STS Adult Cardiac Surgery Database Data Specifications

Version 2.81

This document current as of: 3/28/2014 4:22:29 PM

Note: - ALL fields defined in these specifications with "Core: Yes" are to be collected by all sites.

- A data record must be created for each admission.

- Fields indicated with a gray background are no longer being collected.

STS Adult Cardiac Surgery D	Database	Version: 2.81
Long Name: Software Ve	endor Identifier	SeqNo: 5
Short Name: VendorID		Core: Yes
Section Name: Administrati	ve	Harvest: Yes
DBTableName AdultData		
	ed by STS) given to identify software vendor (up i identification across sites. Changes to Vendor Na	
LowValue: Usua	alRangeLow:	
HighValue: Usua	alRangeHigh:	
Parent Long Name:	Format: Text	
ParentShortName:	DataLength:	
ParentValue:	Data Source: Autom	atic
ParentHarvestCodes:		
Long Name: Software Ve	ersion	SeqNo: 10
Short Name: SoftVrsn		Core: Yes
Section Name: Administration	ve	Harvest: Yes
DBTableName AdultData		
	vare product name and version number identifying	-
	r controls the value in this field. Version passing ouse.	certification/narvest testing will be
record. Vendor noted at warehouse	· · ·	certification/narvest testing will be

HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text
ParentShortName:		DataLength:	
ParentValue:		Data Source:	Automatic
ParentHarvestCodes:			

STS Adult Cardi	ac Surgery Database	Version	: 2.81
Long Name:	STS Data Version	SeqNo:	15
Short Name:	DataVrsn	Core:	Yes
Section Name:	Administrative	Harvest:	Yes

Definition: Version number of the STS Data Specifications/Dictionary, to which each record conforms. It will identify which fields should have data, and what are the valid data for each field. This must be entered into the record automatically by the software.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text
ParentShortName:		DataLength:	
ParentValue:		Data Source:	Automatic
ParentHarvestCodes:			

Long Name:	On-Demand Files Version Number	SeqNo:	20
Short Name:	OnDemandVrsn	Core:	Yes
Section Name:	Administrative	Harvest:	Yes
DRTableName	A dult Data		

DBTableName AdultData

Definition: The version number of the On-Demand lists in use at the time this data record was created or edited. The value is inserted into the record at the time the record is created or is modified by the user. The version numbers will be specified by the STS.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text
ParentShortName:		DataLength:	
ParentValue:		Data Source:	Automatic
ParentHarvestCodes:			

STS Adult Card	iac Surgery Database	Version	: 2.81
Long Name:	Participant ID	SeqNo:	25
Short Name:	ParticID	Core:	Yes
Section Name:	Administrative	Harvest:	Yes

Definition: Participant ID is a unique number assigned to each database participant by the STS. A database participant is defined as one entity that signs a Participation Agreement with the STS, submits one data file to the harvest, and gets back one report on their data. The participant ID must be entered into each record.
Each participant's data if submitted to harvest must be in one data file. If one participant keeps their data in more than one file (e.g. at two sites), then the participant must combine them back into one

file for harvest submission.

If two or more participants share a single purchased software, and enter cases into one database, then the data must be extracted into two different files, one for each participant ID, with each record having the correct participant ID number.

LowValue: 10000	UsualRangeLow:		
HighValue: 39999	UsualRangeHigh:		
Parent Long Name:		Format:	Text - Length exactly 5
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User or Automatic
ParentHarvestCodes:			

Long Name:	Record ID	SeqNo:	30
Short Name:	RecordID	Core:	Yes
Section Name	Administrative	Harvest:	Yes

DBTableName AdultData

Definition: An arbitrary, unique value generated by the software that permanently identifies each record in the participant's database (note that unlike the PatID value, this does not identify the individual patient). The value of the identifier is a combination of a code assigned to the software developer by the STS, and a value generated by the software to create a unique value. Once assigned to a record, this value can never be changed or reused. The data warehouse will use this value to communicate issues about individual records with the participant. It may also be used by the data warehouse to link this record to other clinical data.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text
ParentShortName:		DataLength:	
ParentValue:		Data Source:	Automatic
ParentHarvestCodes:			

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Cost Link	SeqNo: 35
Short Name: CostLink	Core: Yes
Section Name: Administrative	Harvest: Optional

Definition: A participant specified alpha-numeric code that can be used to link this record's clinical data with the participant's cost information for this patient admission. This information may be used in the future to perform procedure cost analysis (for which the actual cost data would have to be harvested separately). The value in this field must not be the patient's Medical Record Number, Social Security Number or any other patient identifying value.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			

Long Name:	Patient ID	SeqNo:	40
Short Name:	PatID	Core:	Yes
Section Name	: Administrative	Harvest:	Yes

DBTableName AdultData

Definition: An arbitrary value (not a recognizable ID like Social Security Number or Medical Record Number) that uniquely and permanently identifies each patient. The value of the identifier is a combination of a code assigned to the software developer by the STS, and a value generated by the software to create a unique value. Once assigned to a patient, this can never be changed or reused. If a patient is admitted to the hospital more than once, each record for that patient will have the same value in this field.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text
ParentShortName:		DataLength:	
ParentValue:		Data Source:	Automatic
ParentHarvestCodes:			

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Patient Participating In STS-Related O	Clinical Trial	SeqNo: 4:
Short Name: ClinTrial		<i>Core:</i> Ye
Section Name: Administrative		Harvest: Ye
DBTableName AdultData		
Definition: Indicate which, if any, STS-related clinic assign a code to each clinical trial as the		the patient is participating. The STS will g data.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name:	Format:	Text (categorical values specified by STS)
ParentShortName:	DataLength:	
ParentValue:	Data Source:	User
ParentHarvestCodes:		
Harvest Codes:		
Code: Value:		
1 None		
2 Trial 1		
3 Trial 2		
4 Trial 3		
5 Trial 4		
6 Trial 5		
7 Trial 6		
I M Defined Descriptions In CTC Delated		
Long Name: Patient Participating In STS-Related C Short Name: ClinTrialPatID	Jinical Irial - Pa	atient ID SeqNo: 40 Core: Ye
Short Name: Chilinaratio		Harvest: Ye
		nurvesi. ie
DBTableName AdultData Definition: Indicate the patient identifier used to ide	ntify the notion ti	in the elipsical trial
	intry the patient i	in the clinical trial.
LowValue: UsualRangeLow:		
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:		T. 4
LowValue: UsualRangeLow:	Format:	Text
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Patient Participating In STS-	Format: T DataLength:	Text
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Patient Participating In STS- Related Clinical Trial		

STS Adult Cardiac Surgery Database		Versio	on: 2.81
Long Name: Patient Last Name		SeqNo:	50
Short Name: PatLName		Core:	Yes
Section Name: Demographics		Harvest:	Optional
DBTableName AdultData			
Definition: Indicate the patient's last name docu compliance with state/local privacy		ord. This field should be collec	eted in
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:	Format: Text		
ParentShortName:	DataLength:		
ParentValue:	Data Source: User		
ParentHarvestCodes:			
Long Name: Patient First Name		SeqNo:	55
Short Name: PatFName		Core:	Yes
Section Name: Demographics		Harvest:	Optional
DBTableName AdultData			
Definition: Indicate the patient's first name doc compliance with state/local privacy		ord. This field should be colle	cted in
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:	Format: Text		
ParentShortName:	DataLength:		
ParentValue:	Data Source: User		
ParentHarvestCodes:			

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Patient Middle Name	SeqNo: 60
Short Name: PatMName	Core: Yes
Section Name: Demographics	Harvest: Optional
DBTableName AdultData	
	ne as documented in the medical record. e. This field should be collected in compliance with state/local
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	Format: Text
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Long Name: Date of Birth	SeqNo: 65
Short Name: DOB	Core: Yes
Section Name: Demographics	Harvest: Optional
DBTableName AdultData	
<i>Definition:</i> Indicate the patient's date of bir compliance with state/local priv	th using 4-digit format for year. This field should be collected in acy laws.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	Format: Date mm/dd/yyyy
ParentShortName:	DataLength:
ParentValue:	Data Source: User

STS Adult Cardiac Surgery Database		Version: 2.81	
Long Name:	Patient Age	SeqNo:	70
Short Name:	Age	Core:	Yes
Section Name: 1	Demographics	Harvest:	Yes

Definition: Indicate the patient's age in years, at time of surgery. This should be calculated from the date of birth and the date of surgery, according to the convention used in the USA (the number of birthdate anniversaries reached by the date of surgery). If age is less than 18, the data record will be accepted into the database, but will not be included in the national analysis and report.

LowValue: 1	UsualRangeLow:	18		
HighValue: 110	UsualRangeHigh:	100		
Parent Long Name:			Format:	Integer
ParentShortName:			DataLength:	
ParentValue:			Data Source:	User or Calculated
ParentHarvestCodes:				

Long Name: Sex			SeqNo: 75
Short Name: Gende	r		Core: Yes
Section Name: Demog	graphics		Harvest: Yes
DBTableName Adult	Data		
Definition: Indicate	the patient's sex at birth as eith	er male or fema	le.
LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			
Harvest Codes:			
Code:	Value:		
1	Male		
2	Female		

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Social Security #	SeqNo: 8
Short Name: SSN	Core: Ye
Section Name: Demographics	Harvest: Optiona
DBTableName AdultData	
the USA, other countries may have	ty Number (SSN). Although this is the Social Security Number in a different National Patient Identifier Number. For example in asurance Number. This field should be collected in compliance
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	Format: Text
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Long Name: Medical Record Number	SeqNo: 8
Short Name: MedRecN	Core: Ye
Section Name: Demographics	Harvest: Optiona
DBTableName AdultData	
Definition: Indicate the patient's medical record should be collected in compliance	d number at the hospital where surgery occurred. This field with state/local privacy laws.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	Format: Text
ParentShortName:	DataLength:
ParentValue:	Data Source: User

STS Adult Card	liac Surgery Database	Vers	ion: 2.81
Long Name:	Patient's Street Address	SeqNo:	90
Short Name:	PatAddr	Core:	Yes
Section Name:	Demographics	Harvest:	Optional
DBTableName	AdultData		
Definition: Indicate the street address at which the patient resides at time of admission. If patient is homeless,			

enter "Homeless".

This field should be collected in compliance with state/local privacy laws.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			

Long Name:	Patient's City	SeqNo: 95
Short Name:	PatCity	Core: Yes
Section Name:	Demographics	Harvest: Optional
DBTableName	AdultData	
Definition: I	ndicate the city in which the patient resides at time of admission.	
ſ	This field should be collected in compliance with state/local privacy laws.	
LowValue:	UsualRangeLow:	
HighValue:	UsualRangeHigh:	
Parent Long N	<i>Iame: Format:</i> Text	

DataLength:

Data Source: User

ParentHarvestCodes:

ParentShortName:

ParentValue:

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STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Patient's Region	SeqNo: 10
Short Name: PatRegion	<i>Core:</i> Ye
Section Name: Demographics	Harvest: Ye
DBTableName AdultData	
<i>Definition:</i> Indicate the region of the count admission.	try (i.e., state or province) in which the patient resides at time of
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	Format: Text
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Long Name: Patient's ZIP Code	SeqNo: 10
Short Name: PatZIP	<i>Core:</i> Ye
Section Name: Demographics	Harvest: Optiona
DBTableName AdultData	
<i>Definition:</i> Indicate the ZIP Code of the pa other names such as Postal Cod	atient's local residence. Outside the USA, this data may be known by de.
This field should be collected in	n compliance with state/local privacy laws.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	Format: Text
	DataLength:
ParentShortName:	DutaLengin.
ParentShortName: ParentValue:	Data Source: User

STS Adult Cardiac Surg	gery Database			Versior	1: 2.81
Long Name: Patient	t's Country			SeqNo:	110
Short Name: PatCon	untry			Core:	No
Section Name: Demog	graphics			Harvest:	No
DBTableName Adult	Data				
Definition: Indicate t	the patient's country of residence	e at time of adn	nission.		
United N	ountries provided by the United ations Statistics Division, 15 A stats.un.org/unsd/methods/m49	pril 2009	-		
This field	d should be collected in complia	ance with state/l	ocal privacy laws.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:		Format:	Text (categorical values	s specified by	STS)
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentHarvestCodes:					
Harvest Codes:					
Code:	<u>Value:</u>				
1	AFGHANISTAN				
2	ÅLAND ISLAND				
3	ALBANIA				
4	ALGERIA				
5	AMERICAN SAMOA				
6	ANDORRA				
7	ANGOLA				
8	ANGUILLA				
9	ANTARCTICA				
10	ANTIGUA AND BARBUDA	L			
11	ARGENTINA				
12	ARMENIA				
13	ARUBA				
14	AUSTRALIA				
15	AUSTRIA				
16	AZERBAIJAN				
17	BAHAMAS				
18	BAHRAIN				
19	BANGLADESH				
20	BARBADOS				

Ouraido	ourg	
	21	BELARUS
	22	BELGIUM
	23	BELIZE
	24	BENIN
	25	BERMUDA
	26	BHUTAN
	27	BOLIVIA (PLURINATIONAL STATE OF)
	28	BOSNIA AND HERZEGOVINA
	29	BOTSWANA
	30	BOUVET ISLAND
	31	BRAZIL
	32	BRITISH INDIAN OCEAN TERRITORY
	33	BRITISH VIRGIN ISLANDS
	34	BRUNEI DARUSSALAM
	35	BULGARIA
	36	BURKINA FASO
	37	BURUNDI
	38	CAMBODIA
	39	CAMEROON
	40	CANADA
	41	CAPE VERDE
	42	CAYMAN ISLANDS
	43	CENTRAL AFRICAN REPUBLIC
	44	CHAD
	45	CHILE
	46	CHINA
	47	CHRISTMAS ISLAND
	48	COCOS (KEELING) ISLANDS
	49	COLOMBIA
	50	COMOROS
	51	CONGO
	52	COOK ISLANDS

- 53 COSTA RICA
- 54 CÔTE D'IVOIRE

- 55 CROATIA56 CUBA
- 57 CYPRUS
- 58 CZECH REPUBLIC
- 59 DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA
- 60 DEMOCRATIC REPUBLIC OF THE CONGO
- 61 DENMARK
- 62 DJIBOUTI
- 63 DOMINICA
- 64 DOMINICAN REPUBLIC
- 65 EAST TIMOR
- 66 ECUADOR
- 67 EGYPT
- 68 EL SALVADOR
- 69 EQUATORIAL GUINEA
- 70 ERITREA
- 71 ESTONIA
- 72 ETHIOPIA
- 73 FAEROE ISLANDS
- 74 FALKLAND ISLANDS (MALVINAS)
- 75 FIJI
- 76 FINLAND
- 77 FRANCE
- 78 FRANCE, METROPOLITAN
- 79 FRENCH GUIANA
- 80 FRENCH POLYNESIA
- 81 FRENCH SOUTHERN TERRITORIES
- 82 GABON
- 83 GAMBIA
- 84 GEORGIA
- 85 GERMANY
- 86 GHANA
- 87 GIBRALTAR
- 88 GREECE
- 89 GREENLAND

- 91 GUADELOUPE
- 92 GUAM

90 GRENADA

- 93 GUATEMALA
- 94 GUERNSE
- 95 GUINEA
- 96 GUINEA-BISSAU
- 97 GUYANA
- 98 HAITI
- 99 HEARD AND MC DONALD ISLANDS
- 100 HOLY SEE
- 101 HONDURAS
- 102 HONG KONG SPECIAL ADMINISTRATIVE REGION OF CHINA
- 103 HUNGARY
- 104 ICELAND
- 105 INDIA
- 106 INDONESIA
- 107 IRAN (ISLAMIC REPUBLIC OF)
- 108 IRAQ
- 109 IRELAND
- 110 ISLE OF MAN
- 111 ISRAEL
- 112 ITALY
- 113 JAMAICA
- 114 JAPAN
- 115 JERSEY
- 116 JORDAN
- 117 KAZAKHSTAN
- 118 KENYA
- 119 KIRIBATI
- 120 KUWAIT
- 121 KYRGYZSTAN
- 122 LAO PEOPLE'S DEMOCRATIC REPUBLIC
- 123 LATVIA

	Jery Dalabase
124	LEBANON
125	LESOTHO
126	LIBERIA
127	LIBYAN ARAB JAMAHIRIYA
128	LIECHTENSTEIN
129	LITHUANIA
130	LUXEMBOURG
131	MACAO SPECIAL ADMINISTRATIVE REGION OF CHINA
132	MADAGASCAR
133	MALAWI
134	MALAYSIA
135	MALDIVES
136	MALI
137	MALTA
138	MARSHALL ISLANDS
139	MARTINIQUE
140	MAURITANIA
141	MAURITIUS
142	MAYOTTE
143	MEXICO
144	MICRONESIA (FEDERATED STATES OF)
145	MONACO
146	MONGOLIA
147	MONTENEGRO
148	MONTSERRAT
149	MOROCCO
150	MOZAMBIQUE
151	MYANMAR
152	NAMIBIA
153	NAURU
154	NEPAL
155	NETHERLANDS
156	NETHERLANDS ANTILLES

- 157 NEW CALEDONIA
- 158 NEW ZEALAND

3		
159	NICARAGUA	
160	NIGER	
161	NIGERIA	
162	NIUE	
163	NORFOLK ISLAND	
164	NORTHERN MARIANA ISLANDS	
165	NORWAY	
166	OCCUPIED PALESTINIAN TERRITORY	
167	OMAN	
168	PAKISTAN	
169	PALAU	
170	PANAMA	
171	PAPUA NEW GUINEA	
172	PARAGUAY	
173	PERU	
174	PHILIPPINES	
175	PITCAIRN	
176	POLAND	
177	PORTUGAL	
178	PUERTO RICO	
179	QATAR	
180	REPUBLIC OF KOREA	
181	REPUBLIC OF MOLDOVA	
182	RÉUNION	
183	ROMANIA	
184	RUSSIAN FEDERATION	
185	RWANDA	
186	SAINT HELENA	
187	SAINT KITTS AND NEVIS	
188	SAINT LUCIA	
189	SAINT PIERRE AND MIQUELON	
190	SAINT VINCENT AND THE GRENADINES	
101	SAINT BARTHÉI EM	

- 191 SAINT-BARTHÉLEM
- 192 SAINT-MARTIN (FRENCH PART)

- 194 SAN MARINO
- 195 SAO TOME AND PRINCIPE
- 196 SAUDI ARABIA
- 197 SENEGAL
- 198 SERBIA
- 199 SEYCHELLES
- 200 SIERRA LEONE
- 201 SINGAPORE
- 202 SLOVAKIA
- 203 SLOVENIA
- 204 SOLOMON ISLANDS
- 205 SOMALIA
- 206 SOUTH AFRICA
- 207 SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS
- 208 SPAIN
- 209 SRI LANKA
- 210 SUDAN
- 211 SURINAME
- 212 SVALBARD AND JAN MAYEN ISLANDS
- 213 SWAZILAND
- 214 SWEDEN
- 215 SWITZERLAND
- 216 SYRIAN ARAB REPUBLIC
- 217 TAIWAN, PROVINCE OF CHINA
- 218 TAJIKISTAN
- 219 THAILAND
- 220 THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA
- 221 TIMOR-LEST
- 222 TOGO
- 223 TOKELAU
- 224 TONGA
- 225 TRINIDAD AND TOBAGO
- 226 TUNISIA

STS Adult Cardiac Surgery Database

227	TURKEY
228	TURKMENISTAN
229	TURKS AND CAICOS ISLANDS
230	TUVALU
231	UGANDA
232	UKRAINE
233	UNITED ARAB EMIRATES
234	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND
235	UNITED REPUBLIC OF TANZANIA
236	UNITED STATES MINOR OUTLYING ISLANDS
237	UNITED STATES OF AMERICA
238	UNITED STATES VIRGIN ISLANDS
239	URUGUAY
240	UZBEKISTAN
241	VANUATU
242	VENEZUELA (BOLIVARIAN REPUBLIC OF)
243	VIET NAM
244	WALLIS AND FUTUNA ISLANDS
245	WESTERN SAHARA
246	YEMEN
247	YUGOSLAVIA
248	ZAIRE
249	ZAMBIA
250	ZIMBABWE
999	OTHER

STS Adult Cardiac Surg	jery Database		Version: 2.8
Long Name: Patient	's Country		SeqNo: 1
Short Name: Patient	tCountry		Core: Y
Section Name: Demog	graphics		Harvest: Option
DBTableName Adultl	Data		
Definition: Indicate t	he patient's country of residence	e at time of adr	nission.
This field	I should be collected in complia	ance with state/	local privacy laws.
LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			
Harvest Codes:			
Code:	Value:		
237	United States Of America		
1	Afghanistan		
14	Australia		
17	Bahamas		
25	Bermuda		
31	Brazil		
40	Canada		
88	Greece		
92	Guam		
93	Guatemala		
105	India		
109	Ireland		
111	Israel		
112	Italy		
113	Jamaica		
114	Japan		
116	Jordan		
143	Mexico		
166	State of Palestine		
173	Peru		
176	Poland		
178	Puerto Rico		
184	Russian Federation		

Short Name: PermAddr Core: Y		Jery Dalabase			1013	. 2.01
225 Trinidad And Tobago 227 Turkey 231 Uganda 233 United Arab Emirates 234 United Kingdom Of Great Britain And Northern Ireland 235 United Republic Of Tanzania 236 United States Minor Outlying Islands 238 United States Virgin Islands 242 Venezuela (Bolivarian Republic Of) 243 Venezuela (Bolivarian Republic Of) 244 Venezuela (Bolivarian Republic Of) 245 Venezuela (Bolivarian Republic Of) 246 Yemen 2 Aland Island 999 Other Long Name: Permatddr <i>Definition:</i> Indicate Whether the patient considers the given address to be their permanent address. LowValue: UsualRangeLow: HighValue: UsualRangeLow: ParentJoorName: Data Source: ParentValue: Data Source: ParentValue: Data Source: ParentValue: Inta Source: Verset Inta Source: ParentValue: Inta Source: ParentValue: Inta Sour	300	Scotland				
227 Turkey 231 Uganda 233 United Arab Emirates 234 United Kingdom Of Great Britain And Northern Ireland 235 United Republic Of Tanzania 236 United States Minor Outlying Islands 238 United States Virgin Islands 242 Venezuela (Bolivarian Republic Of) 244 Venezuela (Bolivarian Republic Of) 245 Venezuela (Bolivarian Republic Of) 246 Yemen 2 Aland Island 999 Other Long Name: PermAddr Section Name: Demographics BTableName AdultData Definition: Indicate whether the patient considers the given address to be their permanent address. LowValue: UsualRangeLow: HighValue: UsualRangeLow: ParentLong Name: Format: ParentValue: Data Source: VarentHarvestCodes: Inta Source: ParentMarvestCodes: Inta Source: Vers Inta Source: VarentHarvestCodes: Inta Source: Intropy Source: Inta Sour	215	Switzerland				
231 Uganda 233 United Arab Emirates 234 United Kingdom Of Great Britain And Northern Ireland 235 United Republic Of Tanzania 236 United States Minor Outlying Islands 238 United States Virgin Islands 242 Venezuela (Bolivarian Republic Of) 246 Yemen 2 Åland Island 999 Other Long Name: PermAddr Section Name: DermAddr Definition: Indicate whether the patient considers the given address to be their permanent address. LowValue: UsualRangeLow: HighValue: UsualRangeLow: HighValue: UsualRangeLow: HighValue: Data Length: ParentMarvestCodes: Data Source: Verest I Yes 2 2 No	225	Trinidad And Tobago				
233 United Arab Emirates 234 United Kingdom Of Great Britain And Northern Ireland 235 United Republic Of Tanzania 236 United States Minor Outlying Islands 237 United States Virgin Islands 238 United States Virgin Islands 241 Venezuela (Bolivarian Republic Of) 246 Yemen 2 Åland Island 999 Other Long Name: PermAddr Section Name: DermAddr Definition: IndicageLow: HighValue: UsualRangeLow: HighValue: UsualRangeLow: HighValue: UsualRangeLow: Parent Long Name: Format: Text (categorical values specified by STS) ParentShortName: Data Length: ParentHarvestCodes: Lata Source: User ParentHarvestCodes: Lata Source: User Itary Sec No No	227	Turkey				
234 United Kingdom Of Great Britain And Northern Ireland 235 United Republic Of Tanzania 236 United States Minor Outlying Islands 238 United States Virgin Islands 242 Venezuela (Bolivarian Republic Of) 246 Yemen 2 Åland Island 999 Other Long Name: Permanent Address SeqNo: 1 Short Name: Demographics Harvest: Y DBTableName AdultData Definition: Indicate whether the patient considers the given address to be their permanent address. LowValue: UsualRangeLow: HighValue: UsualRangeLow: HighValue: DataLength: ParentShortName: Data Source: User ParentHarvestCodes: Harvest Harvest Codes: Intervest United Source: User ParentHarvestCodes: Intervest 1 Yes 2 No	231	Uganda				
Britain And Northern Ireland 235 United Republic Of Tanzania 236 United States Minor Outlying Islands 238 United States Virgin Islands 241 Venezuela (Bolivarian Republic Of) 242 Venezuela (Bolivarian Republic Of) 246 Yemen 2 Åland Island 999 Other Long Name: PermAddr Section Name: Demographics JBTableName AdultData Definition: Indicate whether the patient considers the given address to be their permanent address. LowValue: UsualRangeLow: HighValue: UsualRangeLigh: Parent Long Name: Format: Text (categorical values specified by STS) ParentShortName: Data Source: Image: Data Source: VarentHarvestCodes: Harvest Codes: Harvest Codes: Image: No	233	United Arab Emirates				
236 United States Minor Outlying Islands 238 United States Virgin Islands 242 Venezuela (Bolivarian Republic Of) 246 Yemen 2 Åland Island 999 Other Long Name: PermAddr Short Name: PermAddr Section Name: Demographics BTableName AdultData Definition: Indicate whether the patient considers the given address to be their permanent address. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: ParentLong Name: Format: ParentValue: Data Source: HarvestCodes: Harvest Codes: Kareet Codes: 1 Yes 2 2 No	234					
Islands 238 United States Virgin Islands 242 Venezuela (Bolivarian Republic Of) 246 Yernen 2 Åland Island 999 Other Long Name: Permanent Address SeqNo: 1 Short Name: PermAddr Core: Y Section Name: Demographics Harvest: Y DBTableName AdultData Definition: Indicate whether the patient considers the given address to be their permanent address. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: ParentLong Name: Format: Text (categorical values specified by STS) ParentShortName: DataLength: ParentValue: Data Source: User ParentHarvestCodes: Harvest Codes: $\frac{Code;}{Value;}_{1} Yes$ 2 No	235	United Republic Of Tanzania				
242 Venezuela (Bolivarian Republic Of) 246 Yemen 2 Åland Island 999 Other Long Name: Permanent Address Short Name: PermAddr Core: Y Section Name: Demographics DBTableName AdultData Definition: Indicate whether the patient considers the given address to be their permanent address. LowValue: UsualRangeLow: HighValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Format: ParentShortName: Data Source: ParentHarvestCodes: Harvest Codes: Harvest Codes: 1 Yes 2 1 Yes 2 No	236					
Republic Of) 246 Yemen 2 Åland Island 999 Other Long Name: Permanent Address Short Name: PermAddr Core: Y Short Name: Demographics Harvest: Y DBTableName AdultData Harvest: Y Definition: Indicate whether the patient considers the given address to be their permanent address. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: DataLength: ParentShortName: Data Source: User ParentValue: Data Source: User ParentHarvestCodes: I Yes 1 Yes No	238	United States Virgin Islands				
2 Åland Island 999 Other Long Name: Permanent Address SeqNo: 1 Short Name: PermAddr Core: Y Section Name: Demographics Harvest: Y DBTableName AdultData Harvest: Y Definition: Indicate whether the patient considers the given address to be their permanent address. Harvest: Y LowValue: UsualRangeLow: UsualRangeHigh: Y Y Parent Long Name: Format: Text (categorical values specified by STS) Y ParentShortName: Data Source: User Y ParentHarvestCodes: Harvest User Y Harvest Codes: Y Y Y 1 Yes Y Y 2 No No Y	242					
999 Other Long Name: Permatent Address SeqNo:: 1 Short Name: PermAddr Core: Y Section Name: Demographics Harvest: Y DBTableName AdultData Harvest: Y Definition: Indicate whether the patient considers the given address to be their permanent address. Harvest: Y LowValue: UsualRangeLow: UsualRangeHigh: Harvest: Y Parent Long Name: VisualRangeHigh: Text (categorical values specified by STS) Y ParentShortName: DataLength: ParentHarvestCodes: Harvest Codes: Harvest Que: Value:	246	Yemen				
Long Name: Permanent Address SeqNo: 1 Short Name: PermAddr Core: Y Section Name: Demographics Harvest: Y DBTableName AdultData Definition: Indicate whether the patient considers the given address to be their permanent address. Image: Core: Y LowValue: UsualRangeLow: Image: Core: Y HighValue: UsualRangeHigh: Parent Long Name: Text (categorical values specified by STS) ParentShortName: DataLength: ParentValue: Data Source: User ParentHarvestCodes: Image: Code: Value: 1 Yes 2 No No No No No	2	Åland Island				
Short Name: PermAdr Core: Y Short Name: Demographics Harvest: Y Section Name: Demographics Harvest: Y DBTableName AdultData Definition: Indicate whether the patient considers the given address to be their permanent address. Y Definition: Indicate whether the patient considers the given address to be their permanent address. Y LowValue: UsualRangeLow: Y HighValue: UsualRangeHigh: Y Parent Long Name: Format: Text (categorical values specified by STS) ParentShortName: Data Source: User ParentValue: Data Source: User ParentHarvestCodes: I Yes 1 Yes 2 No	999	Other				
Section Name: Demographics Harvest: Y DBTableName AdultData Definition: Indicate whether the patient considers the given address to be their permanent address. I LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Format: ParentShortName: DataLength: ParentValue: Data Source: UsualRangetigh: UsualRangetigh: ParentValue: Data Source: ParentHarvestCodes: Y In Yes No	Long Name: Perma	nent Address			SeqNo:	120
DBTableName AdultData Definition: Indicate whether the patient considers the given address to be their permanent address. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Format: ParentShortName: DataLength: ParentValue: Data Source: Usuer Usual ParentHarvestCodes: Image: Image: Yalue: 1 Yes 2 No	Short Name: PermA	Addr			Core:	Yes
Definition: Indicate whether the patient considers the given address to be their permanent address. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Format: ParentShortName: DataLength: ParentValue: Data Source: Usue: Usue: ParentHarvestCodes: Value: Itary to codes: Value: 1 Yes 2 No	Section Name: Demog	graphics		H	<i>larvest:</i>	Yes
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Format:ParentShortName:DataLength:ParentValue:Data Source:ParentHarvestCodes:UsualRangeHigh:Harvest Codes:Yalue:1Yes2No	DBTableName Adult	Data				
HighValue:UsualRangeHigh:Format:Text (categorical values specified by STS)Parent Long Name:DataLength:DataLength:ParentName:Data Source:UserParentHarvestCodes:	Definition: Indicate	whether the patient considers th	e given address	to be their permanent add	ress.	
Parent Long Name:Format:Text (categorical values specified by STS)ParentShortName:DataLength:ParentValue:Data Source:Value:Data Source:Harvest Codes:Image: Image: Image	LowValue:	UsualRangeLow:				
ParentShortName:DataLength:ParentValue:Data Source: UserParentHarvestCodes:Harvest Codes:Larvest Codes:Value:1Yes2No	HighValue:	UsualRangeHigh:				
ParentValue: Data Source: User ParentHarvestCodes: Harvest Codes: Value: 1 Yes 2 No	Parent Long Name:		Format:	Text (categorical values s	pecified by S	STS)
ParentHarvestCodes: Harvest Codes: <u>Code:</u> <u>Value:</u> 1 Yes 2	ParentShortName:		DataLength:			
Harvest Codes: <u>Code:</u> Value: 1 Yes 2 No	ParentValue:		Data Source:	User		
Code:Value:1Yes2No	ParentHarvestCodes:					
1 Yes 2 No	Harvest Codes:					
2 No	Code:	Value:				
	1	Yes				
3 Unknown	2	No				
	3	Unknown				

STS Adult Cardiac Surgery Database		Version	: 2.81
Long Name: Patient's Permanent Street Addre	SS	SeqNo:	125
Short Name: PatPermAddr		Core:	No
Section Name: Demographics		Harvest:	No
DBTableName AdultData			
Definition: Indicate the street address at which	the patient permanently resides a	t time of admission.	
This field should be collected in con	mpliance with state/local privacy	laws.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Permanent Address	Format: Text		
ParentShortName: PermAddr	DataLength:		
<i>ParentValue:</i> = "No"	Data Source: User		
ParentHarvestCodes: 2			
Long Name: Patient's Permanent Address City	7	SeqNo:	130
Short Name: PatPermCity		Core:	No
Section Name: Demographics		Harvest:	No
DBTableName AdultData			
Definition: Indicate the city in which the patient	nt permanently resides at time of	admission.	
This field should be collected in con	mpliance with state/local privacy	laws.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Permanent Address	Format: Text		
ParentShortName: PermAddr	DataLength:		
	Data Source: User		
<i>ParentValue:</i> = "No"	Duiu source. Osei		

STS Adult Cardiac Surgery Database			Version	: 2.81
Long Name: Patient's Permanent Address Region			SeqNo:	135
Short Name: PatPermRegion			Core:	Nc
Section Name: Demographics			Harvest:	Nc
DBTableName AdultData				
Definition: Indicate the region of the country (i.e., s time of admission.	tate or province	e) in which the patient p	permanently resi	des at
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Permanent Address	Format:	Text		
ParentShortName: PermAddr	DataLength:			
<i>ParentValue:</i> = "No"	Data Source:	User		
ParentHarvestCodes: 2				
Long Name: Patient's Permanent Address ZIP Cod	e		SeqNo:	140
Short Name: PatPermZIP			Core:	No
Section Name: Demographics			Harvest:	Nc
DBTableName AdultData				
<i>Definition:</i> Indicate the ZIP Code of the patient's perknown by other names such as Postal Cocollect at least up to 10 characters to allo	ode (needing 6	characters). Software s		
This field should be collected in complia	ance with state/	local privacy laws.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Permanent Address	Format:	Text		
ParentShortName: PermAddr	DataLength:			
<i>ParentValue:</i> = "No"	Data Source:	User		
ParentHarvestCodes: 2				

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STS Adult Cardiac Surg	ery Database			Versior	n: 2.81
Long Name: Patient	's Permanent Address Country			SeqNo:	145
Short Name: PatPer	mCountry			Core:	Nc
Section Name: Demog	raphics			Harvest:	Nc
DBTableName AdultI	Data				
Definition: Indicate t	he patient's country of permane	nt residence at	time of admission.		
United Na	ountries provided by the United ations Statistics Division, 15 Ap stats.un.org/unsd/methods/m49/	oril 2009	-		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name: P	ermanent Address	Format:	Text (categorical values	specified by	STS)
ParentShortName: Pe	ermAddr	DataLength:			
ParentValue: =	"No"	Data Source:	User		
ParentHarvestCodes:	2				
Harvest Codes:					
Code:	Value:				
1	AFGHANISTAN				
2	ÅLAND ISLAND				
3	ALBANIA				
4	ALGERIA				
5	AMERICAN SAMOA				
6	ANDORRA				
7	ANGOLA				
8	ANGUILLA				
9	ANTARCTICA				
10	ANTIGUA AND BARBUDA				
11	ARGENTINA				
12	ARMENIA				
13	ARUBA				
14	AUSTRALIA				
15	AUSTRIA				
16	AZERBAIJAN				
17	BAHAMAS				
18	BAHRAIN				
19	BANGLADESH				
20	BARBADOS				
21	BELARUS				
22	BELGIUM				

0 09	
23	BELIZE
24	BENIN
25	BERMUDA
26	BHUTAN
27	BOLIVIA (PLURINATIONAL STATE OF)
28	BOSNIA AND HERZEGOVINA
29	BOTSWANA
30	BOUVET ISLAND
31	BRAZIL
32	BRITISH INDIAN OCEAN TERRITORY
33	BRITISH VIRGIN ISLANDS
34	BRUNEI DARUSSALAM
35	BULGARIA
36	BURKINA FASO
37	BURUNDI
38	CAMBODIA
39	CAMEROON
40	CANADA
41	CAPE VERDE
42	CAYMAN ISLANDS
43	CENTRAL AFRICAN REPUBLIC
44	CHAD
45	CHILE
46	CHINA
47	CHRISTMAS ISLAND
48	COCOS (KEELING) ISLANDS
49	COLOMBIA
50	COMOROS
51	CONGO
52	COOK ISLANDS
53	COSTA RICA
54	CÔTE D'IVOIRE

- 54 CÔTE D'IVOIRE
- 55 CROATIA
- 56 CUBA

57 CYPRUS

- 58 CZECH REPUBLIC
- 59 DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA
- 60 DEMOCRATIC REPUBLIC OF THE CONGO
- 61 DENMARK
- 62 DJIBOUTI
- 63 DOMINICA
- 64 DOMINICAN REPUBLIC
- 65 EAST TIMOR
- 66 ECUADOR
- 67 EGYPT
- 68 EL SALVADOR
- 69 EQUATORIAL GUINEA
- 70 ERITREA
- 71 ESTONIA
- 72 ETHIOPIA
- 73 FAEROE ISLANDS
- 74 FALKLAND ISLANDS (MALVINAS)
- 75 FIJI
- 76 FINLAND
- 77 FRANCE
- 78 FRANCE, METROPOLITAN
- 79 FRENCH GUIANA
- 80 FRENCH POLYNESIA
- 81 FRENCH SOUTHERN TERRITORIES
- 82 GABON
- 83 GAMBIA
- 84 GEORGIA
- 85 GERMANY
- 86 GHANA
- 87 GIBRALTAR
- 88 GREECE
- 89 GREENLAND
- 90 GRENADA
- 91 GUADELOUPE

diac Surg	gery Database
92	GUAM
93	GUATEMALA
94	GUERNSE
95	GUINEA
96	GUINEA-BISSAU
97	GUYANA
98	HAITI
99	HEARD AND MC DONALE ISLANDS
100	HOLY SEE
101	HONDURAS
102	HONG KONG SPECIAL ADMINISTRATIVE REGION OF CHINA
103	HUNGARY
104	ICELAND
105	INDIA
106	INDONESIA
107	IRAN (ISLAMIC REPUBLIC OF)
108	IRAQ
109	IRELAND
110	ISLE OF MAN
111	ISRAEL
112	ITALY
113	JAMAICA
114	JAPAN
115	JERSEY
116	JORDAN
117	KAZAKHSTAN
118	KENYA
119	KIRIBATI

- 120 KUWAIT
- 121 KYRGYZSTAN
- 122 LAO PEOPLE'S DEMOCRATIC REPUBLIC
- 123 LATVIA
- 124 LEBANON
- 125 LESOTHO

STS Adult Cardiac Surgery Database

126	LIBERIA
127	LIBYAN ARAB JAMAHIRIYA
128	LIECHTENSTEIN
129	LITHUANIA
130	LUXEMBOURG
131	MACAO SPECIAL ADMINISTRATIVE REGION OF CHINA
132	MADAGASCAR
133	MALAWI
134	MALAYSIA
135	MALDIVES
136	MALI
137	MALTA
138	MARSHALL ISLANDS
139	MARTINIQUE
140	MAURITANIA
141	MAURITIUS
142	MAYOTTE
143	MEXICO
144	MICRONESIA (FEDERATED STATES OF)
145	MONACO
146	MONGOLIA
147	MONTENEGRO
148	MONTSERRAT
149	MOROCCO
150	MOZAMBIQUE
151	MYANMAR
152	NAMIBIA
153	NAURU
154	NEPAL
155	NETHERLANDS
156	NETHERLANDS ANTILLES
157	NEW CALEDONIA
158	NEW ZEALAND
159	NICARAGUA
1.60	NICER

160 NIGER

- 161 NIGERIA162 NIUE
- 163 NORFOLK ISLAND
- 164 NORTHERN MARIANA ISLANDS
- 165 NORWAY
- 166 OCCUPIED PALESTINIAN TERRITORY
- 167 OMAN
- 168 PAKISTAN
- 169 PALAU
- 170 PANAMA
- 171 PAPUA NEW GUINEA
- 172 PARAGUAY
- 173 PERU
- 174 PHILIPPINES
- 175 PITCAIRN
- 176 POLAND
- 177 PORTUGAL
- 178 PUERTO RICO
- 179 QATAR
- 180 REPUBLIC OF KOREA
- 181 REPUBLIC OF MOLDOVA
- 182 RÉUNION
- 183 ROMANIA
- 184 RUSSIAN FEDERATION
- 185 RWANDA
- 186 SAINT HELENA
- 187 SAINT KITTS AND NEVIS
- 188 SAINT LUCIA
- 189 SAINT PIERRE AND MIQUELON
- 190 SAINT VINCENT AND THE GRENADINES
- 191 SAINT-BARTHÉLEM
- 192 SAINT-MARTIN (FRENCH PART)
- 193 SAMOA
- 194 SAN MARINO

- 196 SAUDI ARABIA
- 197 SENEGAL
- 198 SERBIA
- 199 SEYCHELLES
- 200 SIERRA LEONE
- 201 SINGAPORE
- 202 SLOVAKIA
- 203 SLOVENIA
- 204 SOLOMON ISLANDS
- 205 SOMALIA
- 206 SOUTH AFRICA
- 207 SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS
- 208 SPAIN
- 209 SRI LANKA
- 210 SUDAN
- 211 SURINAME
- 212 SVALBARD AND JAN MAYEN ISLANDS
- 213 SWAZILAND
- 214 SWEDEN
- 215 SWITZERLAND
- 216 SYRIAN ARAB REPUBLIC
- 217 TAIWAN, PROVINCE OF CHINA
- 218 TAJIKISTAN
- 219 THAILAND
- 220 THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA
- 221 TIMOR-LEST
- 222 TOGO
- 223 TOKELAU
- 224 TONGA
- 225 TRINIDAD AND TOBAGO
- 226 TUNISIA
- 227 TURKEY
- 228 TURKMENISTAN

TURKS AND CAICOS ISLANDS
TUVALU
UGANDA
UKRAINE
UNITED ARAB EMIRATES
UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND
UNITED REPUBLIC OF TANZANIA
UNITED STATES MINOR OUTLYING ISLANDS
UNITED STATES OF AMERICA
UNITED STATES VIRGIN ISLANDS
URUGUAY
UZBEKISTAN
VANUATU
VENEZUELA (BOLIVARIAN REPUBLIC OF)
VIET NAM
WALLIS AND FUTUNA ISLANDS
WESTERN SAHARA
YEMEN
YUGOSLAVIA
ZAIRE
ZAMBIA
ZIMBABWE
OTHER

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Race Documented	<i>SeqNo:</i> 150
Short Name: RaceDocumented	Core: Yes
Section Name: Demographics	Harvest: Yes
DBTableName AdultData	
Definition: Indicate whether race is document	nted
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Harvest Codes:	
Code: Value:	
1 Yes	
2 No	
3 Patient declined to disc	close
Long Name: Race - White	SeqNo: 155
Short Name: RaceCaucasian	Core: Yes
Section Name: Demographics	Harvest: Yes
DBTableName AdultData	
refers to a person having origins Africa. It includes people who in	e, as determined by the patient or family, includes White. "White" in any of the original peoples of Europe, the Middle East, or North dicated their race(s) as "White" or reported entries such as Irish, Moroccan, or Caucasian. [The 2010 Census Redistricting Data ile]
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Race Documented	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: RaceDocumented	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
ParentHarvestCodes: 1 Harvest Codes:	
Harvest Codes:	

STS Adult Cardiac Surgery Database Version		Version	: 2.81
Long Name:	Race - Black / African American	SeqNo:	160
Short Name:	RaceBlack	Core:	Yes
Section Name.	Demographics	Harvest:	Yes

Definition: Indicate whether the patient's race, as determined by the patient or family, includes Black / African American. "Black or African American" refers to a person having origins in any of the Black racial groups of Africa. It includes people who indicated their race(s) as "Black, African Am., or Negro" or reported entries such as African American, Kenyan, Nigerian, or Haitian. [The 2010 Census Redistricting Data (Public Law 94-171) Summary File]

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name.	Race Documented	Format:	Text (categorical values specified by STS)
ParentShortName:	RaceDocumented	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCode	<i>es:</i> 1		

Harvest Codes:

Code: Value: 1 Yes 2 No

Long Name:	Race - Asian	SeqNo:	165
Short Name:	RaceAsian	Core:	Yes
Section Name:	Demographics	Harvest:	Yes

DBTableName AdultData

Definition: Indicate whether the patient's race, as determined by the patient or family, includes Asian. "Asian" refers to a person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent, including, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam. It includes people who indicated their race(s) as "Asian" or reported entries such as "Asian Indian", "Chinese", "Filipino", "Korean", "Japanese", "Vietnamese", and "Other Asian" or provided other detailed Asian responses. [The 2010 Census Redistricting Data (Public Law 94-171) Summary File]

LowValue: HighValue: Parent Long Name:	<i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Race Documented	Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	Text (caregorieur varaes speerited ey e 18)
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCodes	:: 1		
Harvest Code	S:		
Cod	e: <u>Value:</u>		
1	Yes		
	2 No		

STS Adult Cardiac Surgery Database		Version	Version: 2.81	
Long Name:	Race - American Indian / Alaskan Native	SeqNo:	170	
Short Name:	RaceNativeAm	Core:	Yes	
Section Name	: Demographics	Harvest:	Yes	
DBTableNam	e AdultData			

Definition: Indicate whether the patient's race, as determined by the patient or family, includes American Indian / Alaskan Native. "American Indian or Alaska Native" refers to a person having origins in any of the original peoples of North and South America (including Central America) and who maintains tribal affiliation or community attachment. This category includes people who indicated their race(s) as "American Indian or Alaska Native" or reported their enrolled or prin¬cipal tribe, such as Navajo, Blackfeet, Inupiat, Yup'ik, or Central American Indian groups or South American Indian groups. [The 2010 Census Redistricting Data (Public Law 94-171) Summary File]

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Race Documented	Format:	Text (categorical values specified by STS)
ParentShortName:	RaceDocumented	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCodes	:: 1		
Harvest Code	S:		
Cod	e: <u>Value:</u>		
1	Yes		
2	2 No		

STS Adult Cardiac Surgery Database		Versior	า: 2.81
Long Name: Race - Native Hawaiian / Pacif	fic Islander	SeqNo:	175
Short Name: RacNativePacific		Core:	Yes
Section Name: Demographics		Harvest:	Yes
DBTableName AdultData			
/ Pacific Islander. "Native Hawai any of the original peoples of Ha who indicated their race(s) as "Pa "Guamanian or Chamorro", "Sam	e, as determined by the patient or family, includ ian or Other Pacific Islander" refers to a person waii, Guam, Samoa, or other Pacific Islands. It acific Islander" or reported entries such as "Nati- noan", and "Other Pacific Islander" or provided 2010 Census Redistricting Data (Public Law 94-	having origin includes peop ve Hawaiian" other detailed	is in le
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Race Documented	Format: Text (categorical values	specified by	STS)
ParentShortName: RaceDocumented	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source: User		
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
Long Name: Race - Other		SeqNo:	180
Short Name: RaceOther		Core:	Yes
Section Name: Demographics		Harvest:	Yes
DBTableName AdultData			
"Some Other Race" includes all o American, American Indian or A	e, as determined by the patient or family, includ other responses not included in the White, Black laska Native, Asian, and Native Hawaiian or Ot [The 2010 Census Redistricting Data (Public La	or African her Pacific Is	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
		specified by	
Parent Long Name: Race Documented	Format: Text (categorical values	speennealog	STS)
Parent Long Name: Race Documented ParentShortName: RaceDocumented	<i>Format:</i> Text (categorical values <i>DataLength:</i>	opeenieu of	STS)
-		specifica cy	STS)
ParentShortName: RaceDocumented	DataLength:		STS)
ParentShortName:RaceDocumentedParentValue:= "Yes"	DataLength:		STS)
ParentShortName: RaceDocumented ParentValue: = "Yes" ParentHarvestCodes: 1	DataLength:		STS)
ParentShortName: RaceDocumented ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes:	DataLength:		STS)

STS Adult Car	diac Surgery Database	Version: 2.81	
Long Name:	Hispanic or Latino or Spanish Ethnicity	SeqNo:	185
Short Name:	Ethnicity	Core:	Yes
Section Name	: Demographics	Harvest:	Yes
DBTableNam	e AdultData		

Definition: Indicate if the patient is of Hispanic, Latino or Spanish ethnicity as reported by the patient / family. "Hispanic, Latino or Spanish" refers to a person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin regardless of race. [The 2010 Census Redistricting Data (Public Law 94-171) Summary File]

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			

Harvest Codes:

<u>Code:</u> <u>Value:</u> 1 Yes 2 No

3 Not Documented Long Name: SeqNo: 195 Referring Card-Cardiologist Short Name: RefCard Core: No Section Name: Demographics Harvest: No DBTableName AdultData Definition: Indicate the referring cardiologist's name. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Format: Text (categorical values specified by User) *ParentShortName:* DataLength: ParentValue: Data Source: User ParentHarvestCodes:

STS Adult Ca	rdiac Surgery Database		Version: 2.8 ²
Long Name:	Referring Physician		SeqNo: 20
Short Name:	RefPhys		Core: N
Section Name	e: Demographics		Harvest: N
DBTableNan	ne AdultData		
Definition:	Indicate the primary referring physic	ian's (PCP) name.	
LowValue: HighValue:	UsualRangeLow: UsualRangeHigh:	E	
Parent Long		Format:	Text (categorical values specified by User)
ParentShortN		DataLength:	
ParentValue.	·	Data Source:	User
Long Name:	Hospital Name		SeqNo: 20
Short Name:	HospName		Core: Ye
Section Name	e: Hospitalization		Harvest: Ye
DBTableNan	ne AdultData		
Definition:	5	1	e was performed. Values should be full, ons in spelling for a single hospital. Values
LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long	Name:	Format:	Text (categorical values specified by User)
ParentShortN	Name:	DataLength:	
ParentValue.	:	Data Source:	User
	(G 1		

ParentHarvestCodes:

STS Adult Cardiac Surgery Database		Version	า: 2.81
Long Name: Hospital ZIP Code		SeqNo:	210
Short Name: HospZIP		Core:	Yes
Section Name: Hospitalization		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate the ZIP Code of the hospital. O such as Postal Code. This field should b			
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Hospital Name	Format:	Text (categorical values specified by	User)
ParentShortName: HospName	DataLength:		

ParentValue:Is Not MissingParentHarvestCodes:Is Not Missing

DataLength: Data Source: Lookup

Long Name: Hospital Ro	egion			SeqNo:	215
Short Name: HospStat				Core:	Yes
Section Name: Hospitaliza	ation			Harvest:	Yes
DBTableName AdultData	L				
Definition: Indicate the re	region of the country (i.e., st	tate or province) in which the hospital is	s located.	
LowValue: Usi	ualRangeLow:				
HighValue: Usi	ualRangeHigh:				
Parent Long Name: Hosp	bital Name	Format:	Text		
ParentShortName: HospM	Name	DataLength:			
ParentValue: Is Not	t Missing	Data Source:	Lookup		

ParentHarvestCodes: Is Not Missing

STS Adult Card	diac Surgery Database	Version:	2.81
Long Name:	Hospital National Provider Identifier	SeqNo:	220
Short Name:	HospNPI	Core:	Yes
Section Name.	: Hospitalization	Harvest:	Yes
DBTableName	e AdultData		

Definition: Indicate the hospital's National Provider Identifier (NPI). This number, assigned by the Center for Medicare and Medicaid Services (CMS), is used to uniquely identify facilities for Medicare billing purposes.

Non-US participants will have a unique hospital ID number assigned by STS.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name.	Hospital Name	Format:	Text (categorical values specified by User)
ParentShortName:	HospName	DataLength:	
ParentValue:	Is Not Missing	Data Source:	Lookup
ParentHarvestCode	es: Is Not Missing		

Long Name: Payor	- Government Health Insurance	e		SeqNo:	225
Short Name: Payor	Gov			Core:	Yes
Section Name: Hospit	alization			Harvest:	Yes
DBTableName Adult	Data				
admission care. This	whether government insurance n. Government insurance refers s includes Medicare, Medicaid, an Health Service.	s to patients who	o are covered by govern	ment-reimbursed	
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:		Format:	Text (categorical value	s specified by S	TS)
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentHarvestCodes:					
Harvest Codes:					
Code:	Value:				
1	Yes				
2	No				

STS Adult Cardiac Surgery Database			Versior	n: 2.81
Long Name: Payor - Government Health Insuranc	e - Medicare		SeqNo:	230
Short Name: PayorGovMcare			Core:	Yes
Section Name: Hospitalization			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate whether the government insura admission included Medicare.	ince used by the	patient to pay for part or	all of this	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Payor - Government Health Insurance	Format:	Text (categorical values	s specified by	STS)
ParentShortName: PayorGov	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Leve Marine Hackle Levence of Claim Number			C M	225
Long Name: Health Insurance Claim Number			SeqNo:	235
Short Name: HICNumber			Core: Harvest:	No
Section Name: Hospitalization			nurvesi.	No
DBTableName AdultData				
<i>Definition:</i> Indicate the Health Insurance Claim (H number that uniquely identifies an indiv compliance with state/local privacy law	vidual for a clain			ligit
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Danaut Long Manual Dovor Covernment Health	Format:	Text - Length exactly 1	1	
Parent Long Name: Payor - Government Health Insurance - Medicare				
	DataLength:	11		
Insurance - Medicare	DataLength: Data Source:			

STS Adult Cardiac Surgery Database			Versior	n: 2.81
Long Name: Payor - Government Health Insurat	nce - Medicare - F	See For Service	SeqNo:	240
Short Name: PayorGovMcareFFS			Core:	Yes
Section Name: Hospitalization			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate if patient is covered by Medi	icare Fee for Servi	ce (Medicare Part B).		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Payor - Government Health Insurance - Medicare	Format:	Text (categorical va	lues specified by	STS)
ParentShortName: PayorGovMcare	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Payor - Government Health Insurat	nce - Medicaid		SeqNo:	245
Short Name: PayorGovMcaid			Core:	Yes
Section Name: Hospitalization			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate whether the government insu admission included Medicaid.	arance used by the	patient to pay for par	t or all of this	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Payor - Government Health Insurance	Format:	Text (categorical va	lues specified by	STS)
ParentShortName: PayorGov	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database			Version	n: 2.81
Long Name: Payor - Government Health Insurand	ce - Military He	ealth Care	SeqNo:	25
Short Name: PayorGovMil			Core:	Ye
Section Name: Hospitalization			Harvest:	Ye
DBTableName AdultData				
Definition: Indicate whether the government insur admission included Military Health Ca		e patient to pay for p	part or all of this	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Payor - Government Health Insurance	Format:	Text (categorical	values specified by	STS)
ParentShortName: PayorGov	DataLength	:		
<i>ParentValue:</i> = "Yes"	Data Source	e: User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Payor - Government Health Insurance	e - State-Sneci	fic Plan	SeqNo:	255
Short Name: PayorGovState	te state speer		Core:	Yes
Section Name: Hospitalization			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the government insur admission included State-Specific Plan				
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Payor - Government Health Insurance	Format:	Text (categorical	values specified by	STS)
ParentShortName: PayorGov	DataLength	:		
<i>ParentValue:</i> = "Yes"	Data Source	e: User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				

STS Adult Cardiac Surgery Database			Versior	n: 2.81
Long Name: Payor - Government Health Insurand	ce - Indian Healtl	n Service	SeqNo:	260
Short Name: PayorGovIHS			Core:	Yes
Section Name: Hospitalization			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the government insur admission included Indian Health Serv		patient to pay for part	or all of this	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Payor - Government Health Insurance	Format:	Text (categorical val	ues specified by	STS)
ParentShortName: PayorGov	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
<i>Long Name:</i> Payor - Government Health Insurance	ce - Correctional	Facility	SeqNo:	265
Short Name: PayorGovCor			Core:	Yes
Section Name: Hospitalization			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate whether the government insuradmission included a state or federal co			or all of this	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Payor - Government Health Insurance	Format:	Text (categorical val	ues specified by	STS)
ParentShortName: PayorGov	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
<u>Code:</u> <u>Value:</u> 1 Yes				

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Payor - Government Health Insu	rance - Other SeqNo: 270
Short Name: PayorGovOth	<i>Core:</i> Yes
Section Name: Hospitalization	Harvest: Yes
DBTableName AdultData	
Definition: Indicate whether the government in admission included some other gov	surance used by the patient to pay for part or all of this ernment plan.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Payor - Government Healt Insurance	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: PayorGov	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes:	
Code: Value:	
1 Yes	
2 No	
Long Name: Payor - Commercial Health Insu	rance SeqNo: 275
Short Name: PayorCom	Core: Yes
Section Name: Hospitalization	Harvest: Yes
DBTableName AdultData	
	nce was used by the patient to pay for part or all of this efers to all indemnity (fee-for-service) carriers and Preferred g., Blue Cross and Blue Shield).
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Harvest Codes:	
<u>Code:</u> <u>Value:</u>	
1 Yes	
2 No	

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Payor - Health Maintenance Org	ganization SeqNo: 280
Short Name: PayorHMO	Core: Yes
Section Name: Hospitalization	Harvest: Yes
DBTableName AdultData	
pay for part or all of this admission	nance Organization (HMO) insurance was used by the patient to n. HMO refers to a Health Maintenance Organization vides health care services for members on a pre-paid basis.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Harvest Codes:	
Code: Value:	
1 Yes	
2 No	
Long Name: Payor - Non-U.S. Insurance	SeqNo: 285
Short Name: PayorNonUS	<i>Core:</i> Yes
Section Name: Hospitalization	Harvest: Yes
DBTableName AdultData	
	urance was used by the patient to pay for part or all of this
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Harvest Codes:	
Code: Value:	
1 Yes	

STS Adult Cardiac Surgery Database		Version: 2	2.81
Long Name:	Payor - None / Self	SeqNo:	290
Short Name:	PayorNS	Core:	Yes
Section Name:	: Hospitalization	Harvest:	Yes

Definition: Indicate whether no insurance was used by the patient to pay for this admission. None refers to individuals with no or limited health insurance; thus, the individual is the payor regardless of ability to pay. Only mark "None" when "self" or "none" is denoted as the first insurance in the medical record.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			

Harvest Codes:

Code: Value: 1 Yes

2 No

Long Name: Arrival Date			SeqNo:	295
Short Name: ArrivalDt			Core:	No
Section Name: Hospitalization			Harvest:	No
DBTableName AdultData				
Definition: Indicate the date the patient arrived at years	our facility.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name:	Format:	Date mm/dd/yyyy		
ParentShortName:	DataLength:			
ParentValue:	Data Source:	User		
ParentHarvestCodes:				

STS Adult Cardiac Surgery Database	Version: 2	2.81
Long Name: Arrival Time	SeqNo:	300
Short Name: ArrivalTm	Core:	No
Section Name: Hospitalization	Harvest:	Nc
DBTableName AdultData		
Definition: Indicate the time the patien	at arrived at your facility.	
If the patient came to your documented, code the sche	facility for an elective or outpatient procedure and the time was not eduled time of arrival.	
LowValue: UsualRangeLow	<i>?:</i>	
HighValue: UsualRangeHigh	h:	
Parent Long Name:	<i>Format:</i> Time in 24-hour hh:mm format	
ParentShortName:	DataLength:	
ParentValue:	Data Source: User	
ParentHarvestCodes:		305
ParentHarvestCodes: Long Name: Date of Admission	SeqNo:	305 Yes
ParentHarvestCodes: Long Name: Date of Admission Short Name: AdmitDt		305 Yes Yes
ParentHarvestCodes: Long Name: Date of Admission Short Name: AdmitDt Section Name: Hospitalization	SeqNo: Core:	Yes
ParentHarvestCodes: Long Name: Date of Admission Short Name: AdmitDt Section Name: Hospitalization DBTableName AdultData Definition: Indicate the Date of Admission	SeqNo: Core:	Yes Yes
ParentHarvestCodes: Long Name: Date of Admission Short Name: AdmitDt Section Name: Hospitalization DBTableName AdultData Definition: Indicate the Date of Admission	SeqNo: Core: Harvest: ssion. For those patients who originally enter the hospital in an out-patient), the admit date is the date the patient's status changes to in-patient.	Yes Yes
ParentHarvestCodes: Long Name: Date of Admission Short Name: AdmitDt Section Name: Hospitalization DBTableName AdultData Definition: Indicate the Date of Admiss capacity (i.e., catheterization	SeqNo: Core: Harvest: ssion. For those patients who originally enter the hospital in an out-pation), the admit date is the date the patient's status changes to in-patient.	Yes Yes
ParentHarvestCodes: Long Name: Date of Admission Short Name: AdmitDt Section Name: Hospitalization DBTableName AdultData Definition: Indicate the Date of Admiss capacity (i.e., catheterization LowValue: UsualRangeLow	SeqNo: Core: Harvest: ssion. For those patients who originally enter the hospital in an out-pation), the admit date is the date the patient's status changes to in-patient.	Yes Yes
ParentHarvestCodes: Long Name: Date of Admission Short Name: AdmitDt Section Name: Hospitalization DBTableName AdultData Definition: Indicate the Date of Admiss capacity (i.e., catheterization LowValue: UsualRangeLow HighValue: UsualRangeHight	SeqNo: Core: Harvest: ssion. For those patients who originally enter the hospital in an out-patient), the admit date is the date the patient's status changes to in-patient.	Yes Yes
ParentHarvestCodes: Long Name: Date of Admission Short Name: AdmitDt Section Name: Hospitalization DBTableName AdultData Definition: Indicate the Date of Admiss capacity (i.e., catheterization LowValue: UsualRangeLow HighValue: UsualRangeHigh Parent Long Name: UsualRangeHigh	SeqNo: Core: Harvest: ssion. For those patients who originally enter the hospital in an out-pation), the admit date is the date the patient's status changes to in-patient. p: h: Format: Date mm/dd/yyyy	Yes Yes

STS Adult Cardiac Surgery Database			Version	: 2.81
Long Name: Date of Surgery			SeqNo:	310
Short Name: SurgDt			Core:	Yes
Section Name: Hospitalization			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the date of index cardiac surgica the initial major cardiac surgical procedu			ocedure is defin	ed as
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name:	Format:	Date mm/dd/yyyy		
ParentShortName:	DataLength:			
ParentValue:	Data Source:	User		
ParentHarvestCodes:				
Long Name: Date of Discharge			SeqNo:	315
Short Name: DischDt			Core:	Yes
Section Name: Hospitalization			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate the date the patient was discharge going to a rehab or hospice or similar expatient died in the hospital, the discharge	tended care uni	t within the same physi		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name:	Format:	Date mm/dd/yyyy		
ParentShortName:	DataLength:			
ParentValue:	Data Source:	User		
ParentHarvestCodes:				

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Admit Source	SeqNo: 320
Short Name: AdmitSrc	Core: Yes
Section Name: Hospitalization	Harvest: Yes
DBTableName AdultData	
Definition: Indicate the source of admission for	the patient to your facility.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Harvest Codes and Value Definitions:	
Code: Value:	Definition:
1 Elective Admission	
2 Emergency Department	The patient came to the facility for this episode of care via the emergency department (excludes transfers from other facilities).
3 Transfer in from another hospital / acute care facili	ty The patient was transferred from another acute care facility (even if he/she was transferred to the emergency department) for this episode of care.
4 Other	The patient came to the facility for this episode of care by any other means. This includes transfers from non- acute care facilities.
<i>Long Name:</i> Other Hospital Performs Cardiac	Surgery SeqNo: 325
Short Name: OthHosCS	Core: Yes
Section Name: Hospitalization	Harvest: Yes
DBTableName AdultData	
<i>Definition:</i> The transferring hospital has the nec cardiac surgery.	essary personnel and facilities to have been able to perform
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Admit Source	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: AdmitSrc	DataLength:
<i>ParentValue:</i> = "Transfer in from another hospital / acute care facility"	Data Source: User
ParentHarvestCodes: 3	
Harvest Codes:	
Harvest Codes: <u>Code:</u> <u>Value:</u>	

STS Adult Cardiac Surgery Database	Version	n: 2.81	
2 No			
Long Name: Height (cm)		SeqNo:	330
Short Name: HeightCm		Core:	Yes
Section Name: Risk Factors		Harvest:	Yes
<i>DBTableName</i> AdultData <i>Definition:</i> Indicate the height of the patient in c	entimeters.		
LowValue: 20.0 UsualRangeLow: 122.0			
HighValue: 251.0 UsualRangeHigh: 213.0			
Parent Long Name:	Format: Real		
ParentShortName:	DataLength:		
ParentValue:	Data Source: User		
ParentHarvestCodes:			
Long Name: Weight (kg)		SeqNo:	335
		C	37

Long Name:	Weight (kg)				SeqNo:	335
Short Name:	WeightKg				Core:	Yes
Section Name: I	Risk Factors				Harvest:	Yes
DBTableName	AdultData					
Definition: Inc	licate the weight of the patier	nt in kilograms cl	osest to	the date of procedure.		
LowValue: 10.	.0 UsualRangeLow: 4	40.0				
HighValue: 25	0.0 UsualRangeHigh: 1	170.0				
Parent Long Nat	me:	Forma	t:	Real		
ParentShortNan	ie:	DataL	ength:			
ParentValue:		Data S	ource:	User		
ParentHarvestC	odes:					

STS Adult Cardiac Surgery Database		Version	: 2.81
Long Name: Cigarette Smoker		SeqNo:	340
Short Name: CigSmoker		Core:	No
Section Name: Risk Factors		Harvest:	No
DBTableName AdultData			
Definition: Indicate if the patient has smoked c	igarettes anytime du	ring the year prior to surgery.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:	Format:	Text (categorical values specified by S	STS)
ParentShortName:	DataLength:		
ParentValue:	Data Source:	User	
ParentHarvestCodes:			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
Long Name: Cigarette Smoker Current		SeqNo:	345
Short Name: CigSmokerCurr		Core:	No
Section Name: Risk Factors		Harvest:	No
DBTableName AdultData			
Definition: Indicate whether the patient smoked	d cigarettes within tw	wo weeks prior to procedure.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Cigarette Smoker	Format:	Text (categorical values specified by S	STS)
ParentShortName: CigSmoker	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			

STS Adult Cardiac Surgery Database	Vers	ion: 2.81
Long Name: Other Tobacco Use	SeqNo:	350
Short Name: OthTobUse	Core:	No
Section Name: Risk Factors	Harvest:	No
DBTableName AdultData		
<i>Definition:</i> Current or previous use of any tobachewing tobacco.	acco product other than cigarettes, including cigars, pipes	, and
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name:	Format: Text (categorical values specified	by STS)
ParentShortName:	DataLength:	
ParentValue:	Data Source: User	
ParentHarvestCodes:		
Harvest Codes:		
<u>Code:</u> Value:		
1 Yes		
2 No		
Long Name: RF-Family History of Premature	e CAD SeqNo:	355
Long Hume. It Fulling History of Freihauture	1	
Short Name: FHCAD	Core:	Yes
	_	Yes Yes
Short Name: FHCAD	Core:	
Short Name:FHCADSection Name:Risk FactorsDBTableNameAdultData	Core: Harvest: et blood relatives (parents, siblings, children) who have h for female relatives:	Yes
 Short Name: FHCAD Section Name: Risk Factors DBTableName AdultData Definition: Indicate if the patient has any direct of the following at age <55 y for male relatives or <65 y f Angina Acute MI Sudden cardiac death without of CABG surgery PCI 2013 ACCF/AHA Data Standards 	Core: Harvest: et blood relatives (parents, siblings, children) who have h for female relatives:	Yes
 Short Name: FHCAD Section Name: Risk Factors DBTableName AdultData Definition: Indicate if the patient has any direct of the following at age <55 y for male relatives or <65 y f Angina Acute MI Sudden cardiac death without of CABG surgery PCI 2013 ACCF/AHA Data Standards Cannon et al. JACC Vol. 61, No. 9 	Core: Harvest: et blood relatives (parents, siblings, children) who have h for female relatives:	Yes
Short Name:FHCADSection Name:Risk FactorsDBTableNameAdultDataDefinition:Indicate if the patient has any direct of the following at age <55 y for male relatives or <65 y ft • Angina • Acute MI • Sudden cardiac death without of • CABG surgery • PCI 2013 ACCF/AHA Data Standards Cannon et al. JACC Vol. 61, No. 9LowValue:UsualRangeLow:	Core: Harvest: et blood relatives (parents, siblings, children) who have h for female relatives:	Yes ad any
Short Name:FHCADSection Name:Risk FactorsDBTableNameAdultDataDefinition:Indicate if the patient has any direct of the following at age <55 y for male relatives or <65 y f • Angina • Acute MI • Sudden cardiac death without of • CABG surgery • PCI 2013 ACCF/AHA Data Standards Cannon et al. JACC Vol. 61, No. 9LowValue:UsualRangeLow: UsualRangeHigh:	<i>Core:</i> <i>Harvest:</i> et blood relatives (parents, siblings, children) who have h for female relatives:	Yes ad any
Short Name: FHCAD Section Name: Risk Factors DBTableName AdultData Definition: Indicate if the patient has any direct of the following at age <55 y for male relatives or <65 y ft	Core: Harvest: et blood relatives (parents, siblings, children) who have h for female relatives: ovious cause 0, 2013 <i>Format:</i> Text (categorical values specified	Yes ad any
Short Name: FHCAD Section Name: Risk Factors DBTableName AdultData Definition: Indicate if the patient has any direct of the following at age <55 y for male relatives or <65 y f	Core: Harvest: et blood relatives (parents, siblings, children) who have h for female relatives: ovious cause 0, 2013 Format: Text (categorical values specified DataLength:	Yes ad any
Short Name: FHCAD Section Name: Risk Factors DBTableName AdultData Definition: Indicate if the patient has any direct of the following at age <55 y for male relatives or <65 y f	Core: Harvest: et blood relatives (parents, siblings, children) who have h for female relatives: ovious cause 0, 2013 Format: Text (categorical values specified DataLength:	Yes ad any
Short Name: FHCAD Section Name: Risk Factors DBTableName AdultData Definition: Indicate if the patient has any direct of the following at age <55 y for male relatives or <65 y f	Core: Harvest: et blood relatives (parents, siblings, children) who have h for female relatives: ovious cause 0, 2013 Format: Text (categorical values specified DataLength:	Yes ad any
Short Name: FHCAD Section Name: Risk Factors DBTableName AdultData Definition: Indicate if the patient has any direct of the following at age <55 y for male relatives or <65 y f	Core: Harvest: et blood relatives (parents, siblings, children) who have h for female relatives: ovious cause 0, 2013 Format: Text (categorical values specified DataLength:	Yes ad any

STS Adult Cardiac Surgery Database

3 Unknown

Long Name: RI	F-Diabetes		SeqNo:	360
Short Name: D	iabetes		Core:	Yes
Section Name: Ri	sk Factors		Harvest:	Yes
DBTableName A	dultData			
Asso docu 1. He 2. Fa 3. 2- 4. In gluce (11.1 This 2013	bociation criteria include imentation of the following: emoglobin A1c >=6.5%; or asting plasma glucose >=126 h Plasma glucose >=200 mg a patient with classic sympto ose >=200 mg/dL 1 mmol/L) does not include gestational B ACCF/AHA Data Standard	mg/dL (7.0 mmol/L); /dL (11.1 mmol/L) dur oms of hyperglycemia diabetes. s	or ing an oral glucose tolerance test; or or hyperglycemic crisis, a random pla	
LowValue:	non et al. JACC Vol. 61, No. UsualRangeLow:	9, 2015		
HighValue:	UsualRangeHigh:			
Parent Long Nam	e:	Format:	Text (categorical values specified by	STS)
ParentShortName	:	DataLength:		
ParentValue:		Data Source:	User	
ParentHarvestCod	des:			
Harvest Co	des:			
<u>C</u>	ode: Value:			
	1 Yes			
	2 No			

STS Adult Card	Jiac Surgery Database	Version:	2.81
Long Name:	RF-Diabetes-Control	SeqNo:	365
Short Name:	DiabCtrl	Core:	Yes
Section Name.	· Risk Factors	Harvest:	Yes

Definition: Indicate the patient's diabetes control method as presented on admission. Patients placed on a preprocedure diabetic pathway of insulin drip at admission but whose diabetes was controlled by diet or oral methods are not coded as being treated with insulin.

Choose the most aggressive therapy from the order below

- Insulin: insulin treatment (includes any combination with insulin)
- Other subcutaneous medications (e.g., GLP-1 agonist)
- Oral: treatment with oral agent (includes oral agent with or without diet treatment)
- Diet only: Treatment with diet only
- None: no treatment for diabetes
- Other: other adjunctive treatment, non-oral/insulin/diet
- Unknown

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LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	RF-Diabetes	Format:	Text (categorical values specified by STS)
ParentShortName:	Diabetes	DataLength:	
ParentValue:	= "Yes"	Data Source:	User

ParentHarvestCodes: 1

Harvest Codes and Value Definitions:

Code:	Value:	Definition:
1	None	No treatment for diabetes.
2	Diet only	Treatment with diet only
3	Oral	Treatment with oral agent (includes oral agent with or without diet treatment)
4	Insulin	Insulin treatment (includes any combination with insulin)
6	Other subcutaneous medication	Other subcutaneous medications (such as GLP-1 agonists; Byetta,Bydureon,Victoza,Symlin)
5	Other	Other adjunctive treatment, non-oral/insulin/diet
7	Unknown	

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: RF-Dyslipidemia		SeqNo: 370
Short Name: Dyslip		Core: Yes
Section Name: Risk Factors		Harvest: Yes
DBTableName AdultData		
 Definition: Indicate if the patient has a history of NCEP criteria include documentation of the following: Total cholesterol >200 mg/dL (5.13) LDL >=130 mg/dL (3.37 mmol/L) HDL <40 mg/dL (1.04 mmol/L) in Currently receiving antilipidemic to 2013 ACCF/AHA Data Standards Cannon et al. JACC Vol. 61, No. 9, 2 	8 mmol/L); or ; men and <50 mg/dL (1.30 mmo reatment	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name:	Format: Text (categor	rical values specified by STS)
ParentShortName:	DataLength:	
ParentValue:	Data Source: User	
ParentHarvestCodes:		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
3 Unknown		
Long Name: RF-Renal Fail-Dialysis		SeqNo: 375
Short Name: Dialysis		<i>Core:</i> Yes
Section Name: Risk Factors		Harvest: Yes
DBTableName AdultData		
Definition: Indicate whether the patient is curren	tly (prior to surgery) undergoing	dialysis.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name:	Format: Text (categor	rical values specified by STS)
ParentShortName:	DataLength:	
ParentValue:	Data Source: User	
ParentHarvestCodes:		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		

3 Unknown

Long Name:	RF-Hypertension	SeqNo:	380
Short Name:	Hypertn	Core:	Yes
Section Name:	Risk Factors	Harvest:	Yes

DBTableName AdultData

Definition: Indicate if the patient has a current diagnosis of hypertension defined by any 1 of the following:

• History of hypertension diagnosed and treated with medication, diet, and/or exercise

 Prior documentation of blood pressure >140 mm Hg systolic and/or 90 mm Hg diastolic for patients without diabetes or chronic kidney disease, or prior documentation of blood pressure >130 mm Hg systolic or 80 mm Hg diastolic on at least 2 occasions for patients with diabetes or chronic kidney disease
 Currently undergoing pharmacological thermap for treatment of humertension

• Currently undergoing pharmacological therapy for treatment of hypertension 2013 ACCF/AHA Data Standards Cannon et al. JACC Vol. 61, No. 9, 2013

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	1	Format:	Text (categorical values specified by STS)
ParentShortName:	1	DataLength:	
ParentValue:	1	Data Source:	User
ParentHarvestCodes:			
Harvest Codes:			
Code:	<u>Value:</u>		
1	Yes		
2	No		
3	Unknown		

STS Adult Cardiac Surgery Database	Version:	2.81
Long Name: RF- Endocarditis	SeqNo:	385
Short Name: InfEndo	Core:	Yes
Section Name: Risk Factors	Harvest:	Yes

Definition: Indicate whether the patient has a history of endocarditis:

Endocarditis must meet at least 1 of the following criteria: 1. Patient has organisms cultured from valve or vegetation. 2. Patient has 2 or more of the following signs or symptoms: fever (>38°C), new or changing murmur*, embolic phenomena*, skin manifestations* (i.e., petechiae, splinter hemorrhages, painful subcutaneous nodules), congestive heart failure*, or cardiac conduction abnormality* * With no other recognized cause and at least 1 of the following: a. organisms cultured from 2 or more blood cultures b. organisms seen on Gram's stain of valve when culture is negative or not done c. valvular vegetation seen during an invasive procedure or autopsy d. positive laboratory test on blood or urine (e.g., antigen tests for H influenzae, S pneumoniae, N meningitidis, or Group B Streptococcus) e. evidence of new vegetation seen on echocardiogram and if diagnosis is made antemortem, physician institutes appropriate antimicrobial therapy. CDC, January 2013 Choose "Yes" for patients with pre-operative endocarditis who begin antibiotics post-op. Code yes for patients who are diagnosed intraoperatively.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			
Harvest Codes:			
Code:	Value:		
1	Yes		
2	No		

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: RF-Infect Endocard Type		SeqNo: 390
Short Name: InfEndTy		Core: Yes
Section Name: Risk Factors		Harvest: Yes
DBTableName AdultData		
<i>Definition:</i> Indicate the type of endocarditis the pendocarditis, the disease is considered medication) is being given at the time	d active. If no antil	biotic medication (other than prophylactic
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: RF- Endocarditis	Format:	Text (categorical values specified by STS)
ParentShortName: InfEndo	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Treated		
2 Active		
Long Name: RF-Infect Endocard Culture		SeqNo: 395
Short Name: InfEndCult		Core: Yes
Section Name: Risk Factors		Harvest: Yes
DBTableName AdultData		
Definition: Indicate culture results (may use cult	ures obtained in the	e OR).
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: RF- Endocarditis	Format:	Text (categorical values specified by STS)
ParentShortName: InfEndo	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
ParentHarvestCodes: 1 Harvest Codes:		
Harvest Codes:		
Harvest Codes: <u>Code:</u> <u>Value:</u>		
Harvest Codes: <u>Code:</u> Value: 1 Culture negative 2 Staphylococcus aureus		
Harvest Codes: <u>Code:</u> Value: 1 Culture negative 2 Staphylococcus aureus		
Harvest Codes: <u>Code:</u> Value: 1 Culture negative 2 Staphylococcus aureus 3 Streptococcus species 4 Coagulase negative		

STS Adult Cardiac Surgery Database

	Jery Database			Ver31011	. 2.01
7	Other				
8	Unknown				
Long Name: RF-To	bacco Use			SeqNo:	400
Short Name: Tobac	coUse			Core:	Yes
Section Name: Risk Fa	actors			Harvest:	Yes
DBTableName Adult	Data				
including hookah, e	current (within 30 days prior to g Cigarettes, Pipe, Cigars, Smoletc.).Meaningful Use Definition ww.healthit.gov/providers-prof status	keless Cans, Otl n	ner tobacco products (ort	os, strips, sticks	
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:		Format:	Text (categorical value	s specified by S	STS)
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentHarvestCodes:					
Harvest Codes:					
Code:	Value:				
1	Never smoker				
2	Current every day smoker				
3	Current some day smoker				
4	Smoker, current status (frequency) unknown				
5	Former smoker				

6 Smoking status unknown

STS Adult Cardiac Surgery Database		Version	: 2.81
Long Name:	RF-Chronic Lung Disease	SeqNo:	405
Short Name:	ChrLungD	Core:	Yes
Section Name:	Risk Factors	Harvest:	Yes

Definition: Indicate whether the patient has chronic lung disease, and the severity level according to the following classification:

No;

Mild: FEV1 60% to 75% of predicted, and/or on chronic inhaled or oral bronchodilator therapy. Moderate: FEV1 50% to 59% of predicted, and/or on chronic steroid therapy aimed at lung disease. Severe: FEV1 < 60 or Room Air pCO2 > 50. CLD present, severity not documented

Unknown

A history of chronic inhalation reactive disease (asbestosis, mesothelioma, black lung disease or pneumoconiosis) may qualify as chronic lung disease. Radiation induced pneumonitis or radiation fibrosis also qualifies as chronic lung disease. (if above criteria is met) A history of atelectasis is a transient condition and does not qualify.

Chronic lung disease can include patients with chronic obstructive pulmonary disease, chronic bronchitis, or emphysema. It can also include a patient who is currently being chronically treated with inhaled or oral pharmacological therapy (e.g., beta-adrenergic agonist, anti-inflammatory agent, leukotriene receptor antagonist, or steroid). Patients with asthma or seasonal allergies are not considered to have chronic lung disease.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			

Harvest Codes:

Code: Value:

- 1 No
- 2 Mild
- 3 Moderate
- 4 Severe
- 5 Lung disease documented, severity unknown
- 6 Unknown

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: RF-Chronic Lung Disease - Type		<i>SeqNo:</i> 410
Short Name: ChrLungDType		Core: Yes
Section Name: Risk Factors		Harvest: Yes
DBTableName AdultData		
Definition: Indicate the type of chronic lung disease	е.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: RF-Chronic Lung Disease	Format:	Text (categorical values specified by STS)
ParentShortName: ChrLungD	DataLength:	
<i>ParentValue:</i> = "Mild", "Moderate" or "Severe"	Data Source:	User
ParentHarvestCodes: 2 3 4		
Harvest Codes:		
Code: Value:		
1 Obstructive		
2 Reactive		
3 Interstitial Fibrosis		
4 Other		
5 Multiple		
6 Not Documented		
Long Name: RF-Pulmonary Function Test		SeqNo: 415
Short Name: PFT		<i>Core:</i> Yes
Section Name: Risk Factors		Harvest: Yes
DBTableName AdultData		
Definition: Indicate whether pulmonary function tea	sts were perform	ned.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name:	Format:	Text (categorical values specified by STS)
ParentShortName:	DataLength:	
ParentValue:	Data Source:	User
ParentHarvestCodes:		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		

STS Adult Cardiac Surgery Database			Versior	n: 2.81
Long Name: RF-Forced Expiratory Volume Predia	cted		SeqNo:	42
Short Name: FEV1			Core:	Ye
Section Name: Risk Factors			Harvest:	Ye
DBTableName AdultData				
Definition: Indicate the FEV1 % predicted from the Choose the highest value reported for %				e.
LowValue: 1 UsualRangeLow:				
HighValue: 200 UsualRangeHigh:				
Parent Long Name: RF-Pulmonary Function Test	Format:	Integer		
ParentShortName: PFT	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Long Name: DLCO Test Performed			SeqNo:	42:
Short Name: DLCO			Core:	Ye
Section Name: Risk Factors			Harvest:	Ye
DBTableName AdultData				
Definition: Indicate whether a lung diffusion test (I	DLCO) was perf	ormed.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: RF-Pulmonary Function Test	Format:	Text (categorical	values specified by	STS)
ParentShortName: PFT	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database		Versior	n: 2.81
Long Name: DLCO Predicted		SeqNo:	430
Short Name: DLCOPred		Core:	Yes
Section Name: Risk Factors		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the % predicted DLC highest % predicted whether		tient. Choose the value that represent) or the DLCO/VA.	ts the
LowValue: 10 UsualRangeLow:			
HighValue: 200 UsualRangeHigh:			
Parent Long Name: DLCO Test Performe	d Format: 1	Integer	
ParentShortName: DLCO	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source: 1	User	
ParentHarvestCodes: 1			
Long Name: RF-Arterial Blood Gas		SeqNo:	435
Short Name: ABG		Core:	Yes
Section Name: Risk Factors		Harvest:	Yes
DBTableName AdultData			
		med prior to surgery. Answer no if th was receiving supplemental oxygen.	e only
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:	Format:	Text (categorical values specified by	STS)
ParentShortName:	DataLength:		
ParentValue:	Data Source: \	User	
ParentHarvestCodes:			
Harvest Codes:			
Code: Value:			
1 Yes			

STS Adult Cardiac Surgery Database			Version	1: 2.81
Long Name: RF-Carbon Dioxide Level			SeqNo:	440
Short Name: PCO2			Core:	Yes
Section Name: Risk Factors			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate PCO2 on most recent room a	air blood gas prior to	procedure.		
LowValue: 20.0 UsualRangeLow:				
HighValue: 120.0 UsualRangeHigh:				
Parent Long Name: RF-Arterial Blood Gas	Format: I	Real		
ParentShortName: ABG	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source: U	Jser		
ParentHarvestCodes: 1				
Long Name: RF-Oxygen Level			SeqNo:	445
Short Name: PO2			Core:	Yes
Section Name: Risk Factors			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate PO2 result on most recent ro	oom air arterial blood	l gas prior to procedu	re.	
LowValue: 40.0 UsualRangeLow:				
HighValue: 500.0 UsualRangeHigh:				
Parent Long Name: RF-Arterial Blood Gas	Format:	Real		
ParentShortName: ABG	DataLength:			
ParentValue: = "Yes"	Data Source: \	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Sur	gery Database		Version: 2		: 2.81
Long Name: RF-Ho	ome Oxygen			SeqNo:	450
Short Name: HmO2	2			Core:	Ye
Section Name: Risk F	actors			Harvest:	Ye
DBTableName Adult	Data				
Definition: Indicate	whether supplemental oxygen a	at home is presc	ribed and used.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:		Format:	Text (categorical value	es specified by	STS)
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentHarvestCodes:					
Harvest Codes:					
Code:	Value:				
3	Yes, PRN				
4	Yes, oxygen dependent				
2	No				
5	Unknown				
Long Name: RF-Inl	naled Medication or Oral Brond	chodilator Thera		SeqNo:	455
Short Name: BDTx			P)	Core:	Yes
Section Name: Risk F				Harvest:	Yes
DBTableName Adult	Data				
	whether oral and/or inhaled bro use by the patient routinely prio			steroid medicat	ions
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:		Format:	Text (categorical value	es specified by	STS)
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentHarvestCodes:					
ParentHarvestCodes: Harvest Codes:					
Harvest Codes:	Value:				
Harvest Codes:	<u>Value:</u> Yes				
Harvest Codes: <u>Code:</u>					

STS Adult Cardiac Surgery Databa	se Version: 2.81
Long Name: RF-Sleep Apnea	SeqNo: 460
Short Name: SlpApn	Core: Yes
Section Name: Risk Factors	Harvest: Yes
DBTableName AdultData	
<i>Definition:</i> Indicate whether patie or OSA).	ent has a diagnosis of sleep apnea (may be described as obstructive sleep apnea
LowValue: UsualRang	eLow:
HighValue: UsualRang	eHigh:
Parent Long Name:	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Harvest Codes:	
Code: Value:	
1 Yes	
2 No	
3 Unknown	
Long Name: RF-Pneumonia	SeqNo: 465
Short Name: Pneumonia	Core: Yes
Section Name: Risk Factors	Harvest: Yes
DBTableName AdultData	
Definition: Indicate whether patient pneumonia.	ent has a recent (within 30 days) or remote (more than 30 days) history of
LowValue: UsualRang	eLow:
HighValue: UsualRang	eHigh:
Parent Long Name:	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Harvest Codes and Value D	efinitions:
Code: Value:	Definition:
2 Recent	Within 1 month of procedure
3 Remote	More than 1 month prior to procedure
3 Remote 1 No	More than 1 month prior to procedure

STS Adult Cardiac	Surgery Database	Version: 2.81
Long Name: RI	F-Illicit Drug Use	SeqNo: 470
Short Name: IV	DrugAb	Core: Yes
Section Name: Ris	sk Factors	Harvest: Yes
DBTableName A	dultData	
meth	amphetamine, or abuse of	history of use of illicit drugs, such as heroin, marijuana, cocaine, or a controlled substance. se. Do not include prescribed medicinal marijuana.
LowValue:	UsualRangeLow:	
HighValue:	UsualRangeHigh:	
Parent Long Name	e:	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName.	:	DataLength:
ParentValue:		Data Source: User
ParentHarvestCod	les:	
Harvest Co	des and Value Definitions:	
<u>C</u>	ode: Value:	Definition:
	4 Recent	Within 30 days of procedure
	5 Remote	More than 30 days prior to procedure
	2 No	
	3 Unknown	
-	F-Depression	SeqNo: 475
Short Name: De Section Name: Ris	epression	Core: Yes Harvest: Yes
		narvesi: i es
DBTableName A		
	essed mood or affect.	ent or previous history of depression or documentation of a
LowValue:	UsualRangeLow:	
HighValue:	UsualRangeHigh:	
Parent Long Name	e:	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName	:	DataLength:
ParentValue:		Data Source: User
ParentHarvestCod	les:	
Harvest Co	des:	
<u>C</u>	ode: Value:	
	1 Yes	
	2 No	
	3 Unknown	

STS Adult Cardiac Surg	gery Database		Vers	ion: 2.81
Long Name: RF-Al	cohol Use		SeqNo:	48
Short Name: Alcoh	ol		Core:	Ye
Section Name: Risk F	actors		Harvest:	Ye
DBTableName Adult	Data			
Definition: Specify a	alcohol consumption history.			
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
Parent Long Name:		Format:	Text (categorical values specified b	by STS)
ParentShortName:		DataLength:		
ParentValue:		Data Source:	User	
ParentHarvestCodes:				
Harvest Codes:				
Code:	Value:			
1	<= 1 drink/week			
2	2-7 drinks/week			
3	>= 8 drinks/week			
4	None			
5	Unknown			
Long Name: RF-Liv	ver Disease		SeqNo:	48
Short Name: LiverI	Dis		Core:	Ye
Section Name: Risk F	actors		Harvest:	Ye
DBTableName Adult	Data			
	eal varices, chronic alcohol abu		, hepatitis C, cirrhosis, portal hyperte e hepatopathy. Exclude NASH in the	
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
Parent Long Name:		Format:	Text (categorical values specified b	by STS)
ParentShortName:		DataLength:		
ParentValue:		Data Source:	User	
ParentHarvestCodes:				
Harvest Codes:				
	Value:			
	<u>Value:</u> Yes			
Code:				

STS Adult Cardiac Surgery Database		Version	: 2.81
Long Name:	RF-Immunocompromise	SeqNo:	490
Short Name:	ImmSupp	Core:	Yes
Section Name.	Risk Factors	Harvest:	Yes

Definition: Indicate whether immunocompromise is present due to immunosuppressive medication therapy within 30 days preceding the operative procedure or existing medical condition (see training manual). This includes, but is not limited to systemic steroid therapy, anti-rejection medications and chemotherapy. This does not include topical steroid applications, one time systemic therapy, inhaled steroid therapy or preprocedure protocol.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			

Harvest Codes:

Code:	Value:
1	Yes
2	No
3	Unknown

Long Name:	RF-Mediastinal Radiation	SeqNo:	495
Short Name:	MediastRad	Core:	Yes
Section Name:	Risk Factors	Harvest:	Yes

DBTableName AdultData

Definition: Indicate whether patient has a history of radiation therapy to the mediastinum or chest.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			

Harvest Codes:

Code: Value:

1 Yes

2 No

3 Unknown

STS Adult Cardiac Surgery Database			Version	: 2.81
Long Name: RF-Cancer Within 5 Years			SeqNo:	500
Short Name: Cancer			Core:	Yes
Section Name: Risk Factors			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate whether the patient has a histor capture low grade skin cancers such as			procedure. Do	not
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name:	Format:	Text (categorical values	s specified by S	STS)
ParentShortName:	DataLength:			
ParentValue:	Data Source:	User		
ParentHarvestCodes:				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
3 Unknown				

STS Adult Cardiac Surgery Database		Version:	Version: 2.81	
Long Name:	RF-Peripheral Arterial Disease	SeqNo:	505	
Short Name:	PVD	Core:	Yes	
Section Name	: Risk Factors	Harvest:	Yes	

Definition: Indicate whether the patient has a history of peripheral arterial disease (includes upper and lower extremity, renal, mesenteric, and abdominal aortic systems). This can include:

1. Claudication, either with exertion or at rest,

2. Amputation for arterial vascular insufficiency,

3. Vascular reconstruction, bypass surgery, or percutaneous intervention to the extremities (excluding dialysis fistulas and vein stripping),

4. Documented abdominal aortic aneurysm with or without repair,

5. Positive noninvasive test (e.g., ankle brachial index =< 0.9, ultrasound, magnetic resonance or computed tomography imaging of > 50% diameter stenosis in any peripheral artery, i.e., renal, subclavian, femoral, iliac) or angiographic imaging

Peripheral arterial disease excludes disease in the carotid, cerebrovascular arteries or thoracic aorta. PVD does not include DVT.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	F	Format:	Text (categorical values specified by STS)
ParentShortName:	L	DataLength:	
ParentValue:	I	Data Source:	User
ParentHarvestCodes:			
Harvest Codes:			
Code:	Value:		
1	Yes		
2	No		
3	Unknown		

STS Adult Cardiac Surgery Database	Version:	Version: 2.81	
Long Name: RF-Thoracic Aortic Disease	SeqNo:	510	
Short Name: ThAoDisease	Core:	Yes	
Section Name: Risk Factors	Harvest:	Yes	

Definition: Indicate whether the patient has a history of disease of the thoracic or thoracoabdominal aorta. Abdominal aortic disease without thoracic involvement is captured in peripheral artery disease.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			
Harvest Codes:			
Code:	Value:		
1	Yes		
2	No		
3	Unknown		

Long Name:	RF-Syncope	SeqNo:	515
Short Name:	Syncope	Core:	Yes
Section Name	: Risk Factors	Harvest:	Yes

DBTableName AdultData

Definition: Indicate whether the patient had a sudden loss of consciousness with loss of postural tone, not related to anesthesia, with spontaneous recovery and believed to be related to cardiac condition. Capture events occurring within the past one year as reported by patient or observer. Patient may experience syncope when supine.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			
Hamaat Cadaa			

Harvest Codes:

Code: Value:

- 1 Yes
- 2 No
- 3 Unknown

STS Adult Cardiac Surgery Database Vers		Version:	2.81
Long Name:	RF-Unresponsive Neurologic State	SeqNo:	520
Short Name:	UnrespStat	Core:	Yes
Section Name:	Risk Factors	Harvest:	Yes

Definition: Indicate whether the patient has a history of non-medically induced, unresponsive state within 24 hours of the time of surgery. Patient experienced complete mental unresponsiveness and no evidence of psychological or physiologically appropriate responses to stimulation, includes patients who experience sudden cardiac death.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			
Harvest Codes:			
Code:	Value:		
1	Yes		
2	No		
3	Unknown		

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: RF-Cerebrovascular Dis	SeqNo: 525
Short Name: CVD	Core: Yes
Section Name: Risk Factors	Harvest: Yes

Definition: Indicate whether the patient has a current or previous history of any of the following:

a. Stroke: Stroke is an acute episode of focal or global neurological dysfunction caused by brain, spinal cord, or retinal vascular injury as a result of hemorrhage or infarction, where the neurological dysfunction lasts for greater than 24 hours.

B. TIA: is defined as a transient episode of focal neurological dysfunction caused by brain, spinal cord, or retinal ischemia, without acute infarction, where the neurological dysfunction resolves within 24 hours.

C. Noninvasive or invasive arterial imaging test demonstrating $\geq 50\%$ stenosis of any of the major extracranial or intracranial vessels to the brain

d. Previous cervical or cerebral artery revascularization surgery or percutaneous intervention This does not include chronic (nonvascular) neurological diseases or other acute neurological insults such as metabolic and anoxic ischemic encephalopathy.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			
Harvest Codes:			
Code:	Value:		
1	Yes		
2	No		
3	Unknown		

STS Adult Cardiac Surgery Database		Version	n: 2.81
Long Name: RF-Prior CVA		SeqNo:	530
Short Name: CVA		Core:	Yes
Section Name: Risk Factors		Harvest:	Yes
DBTableName AdultData			
neurological dysfunction caused by b	rain, spinal cord,	oke is an acute episode of focal or globa or retinal vascular injury as a result of nction lasts for greater than 24 hours.	al
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: RF-Cerebrovascular Dis	Format:	Text (categorical values specified by	STS)
ParentShortName: CVD	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
3 Unknown			
Long Name: RF-Prior CVA-When		SeqNo:	535
Short Name: CVAWhen		Core:	Yes
Section Name: Risk Factors		Harvest:	Yes
DBTableName AdultData		11 <i>0</i> / <i>v</i> (<i>s</i>).	105
		occurring within 30 days prior to the su nsidered remote.	ırgical
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: RF-Prior CVA	Format:	Text (categorical values specified by	STS)
ParentShortName: CVA	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
$3 \ll 30 \text{ days}$			
4 > 30 days			

STS Adult Cardiac Surgery Database	Version:	: 2.81
Long Name: RF-CVD TIA	SeqNo:	540
Short Name: CVDTIA	Core:	Yes
Section Name: Risk Factors	Harvest:	Yes

Definition: Indicate whether the patient has a history of a Transient Ischemic Attack (TIA). Transient ischemic attack (TIA) is defined as a transient episode of focal neurological dysfunction caused by brain, spinal cord, or retinal ischemia, without acute infarction, where the neurological dysfunction resolves within 24 hours.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	RF-Cerebrovascular Dis	Format:	Text (categorical values specified by STS)
ParentShortName:	CVD	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCode	s: 1		

Harvest Codes:

Code:	Value:
1	Yes
2	No
3	Unknown

Long Name:	RF-CVD Carotid Stenosis	SeqNo:	545
Short Name:	CVDCarSten	Core:	Yes
Section Name.	Risk Factors	Harvest:	Yes

DBTableName AdultData

Definition: Indicate which carotid artery was determined from any diagnostic test to be $\geq 50\%$ stenotic.

LowValue: HighValue: Parent Long Name:	UsualRangeLow: UsualRangeHigh: RF-Cerebrovascular Dis	Format:	Text (categorical values specified by STS)
ParentShortName:	CVD	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCode	s: 1		
Harvest Code	es:		
<u>Coc</u>	le: <u>Value:</u>		
	2 Right		
	3 Left		

1 None

STS Adult Cardiac Surgery Database		Version	: 2.81
Long Name: RF-CVD Carotid Stenosis - Right		SeqNo:	55
Short Name: CVDStenRt		Core:	Ye
Section Name: Risk Factors		Harvest:	Ye
DBTableName AdultData			
Definition: Indicate the severity of stenosis report	ed on the right ca	rotid artery.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: RF-CVD Carotid Stenosis	Format:	Text (categorical values specified by	STS)
ParentShortName: CVDCarSten	DataLength:		
ParentValue: = "Right" or "Both"	Data Source:	User	
ParentHarvestCodes: 2 4			
Harvest Codes:			
Code: Value:			
3 50% to 79%			
1 80% to 99%			
2 100 %			
4 Not documented			
Long Name: RF-CVD Carotid Stenosis - Left		SeqNo:	55
Short Name: CVDStenLft		Core:	Ye
Section Name: Risk Factors		Harvest:	Ye
DBTableName AdultData			
Definition: Indicate the severity of stenosis report	ed on the left card	otid artery.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: RF-CVD Carotid Stenosis	Format:	Text (categorical values specified by	STS)
ParentShortName: CVDCarSten	DataLength:		
<i>ParentValue:</i> = "Left" or "Both"	Data Source:	User	
ParentHarvestCodes: 3 4			
Harvest Codes:			
Code: Value:			
3 50% to 79%			
1 80% to 99%			
2 100%			
4 Not documented			

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: RF-CVD Prior Carotid Surgery	SeqNo: 56
Short Name: CVDPCarSurg	Core: Ye
Section Name: Risk Factors	Harvest: Ye
DBTableName AdultData	
Definition: Indicate whether the patient has a his	story of previous carotid artery surgery and/or stenting.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: RF-Cerebrovascular Dis	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: CVD	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes:	
Code: Value:	
1 Yes	
2 No	
Long Name: RF-Last WBC Count	SeqNo: 56
Short Name: WBC	Core: Ye
Section Name: Risk Factors	Harvest: Ye
DBTableName AdultData	
	od Cell (WBC) count closest to the date and time prior to gement (induction area or operating room).
LowValue: 0.10 UsualRangeLow: 4.00	
HighValue: 99.99 UsualRangeHigh: 15.00	
HighValue: 99.99 UsualRangeHigh: 15.00 Parent Long Name:	Format: Real
	Format: Real DataLength:

STS Adult Ca	ardiac Sur	gery Database				Version:	2.81
Long Name.	RF-H	emoglobin				SeqNo:	570
Short Name	: RFHe	moglobin				Core:	Yes
Section Nan	<i>ne:</i> Risk F	Factors				Harvest:	Yes
DBTableNa	me Adult	tData					
Definition:	anesthet					to surgery but prior to measured hemoglobin	l
LowValue:	1.00	UsualRangeLow:	11.00				
HighValue:	50.00	UsualRangeHigh:	18.00				
Parent Long	g Name:			Format:	Real		
ParentShort	tName:			DataLength:			
ParentValu	e:			Data Source:	User		
ParentHarv	estCodes:						
Long Name.	: RF-La	ast Hematocrit				SeqNo:	575
Short Name	: Hct					Core:	Yes
Section Nan	<i>ne:</i> Risk F	Factors				Harvest:	Yes
DBTableNa	me Adult	tData					
Definition:	anesthet	the pre-operative Heric management (indu- ot calculated values.				o surgery but prior to v measured hematocrit	
LowValue:	1.00	UsualRangeLow:	39.00				
HighValue:	99.99	UsualRangeHigh:	53.00				
Parent Long	g Name:			Format:	Real		
	tName:			DataLength:			
ParentShort				·			
ParentShort ParentValu	e:			Data Source:	User		

STS Adult Cardiac Surgery Database	Version	: 2.81
Long Name: RF-Platelets	SeqNo:	580
Short Name: Platelets	Core:	Yes
Section Name: Risk Factors	Harvest:	Yes
DBTableName AdultData		
<i>Definition:</i> Indicate the platelet count closest to the date and time prior to surgery but primanagement (induction area or operating room).	or to anesthetic	
LowValue: 1000 UsualRangeLow: 150000		
HighValue: 900000 UsualRangeHigh: 400000		
Parent Long Name:Format:Integer		
ParentShortName: DataLength:		
ParentValue: Data Source: User		
ParentHarvestCodes:		
Long Name: RF-Last Creat Level	SeqNo:	585
Short Name: CreatLst	Core:	Yes
Section Name: Risk Factors	Harvest:	Yes
DBTableName AdultData		
<i>Definition:</i> Indicate the creatinine level closest to the date and time prior surgery but prior management (induction area or operating room).	or to anesthetic	
A creatinine level should be collected on all patients, even if they have no pr disease. A creatinine value is a high predictor of a patient's outcome and is us models.		

LowValue:	0.10	UsualRangeLow:	0.10		
HighValue:	30.00	UsualRangeHigh:	9.00		
Parent Long	Name:			Format:	Real
ParentShortName:				DataLength:	
ParentValue:				Data Source:	User
ParentHarv	estCodes:				

STS Adult Cardiac Surgery Database		Version:	2.81
Long Name: RF-Total Albumin		SeqNo:	590
Short Name: TotAlbumin		Core:	Yes
Section Name: Risk Factors		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the total albumin closest to the management (induction area or operation		r to anesthetic	
LowValue: 1.00 UsualRangeLow: 3.50			
HighValue: 10.00 UsualRangeHigh: 5.00			
Parent Long Name:	Format: Real		
ParentShortName:	DataLength:		
ParentValue:	Data Source: User		
ParentHarvestCodes:			
Long Name: RF-Total Bilirubin		SeqNo:	595
Short Name: TotBlrbn		Core:	Yes
Section Name: Risk Factors		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate the total Bilirubin closest to the management (induction area or operatin		or to anesthetic	
LowValue: 0.10 UsualRangeLow: 0.20			
HighValue: 50.00 UsualRangeHigh: 1.30			
Parent Long Name:	Format: Real		
ParentShortName:	DataLength:		
ParentValue:	Data Source: User		
ParentHarvestCodes:			

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: RF-Last A1c Level	SeqNo: 600
Short Name: AlcLvl	Core: Yes
Section Name: Risk Factors	Harvest: Ye
DBTableName AdultData	
Definition: Indicate the pre-operative Hb/ anesthetic management (induc	c level closest to the date and time prior surgery but prior to on area or operating room).
LowValue: 1.00 UsualRangeLow:	.00
HighValue: 20.00 UsualRangeHigh:	.00
Parent Long Name:	Format: Real
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Long Name:RF-HIT AntibodiesShort Name:HITAntiSection Name:Risk Factors	SeqNo: 60. Core: Ye Harvest: Ye
DBTableName AdultData	
Definition: Indicate whether Heparin Inde	ed Thrombocytopenia (HIT) is confirmed by antibody testing.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Harvest Codes and Value Definition	
	Definition:
Code: Value:	
<u>Code:</u> <u>Value:</u> 1 Yes	Positive antibody testing
	Positive antibody testing Negative antibody testing

STS Adult Cardiac Surgery Database	Version: 2.	81
Long Name: RF-INR	SeqNo:	610
Short Name: INR	Core:	Yes
Section Name: Risk Factors	Harvest:	Yes

Definition: Indicate the International Normalized Ratio (INR) closest to the date and time prior to surgery but prior to anesthetic management (induction area or operating room).

LowValue:	0.50	UsualRangeLow:	0.90		
HighValue:	30.00	UsualRangeHigh:	1.30		
Parent Long	Name:			Format:	Real
ParentShort	Name:			DataLength:	
ParentValue	:			Data Source:	User

ParentHarvestCodes:

Long Name: RF-MELD Score		SeqNo:	615
Short Name: MELDScr		Core:	Yes
Section Name: Risk Factors		Harvest:	Yes
DBTableName AdultData			
Definition: MELD score value calculated by softwa	are to indicate severity of liver disease.		
LowValue: -50.00 UsualRangeLow:			
HighValue: 150.00 UsualRangeHigh:			
Parent Long Name:	Format: Real		
ParentShortName:	DataLength:		
ParentValue:	Data Source: Calculated		
ParentHarvestCodes:			

STS Adult Cardiac Surgery Database	Version: 2.81	
Long Name: RF-BNP		SeqNo: 620
Short Name: BNP		Core: Yes
Section Name: Risk Factors	Harvest: Yes	
DBTableName AdultData		
Definition: Indicate the BNP value.		
LowValue: 5 UsualRangeLow:		
HighValue: 70000 UsualRangeHigh:		
Parent Long Name:	Format: Integer	
ParentShortName:	DataLength:	
ParentValue:	Data Source: User	
ParentHarvestCodes:		

Long Name:	RF-N-Terminal Prohormone of Brain Natriuretic Peptide	SeqNo:	625
Short Name:	NTproBNP	Core:	Yes
Section Name	: Risk Factors	Harvest:	Yes

Definition: NT-proBNP level in the blood is used for screening, diagnosis of acute congestive heart failure (CHF) and may be useful to establish prognosis in heart failure, levels are typically higher in patients with worse outcome. The plasma concentration of NT-proBNP is typically increased in patients with asymptomatic or symptomatic left ventricular dysfunction and is associated with coronary artery disease and myocardial ischemia. Normal NTpBNP levels should be stratified by age and gender. Normal NTpBNP levels give high NPV in excluding significant cardiovascular disease. Most subjects with raised NTpBNP levels and almost all subjects with NTpBNP levels over four times the normal have significant cardiovascular disease. Values are expressed in pg/mL.

LowValue: 5	UsualRangeLow:		
HighValue: 70000	UsualRangeHigh:		
Parent Long Name:		Format:	Integer
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			

STS Adult Cardiac Surgery Database		Version	: 2.81
Long Name:	RF-High-Sensitivity Troponin T	SeqNo:	630
Short Name:	hsTnT	Core:	Yes
Section Name:	Risk Factors	Harvest:	Yes

Definition: hsTnT concentrations are found to be related to several factors like severity of coronary artery disease, left ventricular mass, left ventricular ejection fraction and regional wall motion abnormality. In patients with acute chest pain, myocardial perfusion abnormalities and coronary artery disease are predicted by resting hsTnT levels. Do not code other troponins here. Values are expressed in ng/L.

LowValue: 1	UsualRangeLow:		
HighValue: 200	UsualRangeHigh:		
Parent Long Name:		Format:	Integer
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			

Long Name:	RF-High-Sensitivity CRP or Ultra-sensitive CRP	SeqNo:	635
Short Name:	hsCRP	Core:	Yes
Section Name:	Risk Factors	Harvest:	Yes
DBTableName	AdultData		

Definition: The high-sensitivity C-reactive protein (hsCRP) assay is a quantitative analysis test of very low levels of C-reactive protein (CRP) in the blood. The hsCRP assay is being increasingly used as a marker for cardiac risk assessment and as a prognostic tool in heart disease. The CRP test, in addition to lipid evaluation and global risk scoring systems, helps in the evaluation of cardiovascular disease risk in an individual. C-reactive protein is an acute phase protein that appears in circulation in response to inflammatory cytokines, such as interleukin-6, and serves as a biomarker for systemic inflammation.

Only code hsCRP.

Values are expressed in mg/L.

LowValue:	0.10	UsualRangeLow:	
HighValue:	30.00	UsualRangeHigh:	
Parent Long	Name:	Format:	Real
ParentShort	Name:	DataLength:	
ParentValue	:	Data Source:	User
ParentHarve	estCodes:		

STS Adult Cardiac Surgery Database Version			2.81
Long Name:	RF-Growth Differentiation Factor 15	SeqNo:	640
Short Name:	GDF15	Core:	Yes
Section Name:	Risk Factors	Harvest:	Yes

Definition: Growth differentiation factor 15 (GDF15) is a protein belonging to the transforming growth factor beta superfamily that has a role in regulating inflammatory and apoptotic pathways in injured tissues and during disease processes. GDF15 is also known as TGF-PL, MIC-1, PDF, PLAB, and PTGFB. GDF15 mRNA is most abundant in the liver, with lower levels seen in some other tissues. Its expression in liver can be significantly up-regulated in during injury of organs such as liver, kidney, heart and lung.
 Moreover, increased circulating GDF-15 concentrations have been linked to an enhanced risk

of future adverse cardiovascular events in elderly women and it is a new biomarker of the risk of death in patients with non-ST-elevation acute coronary syndrome.

Values are expressed in pg/mL.

LowValue:	100	UsualRangeLow:		
HighValue:	20000	UsualRangeHigh:		
Parent Long	Name:		Format:	Integer
ParentShortN	lame:		DataLength:	
ParentValue:			Data Source:	User
ParentHarves	stCodes:			

Long Name:	RF-Five Meter Walk Test Done	SeqNo:	645
Short Name:	FiveMWalkTest	Core:	Yes
Section Name	· Risk Factors	Harvest:	Yes

DBTableName AdultData

Definition: Indicate whether the five meter walk test was done.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format: Text (catego	orical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source: User	
ParentHarvestCodes:			
Harvest Codes	and Value Definitions:		
Code:	Value:	Definition:	
1	Yes		
2	No		
3	Non-ambulatory patient	Physically or medically	unable to perform the test.

STS Adult Cardiac Surgery Database	Versior	n: 2.81
Long Name: RF-Five Meter Walk Time 1	SeqNo:	650
Short Name: FiveMWalk1	Core:	Yes
Section Name: Risk Factors	Harvest:	Yes
DBTableName AdultData		
Definition: Indicate the time in seconds it takes the patient to walk 5 meters for the first of	of three tests.	
LowValue: 1 UsualRangeLow: 2		
HighValue: 100 UsualRangeHigh: 20		
Parent Long Name: RF-Five Meter Walk Test Format: Integer Done		
ParentShortName: FiveMWalkTest DataLength:		
ParentValue: = "Yes" Data Source: User		
ParentHarvestCodes: 1		
Long Name: RF-Five Meter Walk Time 2	SeqNo:	655
Short Name: FiveMWalk2	Core:	Yes
Section Name: Risk Factors	Harvest:	Yes
DBTableName AdultData		
Definition: Indicate the time in seconds it takes the patient to walk 5 meters for the second	nd of three tests.	
LowValue: 1 UsualRangeLow: 2		
HighValue: 100 UsualRangeHigh: 20		
Parent Long Name: RF-Five Meter Walk Test Format: Integer Done		
ParentShortName: FiveMWalkTest DataLength:		

Data Source: User

= "Yes"

ParentValue:

ParentHarvestCodes: 1

STS Adult Cardiac Surgery Database			Version	: 2.81
Long Name: RF-Five Meter Walk Time 3			SeqNo:	660
Short Name: FiveMWalk3			Core:	Yes
Section Name: Risk Factors			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the time in seconds it takes t	he patient to walk	5 meters for the third	of three tests.	
LowValue: 1 UsualRangeLow: 2				
HighValue: 100 UsualRangeHigh: 20				
Parent Long Name: RF-Five Meter Walk Test Done	Format:	Integer		
ParentShortName: FiveMWalkTest	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Long Name: Prev Cardiac Intervent			SeqNo:	665
Short Name: PrCVInt			Core:	Yes
Section Name: Previous Cardiac Interventions			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate whether the patient has under or non-surgical, which may include the surger of the surger o				rgical
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name:	Format:	Text (categorical va	alues specified by	STS)
ParentShortName:	DataLength:			
ParentValue:	Data Source:	User		
ParentHarvestCodes:				
Harvest Codes:				
Code: Value:				
1 Yes				
1 Yes 2 No				

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Prev CAB		SeqNo: 670
Short Name: PrCAB		<i>Core:</i> Ye
Section Name: Previous Cardiac Interventions		Harvest: Ye
DBTableName AdultData		
Definition: Indicate whether the patient had a pre-	evious Coronary B	ypass Graft prior to the current admission.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Prev Cardiac Intervent	Format:	Text (categorical values specified by STS)
ParentShortName: PrCVInt	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
<u>Code:</u> Value:		
<u> </u>		
2 No		
Long Name: Prev Valve		SeqNo: 67:
Short Name: PrValve		<i>Core:</i> Ye
Section Name: Previous Cardiac Interventions		Harvest: Ye
DBTableName AdultData		
Definition: Indicate whether the patient had a provide valve. This may also include percutation		lacement and/or surgical repair of a cardiac lures.
LowValue: UsualRangeLow:		
0		
HighValue: UsualRangeHigh:	Format:	Text (categorical values specified by STS)
	Format: DataLength:	Text (categorical values specified by STS)
HighValue:UsualRangeHigh:Parent Long Name:Prev Cardiac InterventParentShortName:PrCVInt		
HighValue:UsualRangeHigh:Parent Long Name:Prev Cardiac InterventParentShortName:PrCVIntParentValue:= "Yes"	DataLength:	
HighValue:UsualRangeHigh:Parent Long Name:Prev Cardiac InterventParentShortName:PrCVIntParentValue:= "Yes"	DataLength:	
HighValue:UsualRangeHigh:Parent Long Name:Prev Cardiac InterventParentShortName:PrCVIntParentValue:= "Yes"ParentHarvestCodes:1	DataLength:	
HighValue:UsualRangeHigh:Parent Long Name:Prev Cardiac InterventParentShortName:PrCVIntParentValue:= "Yes"ParentHarvestCodes:1Harvest Codes:1	DataLength:	

STS Adult Cardiac Surgery Database			Versior	า: 2.81
Long Name: Exact Date of Previous Valve Proced	ure Known		SeqNo:	680
Short Name: PrValDtKnown			Core:	No
Section Name: Previous Cardiac Interventions			Harvest:	No
DBTableName AdultData				
Definition: Indicate whether the exact date of the p	revious valve pr	ocedure is known.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Prev Valve	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: PrValve	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Date of Previous Valve Procedure			SeqNo:	685
Short Name: PrValveDate			Core:	No
Section Name: Previous Cardiac Interventions			Harvest:	No
DBTableName AdultData				
Definition: Indicate the date on which the previous	valve procedure	e was performed.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Exact Date of Previous Valve Procedure Known	Format:	Date mm/dd/yyyy		
ParentShortName: PrValDtKnown	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Surgery Database			Version	: 2.81
Long Name: Estimate Number of Months Since Pre-	evious Valve Pr	ocedure	SeqNo:	690
Short Name: PrValveMonths			Core:	No
Section Name: Previous Cardiac Interventions			Harvest:	No
DBTableName AdultData				
<i>Definition:</i> Indicate the best estimate of the number performed.	of months since	e the most recent prior	valve procedure	was
LowValue: 1 UsualRangeLow:				
HighValue: 240 UsualRangeHigh:				
Parent Long Name: Exact Date of Previous Valve Procedure Known	Format:	Integer		
ParentShortName: PrValDtKnown	DataLength:			
<i>ParentValue:</i> = "No"	Data Source:	User		
ParentHarvestCodes: 2				
Long Name: Prev Valve Procedure 1			SeqNo:	695
Short Name: PrValveProc1			Core:	Yes
Section Name: Previous Cardiac Interventions			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the first previous valve procedu	re.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Prev Valve	Format:	Text (categorical valu	es specified by S	STS)
ParentShortName: PrValve	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
2 Aortic valve balloon valvotomy/valvuloplasty				
3 Aortic valve repair, surgical				
4 Aortic valve replacement, surgical				
5 Aortic valve replacement, transcatheter				
6 Mitral valve balloon valvotomy/valvuloplasty				
7 Mitral valve commissurotomy, surgical				
8 Mitral valve repair,				

9	Mitral valve repair, surgical
10	Mitral valve replacement, surgical

percutaneous

- 11 Mitral valve replacement, transcatheter
- 12 Tricuspid valve balloon valvotomy/valvuloplasty
- 13 Tricuspid valve repair, percutaneous
- 14 Tricuspid valve repair, surgical
- 15 Tricuspid valve replacement, surgical
- 16 Tricuspid valve replacement, transcatheter
- 17 Tricuspid valvectomy
- 18 Pulmonary valve balloon valvotomy/valvuloplasty
- 19 Pulmonary valve repair, surgical
- 20 Pulmonary valve replacement, surgical
- 21 Pulmonary valve replacement, transcatheter
- 22 Pulmonary valvectomy
- 23 Other valve procedure

Long Name: Prev Valve Procedure 2		SeqNo: 700
Short Name: PrValveProc2		Core: Yes
Section Name: Previous Cardiac Interventions		Harvest: Yes
DBTableName AdultData		
Definition: Indicate the second previous valve proce	edure or select "	No additional valve procedures"
LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Prev Valve	Format:	Text (categorical values specified by STS)
ParentShortName: PrValve	DataLength:	· (
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		

STS Adult Cardiac Surgery Database

- 1 No additional valve procedure(s)
- 2 Aortic valve balloon valvotomy/valvuloplasty
- 3 Aortic valve repair, surgical
- 4 Aortic valve replacement, surgical
- 5 Aortic valve replacement, transcatheter
- 6 Mitral valve balloon valvotomy/valvuloplasty
- 7 Mitral valve commissurotomy, surgical
- 8 Mitral valve repair, percutaneous
- 9 Mitral valve repair, surgical
- 10 Mitral valve replacement, surgical
- 11 Mitral valve replacement, transcatheter
- 12 Tricuspid valve balloon valvotomy/valvuloplasty
- 13 Tricuspid valve repair, percutaneous
- 14 Tricuspid valve repair, surgical
- 15 Tricuspid valve replacement, surgical
- 16 Tricuspid valve replacement, transcatheter
- 17 Tricuspid valvectomy
- 18 Pulmonary valve balloon valvotomy/valvuloplasty
- 19 Pulmonary valve repair, surgical
- 20 Pulmonary valve replacement, surgical
- 21 Pulmonary valve replacement, transcatheter
- 22 Pulmonary valvectomy
- 23 Other valve procedure

STS Adult Cardiac	Surgery Database	Version:	2.81
Long Name: Pre	ev Valve Procedure 3	SeqNo:	705
Short Name: Pr	ValveProc3	Core:	Yes
Section Name: Pre	evious Cardiac Interventions	Harvest:	Yes

Definition: Indicate the third previous valve procedure or select "No additional valve procedures"

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Prev Valve Procedure 2	Format:	Text (categorical values specified by STS)
ParentShortName:	PrValveProc2	DataLength:	
ParentValue:	"No additional valve procedure(s)" And Is Not Missing	Data Source:	User
ParentHarvestCode	s: \ll 1 And Is Not Missing		

Harvest Codes:

Code: Value:

- 1 No additional valve procedure(s)
- 2 Aortic valve balloon valvotomy/valvuloplasty
- 3 Aortic valve repair, surgical
- 4 Aortic valve replacement, surgical
- 5 Aortic valve replacement, transcatheter
- 6 Mitral valve balloon valvotomy/valvuloplasty
- 7 Mitral valve commissurotomy, surgical
- 8 Mitral valve repair, percutaneous
- 9 Mitral valve repair, surgical
- 10 Mitral valve replacement, surgical
- 11 Mitral valve replacement, transcatheter
- 12 Tricuspid valve balloon valvotomy/valvuloplasty
- 13 Tricuspid valve repair, percutaneous
- 14 Tricuspid valve repair, surgical
- 15 Tricuspid valve replacement,

surgical

- 16 Tricuspid valve replacement, transcatheter
- 17 Tricuspid valvectomy
- 18 Pulmonary valve balloon valvotomy/valvuloplasty
- 19 Pulmonary valve repair, surgical
- 20 Pulmonary valve replacement, surgical
- 21 Pulmonary valve replacement, transcatheter
- 22 Pulmonary valvectomy
- 23 Other valve procedure

Long Name:	Prev Valve Procedure 4	SeqNo:	710
Short Name:	PrValveProc4	Core:	Yes
Section Name.	· Previous Cardiac Interventions	Harvest:	Yes

DBTableName AdultData

Definition: Indicate the fourth previous valve procedure or select "No additional valve procedures"

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Prev Valve Procedure 3	Format:	Text (categorical values specified by STS)
ParentShortName:	PrValveProc3	DataLength:	
ParentValue:	◇"No additional valve procedure(s)" And Is Not Missing	Data Source:	User
Damant Hampost Code	a. 1 And Ia Not Missing		

ParentHarvestCodes: <>1 And Is Not Missing

Harvest Codes:

Code: Value:

- 1 No additional valve procedure(s)
- 2 Aortic valve balloon valvotomy/valvuloplasty
- 3 Aortic valve repair, surgical
- 4 Aortic valve replacement, surgical
- 5 Aortic valve replacement, transcatheter
- 6 Mitral valve balloon valvotomy/valvuloplasty
- 7 Mitral valve

	commissurotomy, surgical
8	Mitral valve repair, percutaneous
9	Mitral valve repair, surgical
10	

- 10 Mitral valve replacement, surgical
- 11 Mitral valve replacement, transcatheter
- 12 Tricuspid valve balloon valvotomy/valvuloplasty
- 13 Tricuspid valve repair, percutaneous
- 14 Tricuspid valve repair, surgical
- 15 Tricuspid valve replacement, surgical
- 16 Tricuspid valve replacement, transcatheter
- 17 Tricuspid valvectomy
- 18 Pulmonary valve balloon valvotomy/valvuloplasty
- 19 Pulmonary valve repair, surgical
- 20 Pulmonary valve replacement, surgical
- 21 Pulmonary valve replacement, transcatheter
- 22 Pulmonary valvectomy
- 23 Other valve procedure

STS Adult Card	liac Surgery Database	Version: 2.8	81
Long Name:	Prev Valve Procedure 5	SeqNo: 7	15
Short Name:	PrValveProc5	Core: Y	es
Section Name.	Previous Cardiac Interventions	Harvest: Y	es

Definition: Indicate the fifth previous valve procedure or select "No additional valve procedures"

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Prev Valve Procedure 4	Format:	Text (categorical values specified by STS)
ParentShortName:	PrValveProc4	DataLength:	
ParentValue:	"No additional valve procedure(s)" And Is Not Missing	Data Source:	User

ParentHarvestCodes: <>1 And Is Not Missing

Harvest Codes:

Code: Value:

- 1 No additional valve procedure(s)
- 2 Aortic valve balloon valvotomy/valvuloplasty
- 3 Aortic valve repair, surgical
- 4 Aortic valve replacement, surgical
- 5 Aortic valve replacement, transcatheter
- 6 Mitral valve balloon valvotomy/valvuloplasty
- 7 Mitral valve commissurotomy, surgical
- 8 Mitral valve repair, percutaneous
- 9 Mitral valve repair, surgical
- 10 Mitral valve replacement, surgical
- 11 Mitral valve replacement, transcatheter
- 12 Tricuspid valve balloon valvotomy/valvuloplasty
- 13 Tricuspid valve repair, percutaneous
- 14 Tricuspid valve repair, surgical
- 15 Tricuspid valve replacement,

surgical

- 16 Tricuspid valve replacement, transcatheter
- 17 Tricuspid valvectomy
- 18 Pulmonary valve balloon valvotomy/valvuloplasty
- 19 Pulmonary valve repair, surgical
- 20 Pulmonary valve replacement, surgical
- 21 Pulmonary valve replacement, transcatheter
- 22 Pulmonary valvectomy
- 23 Other valve procedure

Long Name: Previous procedure - Aortic Valve Rep	placement - Su	rgical	SeqNo:	720
Short Name: PrevProcAVReplace			Core:	No
Section Name: Previous Cardiac Interventions			Harvest:	No
DBTableName AdultData				
Definition: Indicate whether a previous procedure in	cluded a surgio	cal aortic valve replacem	ient.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Prev Valve	Format:	Text (categorical value	s specified by S	STS)
ParentShortName: PrValve	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Previous procedure - Aortic Value	ve Repair - Surgical		SeqNo:	725
Short Name: PrevProcAVRepair			Core:	No
Section Name: Previous Cardiac Interventions			Harvest:	No
DBTableName AdultData				
Definition: Indicate whether a previous proced	ure included a surgica	al aortic valve repair.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Prev Valve	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: PrValve	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
				_
Long Name: Previous Procedure - Aortic Valv	ve Balloon Valvulopl	asty	SeqNo:	730
Short Name: PrevProcAVBall			Core:	No
Section Name: Previous Cardiac Interventions			Harvest:	No
DBTableName AdultData				
<i>Definition:</i> Indicate whether a previous proced	ure included an aortic	e balloon valvuloplasty	/.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Prev Valve	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: PrValve	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				

STS Adult Cardiac Surgery Database	Versior	n: 2.81
Long Name: Previous procedure - Mitral Valve Replacement - Surgical	SeqNo:	735
Short Name: PrevProcMVReplace	Core:	No
Section Name: Previous Cardiac Interventions	Harvest:	No
DBTableName AdultData		
Definition: Indicate whether a previous procedure included a surgical mitral valve replace	ement.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Prev Valve Format: Text (categorical val	lues specified by	STS)
ParentShortName: PrValve DataLength:		
ParentValue: = "Yes" Data Source: User		
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: Previous procedure - Mitral Valve Repair - Surgical	SeqNo:	740
Short Name: PrevProcMVRepair	Core:	No
Section Name: Previous Cardiac Interventions	Harvest:	No
DBTableName AdultData		
Definition: Indicate whether a previous procedure included a surgical mitral valve repair.		
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Prev Valve Format: Text (categorical val	lues specified by	STS)
ParentShortName: PrValve DataLength:		
ParentValue: = "Yes" Data Source: User		
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		

STS Adult Cardiac Surgery Database			Versior	า: 2.81
Long Name: Previous Procedure - Mitral Valve	Balloon Valvulop	asty	SeqNo:	745
Short Name: PrevProcMVBall			Core:	No
Section Name: Previous Cardiac Interventions			Harvest:	No
DBTableName AdultData				
Definition: Indicate whether a previous procedure	e included a mitral	valve balloon valvulo	plasty.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Prev Valve	Format:	Text (categorical value	ues specified by	STS)
ParentShortName: PrValve	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
<i>Long Name:</i> Previous procedure - Tricuspid Val	lve Replacement -	Surgical	SeqNo:	750
Short Name: PrevProcTVReplace			Core:	No
Section Name: Previous Cardiac Interventions			Harvest:	No
DBTableName AdultData				
Definition: Indicate whether a previous procedure	e included a surgic	al tricuspid valve repl	acement.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Prev Valve	Format:	Text (categorical value	ues specified by	STS)
ParentShortName: PrValve	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Previous procedure - Tricuspid V	alve Repair - Surgic	al	SeqNo:	755
Short Name: PrevProcTVRepair			Core:	No
Section Name: Previous Cardiac Interventions			Harvest:	No
DBTableName AdultData				
Definition: Indicate whether a previous proceed	ure included a surgic	al tricuspid valve rep	air.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Prev Valve	Format:	Text (categorical val	lues specified by	STS)
ParentShortName: PrValve	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Previous procedure - Pulmonic V	alve Repair / Replac	cement - Surgical	SeqNo:	760
Short Name: PrevProcPV			Core:	No
Section Name: Previous Cardiac Interventions			Harvest:	No
DBTableName AdultData				
<i>Definition:</i> Indicate whether a previous proceed	ure included a surgic	al pulmonic valve rep	pair or replaceme	ent.
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Prev Valve	Format:	Text (categorical val	lues specified by	STS)
ParentShortName: PrValve	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database			Versio	า: 2.81
Long Name: Previous Procedure - Transcatheter	r Valve Replaceme	ent	SeqNo:	765
Short Name: PrevProcTCVRep			Core:	No
Section Name: Previous Cardiac Interventions			Harvest:	No
DBTableName AdultData				
Definition: Indicate whether a previous procedur	e included a transc	atheter valve replacem	ient.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Prev Valve	Format:	Text (categorical valu	ues specified by	STS)
ParentShortName: PrValve	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
			G N	
Long Name: Previous Procedure - Percutaneous	Valve Repair		SeqNo:	770
Short Name: PrevProcPercVRepair			Core:	No
Section Name: Previous Cardiac Interventions			Harvest:	No
DBTableName AdultData				
<i>Definition:</i> Indicate whether a previous procedur	e included a percu	taneous valve repair.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:		T		(TTC)
Parent Long Name: Prev Valve	Format:	Text (categorical valu	ies specified by	STS)
ParentShortName: PrValve	DataLength:			
ParentValue: = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database			Version	: 2.81
Long Name: Previous PCI			SeqNo:	775
Short Name: POCPCI			Core:	Yes
Section Name: Previous Cardiac Interventions			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether a previous Percutaneou prior to this surgical procedure. Percutaneous coronary intervention (PC other device (e.g. stent, atherectomy, brachyth artery or coronary artery bypass graft for the purp	I) is the placem nerapy, or throm	ent of an angioplasty gubectomy catheter) into	uide wire, balloo a native corona	on, or
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Prev Cardiac Intervent	Format:	Text (categorical value	es specified by	STS)
ParentShortName: PrCVInt	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Previous PCI-Within This Episode of	Care		SeqNo:	780 V
Short Name: POCPCIWhen Section Name: Previous Cardiac Interventions			Core: Harvest:	Yes Yes
DBTableName AdultData			nurvesi.	103
Definition: Indicate whether the previous Percutane	ous Cardiaa Int	ervention (DCI) was not	formed within	thic
episode of care. Episode of care is defin- transfer from one acute care hospital to a	ed as continuou	· / ·		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Previous PCI	Format:	Text (categorical value	es specified by	STS)
ParentShortName: POCPCI	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Harvest Codes: <u>Code:</u> <u>Value:</u>				

3 No

Long Name:	Previous PCI-Indication For Surgery	SeqNo:	785
Short Name:	POCPCIndSurg	Core:	Yes
Section Name:	Previous Cardiac Interventions	Harvest:	Yes

DBTableName AdultData

Definition: Select the indication for surgery following the Percutaneous Cardiac Intervention (PCI).

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Previous PCI-Within This Episode of Care	Format:	Text (categorical values specified by STS)
ParentShortName:	POCPCIWhen	DataLength:	
ParentValue:	= "Yes, at this facility" or "Yes, at some other acute care facility"	Data Source:	User

ParentHarvestCodes: 1|2

Harvest Codes and Value Definitions:

Code:	Value:	Definition:
1	PCI Complication	Complication during PCI necessitating surgical intervention such as dissection or acute occlusion
5	PCI Failure with Clinical Deterioration	PCI failed to yield expected and/or desired results, patient condition deteriorated.
4	PCI for STEMI, Multivessel disease	STEMI with primary PCI (of culprit lesion) and multivessel disease requiring CABG.
2	PCI Failure without Clinical Deterioration	PCI failed to yield expected and/or desired results, patient condition did not deteriorate.
3	PCI/Surgery Staged Procedure (not STEMI)	PCI and surgical procedures performed in a staged fashion in a patient not experiencing STEMI
9	Other	Other indication for surgery not described above

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Long Name: Previous PCI-Stent		SeqNo: 79
Short Name: POCPCISt		<i>Core:</i> Ye
Section Name: Previous Cardiac Interventions		Harvest: Ye
DBTableName AdultData		
Definition: Indicate whether an intracoronary ste Intervention (PCI).	nt was used during	g the previous Percutaneous Cardiac
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Previous PCI	Format:	Text (categorical values specified by STS)
ParentShortName: POCPCI	DataLength:	
ParentValue: = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: Previous PCI-Stent Type		SeqNo: 79
Short Name: POCPCIStTy		Core: Ye
Section Name: Previous Cardiac Interventions		Harvest: Ye
DBTableName AdultData		
Definition: Indicate type of intracoronary stent p	laced.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Previous PCI-Stent	Format:	Text (categorical values specified by STS)
ParentShortName: POCPCISt	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
Code: Value: 1 Bare metal		
1 Bare metal		
 Bare metal Drug-eluting 		

STS Adult Cardiac Surgery Database		Versio	n: 2.81
Long Name: Previous PCI-Interval		SeqNo:	800
Short Name: POCPCIIn		Core:	Yes
Section Name: Previous Cardiac Interventions		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the interval of time between	the previous PCI	and the current surgical procedure.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Previous PCI	Format:	Text (categorical values specified by	v STS)
ParentShortName: POCPCI	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source.	: User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
$1 \ll 6$ Hours			
2 > 6 Hours			
Long Name: Previous Other Cardiac		SeqNo:	805
Short Name: POC		Core:	Yes
Section Name: Previous Cardiac Interventions		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether the patient had any	other previous car	diac intervention.	
LowValue: UsualRangeLow:	1		
HighValue: UsualRangeHigh:			
Parent Long Name: Prev Cardiac Intervent	Format:	Text (categorical values specified by	v STS)
ParentShortName: PrCVInt	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source.	: User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 17			
1 Yes			

STS Adult Cardiac Surg	gery Database			Version	: 2.81
Long Name: Previo	us Other Cardiac Intervention 1			SeqNo:	810
Short Name: POCIn	ntl			Core:	Yes
Section Name: Previou	us Cardiac Interventions			Harvest:	Yes
DBTableName Adultl	Data				
Definition: Indicate t	the first other cardiac intervention	on that was per	formed.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name: F	Previous Other Cardiac	Format:	Text (categorical valu	ies specified by	STS)
ParentShortName: P	OC	DataLength:			
ParentValue: =	"Yes"	Data Source:	User		
ParentHarvestCodes:	1				
Harvest Codes:					
Code:	<u>Value:</u>				
2	Ablation, catheter, atrial fibrillation				
3	Ablation, catheter, other or unknown				
4	Ablation, catheter, ventricular				
5	Ablation, surgical, atrial fibrillation				
6	Ablation, surgical, other or unknown				
7	Aneurysmectomy, LV				
8	Aortic procedure, arch				
9	Aortic procedure, ascending				
10	Aortic procedure, descending				
11	Aortic procedure, root				
12	Aortic procedure, thoracoabdominal				
13	Aortic Procedure, TEVAR				
14	Aortic root procedure, valve sparing				
15	Atrial appendage obliteration, Left, surgical				
16	Atrial appendage obliteration, Left, transcatheter				
17	Atrial appendage obliteration, Right, surgical				
18	Atrial appendage obliteration, Right, transcatheter				
19	Cardiac Tumor				

- 21 Closure device, atrial septal defect
- 22 Closure device, ventricular septal defect
- 23 Congenital cardiac repair, surgical
- 24 Implantable Cardioverter Defibrillator (ICD) with or without pacer
- 25 Pacemaker
- 26 Pericardiectomy
- 27 Pulmonary thrombectomy
- 28 Total Artificial Heart (TAH)
- 29 Transmyocardial Laser Revascularization (TMR)
- 30 Transplant heart & lung
- 31 Transplant, heart
- 32 Transplant, lung(s)
- 33 Ventricular Assist Device (VAD), BiVAD
- 34 Ventricular Assist Device (VAD), left
- 35 Ventricular Assist Device (VAD), right
- 36 Other Cardiac Intervention (not listed)

Long Name: Previou	as Other Cardiac Intervention 2			SeqNo:	815
Short Name: POCIn	t2			Core:	Yes
Section Name: Previou	s Cardiac Interventions			Harvest:	Yes
DBTableName Adult	Data				
Definition: Indicate the	he second other cardiac interven	ntion that was p	performed.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name: P	revious Other Cardiac	Format:	Text (categorical valu	ies specified by	STS)
ParentShortName: PC	DC	DataLength:			
ParentValue: =	"Yes"	Data Source:	User		
ParentHarvestCodes:	1				
Harvest Codes:					
Code:	Value:				
1	No additional interventions				
2	Ablation, catheter, atrial fibrillation				
3	Ablation, catheter, other or unknown				
4	Ablation, catheter, ventricular				
5	Ablation, surgical, atrial fibrillation				
6	Ablation, surgical, other or unknown				
7	Aneurysmectomy, LV				
8	Aortic procedure, arch				
9	Aortic procedure, ascending				
10	Aortic procedure, descending				
11	Aortic procedure, root				
12	Aortic procedure, thoracoabdominal				
13	Aortic Procedure, TEVAR				
14	Aortic root procedure, valve sparing				
15	Atrial appendage obliteration, Left, surgical				
16	Atrial appendage obliteration, Left, transcatheter				
17	Atrial appendage obliteration, Right, surgical				

18 Atrial appendage obliteration,

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Right, transcatheter

- 19 Cardiac Tumor
- 20 Cardioversion(s)
- 21 Closure device, atrial septal defect
- 22 Closure device, ventricular septal defect
- 23 Congenital cardiac repair, surgical
- 24 Implantable Cardioverter Defibrillator (ICD) with or without pacer
- 25 Pacemaker
- 26 Pericardiectomy
- 27 Pulmonary thrombectomy
- 28 Total Artificial Heart (TAH)
- 29 Transmyocardial Laser Revascularization (TMR)
- 30 Transplant heart & lung
- 31 Transplant, heart
- 32 Transplant, lung(s)
- 33 Ventricular Assist Device (VAD), BiVAD
- 34 Ventricular Assist Device (VAD), left
- 35 Ventricular Assist Device (VAD), right
- 36 Other Cardiac Intervention (not listed)

STS Adult Cardiac Su	rgery Database			Version: 2.81
Long Name: Previ	ous Other Cardiac Intervention 3	3	Seq	<i>No:</i> 82
Short Name: POC	Int3		(Core: Ye
Section Name: Previo	ous Cardiac Interventions		Harv	<i>est:</i> Ye
DBTableName Adul	ltData			
Definition: Indicate	the third other cardiac intervent	tion that was per	rformed.	
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
	Previous Other Cardiac Intervention 2	Format:	Text (categorical values speci	fied by STS)
ParentShortName:	POCInt2	DataLength:		
i	<>"No additional interventions" And Is Not Missing	Data Source:	User	
ParentHarvestCodes.	~ 1 And Is Not Missing			
Harvest Codes	:			
Code	<u>: Value:</u>			
1	No additional interventions			
2	Ablation, catheter, atrial fibrillation			
3	Ablation, catheter, other or unknown			
4	Ablation, catheter, ventricular	r		
5	Ablation, surgical, atrial fibrillation			
6	Ablation, surgical, other or unknown			
7	Aneurysmectomy, LV			
8	Aortic procedure, arch			
9	Aortic procedure, ascending			
10	Aortic procedure, descending			
11	Aortic procedure, root			
12	Aortic procedure, thoracoabdominal			
13	Aortic Procedure, TEVAR			
14	Aortic root procedure, valve sparing			
15	Atrial appendage obliteration Left, surgical	,		
16	Atrial appendage obliteration Left, transcatheter	,		
17		,		

- 18 Atrial appendage obliteration, Right, transcatheter
- 19 Cardiac Tumor
- 20 Cardioversion(s)
- 21 Closure device, atrial septal defect
- 22 Closure device, ventricular septal defect
- 23 Congenital cardiac repair, surgical
- 24 Implantable Cardioverter Defibrillator (ICD) with or without pacer
- 25 Pacemaker
- 26 Pericardiectomy
- 27 Pulmonary thrombectomy
- 28 Total Artificial Heart (TAH)
- 29 Transmyocardial Laser Revascularization (TMR)
- 30 Transplant heart & lung
- 31 Transplant, heart
- 32 Transplant, lung(s)
- 33 Ventricular Assist Device (VAD), BiVAD
- 34 Ventricular Assist Device (VAD), left
- 35 Ventricular Assist Device (VAD), right
- 36 Other Cardiac Intervention (not listed)

STS Adult Cardiac Su	rgery Database			Version:	2.81
Long Name: Previ	ous Other Cardiac Intervention 4			SeqNo:	825
Short Name: POC	Int4			Core:	Ye
Section Name: Previo	ous Cardiac Interventions		1	Harvest:	Ye
DBTableName Adul	tData				
Definition: Indicate	the fourth other cardiac interver	ntion that was p	erformed.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
	Previous Other Cardiac Intervention 3	Format:	Text (categorical values s	specified by S	STS)
ParentShortName:	POCInt3	DataLength:			
i	◇"No additional interventions" And Is Not Missing	Data Source:	User		
ParentHarvestCodes:	~ 1 And Is Not Missing				
Harvest Codes					
Code	<u>: Value:</u>				
1	No additional interventions				
2	Ablation, catheter, atrial fibrillation				
3	Ablation, catheter, other or unknown				
4	Ablation, catheter, ventricular				
5	Ablation, surgical, atrial fibrillation				
6	Ablation, surgical, other or unknown				
7	Aneurysmectomy, LV				
8	Aortic procedure, arch				
9	Aortic procedure, ascending				
10	Aortic procedure, descending				
11	Aortic procedure, root				
12	Aortic procedure, thoracoabdominal				
13	Aortic Procedure, TEVAR				
14	Aortic root procedure, valve sparing				
15	Atrial appendage obliteration, Left, surgical				
16	Atrial appendage obliteration, Left, transcatheter				
17	Atrial appendage obliteration,				

- 18 Atrial appendage obliteration, Right, transcatheter
- 19 Cardiac Tumor
- 20 Cardioversion(s)
- 21 Closure device, atrial septal defect
- 22 Closure device, ventricular septal defect
- 23 Congenital cardiac repair, surgical
- 24 Implantable Cardioverter Defibrillator (ICD) with or without pacer
- 25 Pacemaker
- 26 Pericardiectomy
- 27 Pulmonary thrombectomy
- 28 Total Artificial Heart (TAH)
- 29 Transmyocardial Laser Revascularization (TMR)
- 30 Transplant heart & lung
- 31 Transplant, heart
- 32 Transplant, lung(s)
- 33 Ventricular Assist Device (VAD), BiVAD
- 34 Ventricular Assist Device (VAD), left
- 35 Ventricular Assist Device (VAD), right
- 36 Other Cardiac Intervention (not listed)

STS Adult Cardiac Sur	gery Database			Version	2.81
Long Name: Previo	ous Other Cardiac Intervention 5			SeqNo:	830
Short Name: POCI	nt5			Core:	Ye
Section Name: Previo	ous Cardiac Interventions		i	Harvest:	Ye
DBTableName Adul	tData				
Definition: Indicate	the fifth other cardiac interventi	on that was per	formed.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
	Previous Other Cardiac Intervention 4	Format:	Text (categorical values	specified by S	STS)
ParentShortName: I	POCInt4	DataLength:			
i	≫"No additional nterventions" And Is Not Missing	Data Source:	User		
ParentHarvestCodes:	⇔1 And Is Not Missing				
Harvest Codes					
Code	<u>: Value:</u>				
1	No additional interventions				
2	Ablation, catheter, atrial fibrillation				
3	Ablation, catheter, other or unknown				
4	Ablation, catheter, ventricular				
5	Ablation, surgical, atrial fibrillation				
6	Ablation, surgical, other or unknown				
7	Aneurysmectomy, LV				
8	Aortic procedure, arch				
9	Aortic procedure, ascending				
10	Aortic procedure, descending				
11	Aortic procedure, root				
12	Aortic procedure, thoracoabdominal				
13	Aortic Procedure, TEVAR				
14	Aortic root procedure, valve sparing				
15	Atrial appendage obliteration, Left, surgical				
16	Atrial appendage obliteration, Left, transcatheter				
17	Atrial appendage obliteration,				

- 18 Atrial appendage obliteration, Right, transcatheter
- 19 Cardiac Tumor
- 20 Cardioversion(s)
- 21 Closure device, atrial septal defect
- 22 Closure device, ventricular septal defect
- 23 Congenital cardiac repair, surgical
- 24 Implantable Cardioverter Defibrillator (ICD) with or without pacer
- 25 Pacemaker
- 26 Pericardiectomy
- 27 Pulmonary thrombectomy
- 28 Total Artificial Heart (TAH)
- 29 Transmyocardial Laser Revascularization (TMR)
- 30 Transplant heart & lung
- 31 Transplant, heart
- 32 Transplant, lung(s)
- 33 Ventricular Assist Device (VAD), BiVAD
- 34 Ventricular Assist Device (VAD), left
- 35 Ventricular Assist Device (VAD), right
- 36 Other Cardiac Intervention (not listed)

STS Adult Cardiac Su	rgery Database			Version: 2	.81
Long Name: Previ	ious Other Cardiac Intervention	6	S	eqNo:	83
Short Name: POC	Int6			Core:	Ye
Section Name: Previ	ous Cardiac Interventions		Han	vest:	Ye
DBTableName Adu	ltData				
Definition: Indicate	e the sixth other cardiac interven	tion that was pe	rformed.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:	Previous Other Cardiac Intervention 5	Format:	Text (categorical values spe	cified by ST	S)
ParentShortName:	POCInt5	DataLength:			
	<>"No additional interventions" And Is Not Missing	Data Source:	User		
ParentHarvestCodes	$\sim \sim$ 1 And Is Not Missing				
Harvest Codes	5:				
Code	e: <u>Value:</u>				
1	No additional interventions				
2	2 Ablation, catheter, atrial fibrillation				
3	Ablation, catheter, other or unknown				
4	Ablation, catheter, ventricula	r			
5	5 Ablation, surgical, atrial fibrillation				
6	5 Ablation, surgical, other or unknown				
7	Aneurysmectomy, LV				
8	8 Aortic procedure, arch				
9	Aortic procedure, ascending				
10	Aortic procedure, descending	5			
11	Aortic procedure, root				
12	2 Aortic procedure, thoracoabdominal				
13	Aortic Procedure, TEVAR				
14	Aortic root procedure, valve sparing				
15	5 Atrial appendage obliteration Left, surgical	·,			
16	 Atrial appendage obliteration Left, transcatheter 	·,			
17	Atrial appendage obliteration	·,			

- 18 Atrial appendage obliteration, Right, transcatheter
- 19 Cardiac Tumor
- 20 Cardioversion(s)
- 21 Closure device, atrial septal defect
- 22 Closure device, ventricular septal defect
- 23 Congenital cardiac repair, surgical
- 24 Implantable Cardioverter Defibrillator (ICD) with or without pacer
- 25 Pacemaker
- 26 Pericardiectomy
- 27 Pulmonary thrombectomy
- 28 Total Artificial Heart (TAH)
- 29 Transmyocardial Laser Revascularization (TMR)
- 30 Transplant heart & lung
- 31 Transplant, heart
- 32 Transplant, lung(s)
- 33 Ventricular Assist Device (VAD), BiVAD
- 34 Ventricular Assist Device (VAD), left
- 35 Ventricular Assist Device (VAD), right
- 36 Other Cardiac Intervention (not listed)

STS Adult Cardiac Surg	gery Database			Version	: 2.81
Long Name: Previo	us Other Cardiac Intervention 7			SeqNo:	840
Short Name: POCI	nt7			Core:	Ye
Section Name: Previo	us Cardiac Interventions			Harvest:	Ye
DBTableName Adult	Data				
Definition: Indicate	the seventh other cardiac interve	ention that was	performed.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
	Previous Other Cardiac Intervention 6	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: P	OCInt6	DataLength:			
ir	>"No additional hterventions" And Is Not fissing	Data Source:	User		
ParentHarvestCodes:	<>1 And Is Not Missing				
Harvest Codes:					
Code:	Value:				
1	No additional interventions				
2	Ablation, catheter, atrial fibrillation				
3	Ablation, catheter, other or unknown				
4	Ablation, catheter, ventricular				
5	Ablation, surgical, atrial fibrillation				
6	Ablation, surgical, other or unknown				
7	Aneurysmectomy, LV				
8	Aortic procedure, arch				
9	Aortic procedure, ascending				
10	Aortic procedure, descending				
11	Aortic procedure, root				
12	Aortic procedure, thoracoabdominal				
13	Aortic Procedure, TEVAR				
14	Aortic root procedure, valve sparing				
15	Atrial appendage obliteration, Left, surgical				
16	Atrial appendage obliteration, Left, transcatheter				
17	Atrial appendage obliteration,				

- 18 Atrial appendage obliteration, Right, transcatheter
- 19 Cardiac Tumor
- 20 Cardioversion(s)
- 21 Closure device, atrial septal defect
- 22 Closure device, ventricular septal defect
- 23 Congenital cardiac repair, surgical
- 24 Implantable Cardioverter Defibrillator (ICD) with or without pacer
- 25 Pacemaker
- 26 Pericardiectomy
- 27 Pulmonary thrombectomy
- 28 Total Artificial Heart (TAH)
- 29 Transmyocardial Laser Revascularization (TMR)
- 30 Transplant heart & lung
- 31 Transplant, heart
- 32 Transplant, lung(s)
- 33 Ventricular Assist Device (VAD), BiVAD
- 34 Ventricular Assist Device (VAD), left
- 35 Ventricular Assist Device (VAD), right
- 36 Other Cardiac Intervention (not listed)

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Indication for Reoperation	SeqNo: 845
Short Name: IndReop	Core: No
Section Name: Previous Cardiac Interventions	Harvest: No
DBTableName AdultData	
Definition: Indicate the primary reason for repo	eat valve procedure.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Prev Valve	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: PrValve	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes and Value Definitions:	
Code: Value:	Definition:
1 Structural Prosthetic Val Deterioration	
2 Non-structural prosthetic valve dysfunction	e entrapment by pannus, paravalvular leak, obstruction, inappropriate sizing,
3 Prosthetic valve endocar	ditis Infection, active or treated
3 Prosthetic valve endocar4 Valve Thrombosis	ditis Infection, active or treated
4 Valve Thrombosis	ditis Infection, active or treated
4 Valve Thrombosis	
 4 Valve Thrombosis 5 Failed Repair 6 Repeat valve procedure of 	
 4 Valve Thrombosis 5 Failed Repair 6 Repeat valve procedure of different valve 7 Other 	on a
 4 Valve Thrombosis 5 Failed Repair 6 Repeat valve procedure of different valve 7 Other 	on a
 4 Valve Thrombosis 5 Failed Repair 6 Repeat valve procedure of different valve 7 Other Long Name: Non-Structural Valve Dysfunction	on a on SeqNo: 850 Core: No
 4 Valve Thrombosis 5 Failed Repair 6 Repeat valve procedure of different valve 7 Other Long Name: Non-Structural Valve Dysfunction Short Name: NonStVDys	on a on <i>SeqNo:</i> 850 <i>Core:</i> No
 4 Valve Thrombosis 5 Failed Repair 6 Repeat valve procedure of different valve 7 Other Long Name: Non-Structural Valve Dysfunction Short Name: NonStVDys Section Name: Previous Cardiac Interventions	on a on <i>SeqNo:</i> 850 <i>Core:</i> No <i>Harvest:</i> No
 4 Valve Thrombosis 5 Failed Repair 6 Repeat valve procedure of different valve 7 Other Long Name: Non-Structural Valve Dysfunction Short Name: NonStVDys Section Name: Previous Cardiac Interventions DBTableName AdultData Definition: Indicate the primary type of nonstructural	on a on SeqNo: 850 Core: No Harvest: No
4 Valve Thrombosis 5 Failed Repair 6 Repeat valve procedure of different valve 7 Other Long Name: Non-Structural Valve Dysfunction Short Name: NonStVDys Section Name: Previous Cardiac Interventions DBTableName AdultData	on a on <i>SeqNo:</i> 850 <i>Core:</i> No <i>Harvest:</i> No
 4 Valve Thrombosis 5 Failed Repair 6 Repeat valve procedure of different valve 7 Other Long Name: Non-Structural Valve Dysfunction Short Name: NonStVDys Section Name: Previous Cardiac Interventions DBTableName AdultData Definition: Indicate the primary type of nonstructural LowValue: UsualRangeLow:	on a SeqNo: 850 Core: Nc Harvest: Nc uctural valve dysfunction.
4 Valve Thrombosis 5 Failed Repair 6 Repeat valve procedure of different valve 7 Other Long Name: Non-Structural Valve Dysfunction Short Name: NonStVDys Section Name: Previous Cardiac Interventions DBTableName AdultData Definition: Indicate the primary type of nonstructure LowValue: UsualRangeLow: HighValue: UsualRangeHigh:	on a SeqNo: 850 Core: Nc Harvest: Nc uctural valve dysfunction.
 4 Valve Thrombosis 5 Failed Repair 6 Repeat valve procedure of different valve 7 Other Long Name: Non-Structural Valve Dysfunction Short Name: NonStVDys Section Name: Previous Cardiac Interventions DBTableName AdultData Definition: Indicate the primary type of nonstructural LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Indication for Reoperation	on a SeqNo: 850 Core: No Harvest: No uctural valve dysfunction. Format: Text (categorical values specified by STS) DataLength:
4 Valve Thrombosis 5 Failed Repair 6 Repeat valve procedure of different valve 7 Other Long Name: Non-Structural Valve Dysfunction Short Name: NonStVDys Section Name: Previous Cardiac Interventions DBTableName AdultData Definition: Indicate the primary type of nonstructure LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Indication for Reoperation ParentShortName: IndReop ParentValue: = "Non-structural prosthetic	on a SeqNo: 850 Core: No Harvest: No uctural valve dysfunction. Format: Text (categorical values specified by STS) DataLength:
 4 Valve Thrombosis 5 Failed Repair 6 Repeat valve procedure of different valve 7 Other Long Name: Non-Structural Valve Dysfunction Short Name: NonStVDys Section Name: Previous Cardiac Interventions DBTableName AdultData Definition: Indicate the primary type of nonstructural Value: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Indication for Reoperation ParentShortName: IndReop ParentValue: = "Non-structural prosthetic valve dysfunction" ParentHarvestCodes: 2	on a SeqNo: 850 Core: No Harvest: No uctural valve dysfunction. Format: Text (categorical values specified by STS) DataLength:
4 Valve Thrombosis 5 Failed Repair 6 Repeat valve procedure of different valve 7 Other Long Name: Non-Structural Valve Dysfunction Short Name: NonStVDys Section Name: Previous Cardiac Interventions DBTableName AdultData Definition: Indicate the primary type of nonstructural LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: IndReop ParentValue: = "Non-structural prosthetic valve dysfunction"	on a SeqNo: 850 Core: No Harvest: No uctural valve dysfunction. Format: Text (categorical values specified by STS) DataLength:

STS Adult Cardiac Surgery Database		Version: 2.81
2 Hemolysis		
3 Entrapment by pannus, tiss or suture	sue,	
4 Sizing or positioning issue		
5 Other		
Long Name: Prev Oth Card		SeqNo: 85:
Short Name: PrOthCar		Core: No
Section Name: Previous Cardiac Interventions		Harvest: No
DBTableName AdultData		
	arteries and veins) , SVR, TMR, card	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Prev Cardiac Intervent	Format:	Text (categorical values specified by STS)
ParentShortName: PrCVInt	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
<u>Code:</u> Value:		
1 Yes		
2 No		
2 1.0		
Long Name: Previous Arrhythmia Surgery		SeqNo: 860
Short Name: POArr		Core: No
Section Name: Previous Cardiac Interventions		Harvest: No
DBTableName AdultData		
Definition: Indicate whether the patient had any	other arrhythmia s	surgery (e.g., maze procedure).
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Prev Oth Card	Format:	Text (categorical values specified by STS)
ParentShortName: PrOthCar	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
<u>Code:</u> <u>Value:</u>		
1 Yes		

STS Adult Cardiac Surgery Database		Version: 2.81
2 No		
Leve Manuel Draviews Companyital		C N
Long Name: Previous Congenital		SeqNo: 865
Short Name: PrOthCongen Section Name: Previous Cardiac Interventions		Core: No Harvest: No
		nurvest. No
DBTableName AdultData	·	
<i>Definition:</i> Indicate whether patient had a previou performed. May include, but is not lim		t surgery and/or percutaneous procedure D, TOF and PFO.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Prev Cardiac Intervent	Format:	Text (categorical values specified by STS)
ParentShortName: PrCVInt	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: Prev Oth Card-ICD		<i>SeqNo:</i> 870
Short Name: PrOCAICD		Core: No
Section Name: Previous Cardiac Interventions		Harvest: No
DBTableName AdultData		
Definition: Indicate whether the patient had a prev This does not include lead placement of		n Implantable Cardioverter/Defibrillator.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Prev Cardiac Intervent	Format:	Text (categorical values specified by STS)
ParentShortName: PrCVInt	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Prev Oth Card-Pacemaker		<i>SeqNo:</i> 875
Short Name: PrOCPace		Core: No
Section Name: Previous Cardiac Interventions		Harvest: No
DBTableName AdultData		
Definition: Indicate whether a previous permanent procedure. This does not include lead		placed anytime prior to this surgical
LowValue: UsualRangeLow:		
HighValue:UsualRangeHigh:Parent Long Name:Prev Cardiac Intervent	Format:	Text (categorical values specified by STS)
ParentShortName: PrCVInt	DataLength:	Text (categorical values specified by 515)
ParentValue: = "Yes"	Data Source:	User
ParentHarvestCodes: 1	Duiu Source.	0.501
Harvest Codes:		
<u>Code:</u> <u>Value:</u>		
1 Yes		
2 No		
Long Name: Prev Oth Card-Other		<i>SeqNo:</i> 880
Short Name: POCO		Core: No
Section Name: Previous Cardiac Interventions		Harvest: No
DBTableName AdultData		
Definition: Indicate whether the patient has underg	gone any other pr	evious cardiovascular intervention.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Prev Cardiac Intervent	Format:	Text (categorical values specified by STS)
ParentShortName: PrCVInt	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
<u>Code:</u> <u>Value:</u> 1 Yes		

STS Adult Cardiac Surgery Database		Version: 2	2.81
Long Name: Prior MI		SeqNo:	885
Short Name: PrevMI		Core:	Yes
Section Name: Preoperative Cardiac Status		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate if the patient has had at least o prior to this surgery. (Refer to training		revious myocardial infarction at any time efinition.)	•
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:	Format:	Text (categorical values specified by ST	S)
ParentShortName:	DataLength:		
ParentValue:	Data Source:	User	
ParentHarvestCodes:			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
3 Unknown			
Long Name: MI-When		SeqNo:	890
Short Name: MIWhen		Core:	Yes
Section Name: Preoperative Cardiac Status		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate the time period between the la	st documented m	yocardial infarction and surgery.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Prior MI	Format:	Text (categorical values specified by ST	S)
ParentShortName: PrevMI	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 <=6 Hrs			
2 >6 Hrs but <24 Hrs			
3 1 to 7 Days			
4 8 to 21 Days			
5 >21 Days			

STS Adult Cardiac Surgery Database		Version: 2.81	
Long Name:	Cardiac Presentation/Symptoms - At Time Of This Admission	SeqNo:	895
Short Name:	CardSympTimeOfAdm	Core:	Yes
Section Name:	Preoperative Cardiac Status	Harvest:	Yes
DBTableName	AdultData		

Definition: Indicate the patient's cardiac symptoms at the time of this admission.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			

Harvest Codes and Value Definitions:

Code:	Value:	Definition:
1	No Symptoms	No Symptoms, no angina.
2	Stable Angina	Angina without a change in frequency or pattern for the prior 6 weeks. Angina is controlled by rest and/or oral or transcutaneous medications.
3	Unstable Angina	There are three principal presentations of unstable angina: 1. Rest angina (occurring at rest and prolonged, usually >20 minutes); 2. New-onset angina (within the past 2 months, of at least Canadian Cardiovascular Society Class III severity); or 3. Increasing angina (previously diagnosed angina that has become distinctly more frequent, longer in duration, or increased by 1 or more Canadian Cardiovascular Society class to at least CCS III severity).
4	Non-ST Elevation MI (Non-STEMI)	The patient was hospitalized for a non-ST elevation myocardial infarction (STEMI) as documented in the medical record. Non-STEMIs are characterized by the presence of both criteria:
		a. Cardiac biomarkers (creatinine kinase-myocardial band, Troponin T or I) exceed the upper limit of normal according to the individual hospital's laboratory parameters with a clinical presentation which is consistent or suggestive of ischemia. ECG changes and/or ischemic symptoms may or may not be present. b. Absence of ECG changes diagnostic of a STEMI (see STEMI).
5	ST Elevation MI (STEMI)	The patient presented with a ST elevation myocardial infarction (STEMI) or its equivalent as documented in the medical record. STEMIs are characterized by the presence of both criteria:
		a. ECG evidence of STEMI: New or presumed new ST- segment elevation or new left bundle branch block not

6 Angina equivalent	documented to be resolved within 20 minutes. ST- segment elevation is defined by new or presumed new sustained ST-segment elevation at the J-point in two contiguous electrocardiogram (ECG) leads with the cut- off points: >=0.2 mV in men or >= 0.15mV in women in leads V2-V3 and/or >= 0.1 mV in other leads and lasting greater than or equal to 20 minutes. If no exact ST-elevation measurement is recorded in the medical chart, physician's written documentation of ST- elevation or Q waves is acceptable. If only one ECG is performed, then the assumption that the ST elevation persisted at least the required 20 minutes is acceptable. Left bundle branch block (LBBB) refers to new or presumed new LBBB on the initial ECG. b. Cardiac biomarkers (creatinine kinase-myocardial band, Troponin T or I) exceed the upper limit of normal according to the individual hospital's laboratory parameters a clinical presentation which is consistent or suggestive of ischemia. Note: For purposes of the Registry, ST elevation in the posterior chest leads (V7 through V9), or ST depression that is maximal in V1-3, without ST-segment elevation in other leads, demonstrating posterobasal myocardial infarction, is considered a STEMI equivalent and qualifies the patient for reperfusion therapy.
7 Other	Presentation/symptom not listed above.
Long Name: Cardiac Symptoms - At Time Of Sur	gery SeqNo: 900
Short Name: CardSympTimeOfSurg	<i>Core:</i> Yes
Section Name: Preoperative Cardiac Status	Harvest: Yes
DBTableName AdultData	
Definition: Indicate the patient's cardiac symptoms	at the time of this procedure.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	Format: Text (categorical values specified by STS)
ParentShortName:	DataLength:
ParentValue: ParentHarvestCodes:	Data Source: User
Harvest Codes and Value Definitions: <u>Code:</u> <u>Value:</u>	Definition:
1 No Symptoms	No Symptoms, no angina.
2 Stable Angina	Angina without a change in frequency or pattern for the prior 6 weeks. Angina is controlled by rest and/or oral or transcutaneous medications.

Adult Cardiac	Surg	jery Database	Version: 2.81
	3	Unstable Angina	There are three principal presentations of unstable angina: 1. Rest angina (occurring at rest and prolonged, usually >20 minutes); 2. New-onset angina (within the past 2 months, of at least Canadian Cardiovascular Society Class III severity); or 3. Increasing angina (previously diagnosed angina that has become distinctly more frequent, longer in duration, or increased by 1 or more Canadian Cardiovascular Society class to at least CCS III severity).
	4	Non-ST Elevation MI (Non-STEMI)	The patient was hospitalized for a non-ST elevation myocardial infarction (STEMI) as documented in the medical record. Non-STEMIs are characterized by the presence of both criteria:
			a. Cardiac biomarkers (creatinine kinase-myocardial band, Troponin T or I) exceed the upper limit of normal according to the individual hospital's laboratory parameters with a clinical presentation which is consistent or suggestive of ischemia. ECG changes and/or ischemic symptoms may or may not be present. b. Absence of ECG changes diagnostic of a STEMI (see STEMI).
	5	ST Elevation MI (STEMI)	The patient presented with a ST elevation myocardial infarction (STEMI) or its equivalent as documented in the medical record. STEMIs are characterized by the presence of both criteria:
			a. ECG evidence of STEMI: New or presumed new ST- segment elevation or new left bundle branch block not documented to be resolved within 20 minutes. ST- segment elevation is defined by new or presumed new sustained ST-segment elevation at the J-point in two contiguous electrocardiogram (ECG) leads with the cut- off points: >=0.2 mV in men or >= 0.15mV in women in leads V2-V3 and/or >= 0.1 mV in other leads and lasting greater than or equal to 20 minutes. If no exact ST-elevation measurement is recorded in the medical chart, physician's written documentation of ST- elevation or Q waves is acceptable. If only one ECG is performed, then the assumption that the ST elevation persisted at least the required 20 minutes is acceptable. Left bundle branch block (LBBB) refers to new or presumed new LBBB on the initial ECG. b. Cardiac biomarkers (creatinine kinase-myocardial band, Troponin T or I) exceed the upper limit of normal according to the individual hospital's laboratory parameters a clinical presentation which is consistent or suggestive of ischemia.
			Note: For purposes of the Registry, ST elevation in the

Note: For purposes of the Registry, ST elevation in the posterior chest leads (V7 through V9), or ST depression that is maximal in V1-3, without ST-segment elevation in other leads, demonstrating posterobasal myocardial

STS Adult Cardiac Surger	ry Database		Version:	2.81
		infarction, is considered a STEMI eq qualifies the patient for reperfusion t		
6 A	Angina equivalent			
7 (Other	Presentation/symptom not listed above	ve.	
Long Name: Anginal	Classification within 2 weeks		SeqNo:	905
Short Name: Anginal	Class		Core:	Yes
Section Name: Preopera	tive Cardiac Status		Harvest:	Yes
DBTableName AdultDa	ata			
The angina	l classification or symptom sta	on or symptom status within the past 2 w atus is classified as the highest grade of a gina Classification System (CCS).		t
Document FINAL Ver		R SOCIETY DATA DICTIONARY A (CCS Consensu	S
LowValue: U	UsualRangeLow:			
HighValue: U	UsualRangeHigh:			
Parent Long Name:		<i>Format:</i> Text (categorical values	specified by S	TS)
ParentShortName:		DataLength:		
ParentValue:		Data Source: User		
ParentHarvestCodes:				
Harvest Codes and	d Value Definitions:			
Code: V	Value:	Definition:		
1 (CCS Class 0	The patient has no angina.		
2 (CCS Class I	Ordinary physical activity does not c example walking or climbing stairs, a strenuous or rapid or prolonged exer- recreation.	angina occurs	with
3 (CCS Class II	Slight limitation of ordinary activity; angina occurs walking or stair climbic cold, in wind, under emotional stress few hours after awakening, walking to blocks on the level or climbing more ordinary stairs at a normal pace and in conditions.	ing after meals or only during more than two than one fligh	g the
4 (CCS Class III	Marked limitation of ordinary activit angina occurs walking one or two blo climbing one flight of stairs in normal conditions a pace.	ocks on the lev	el or
5 (CCS Class IV	Inability to carry on any physical act discomfort - angina syndrome may b		st.

STS Adult Cardiac Surgery Database	Version	Version: 2.81	
Long Name: Heart Failure within 2 weeks	SeqNo:	910	
Short Name: CHF	Core:	Yes	
Section Name: Preoperative Cardiac Status	Harvest:	Yes	

DBTableName AdultData

Definition: Indicate if there is physician documentation or report that the patient has been in a state of heart failure within the past 2 weeks.
Heart failure is defined as physician documentation or report of any of the following clinical symptoms of heart failure described as unusual dyspnea on light exertion, recurrent dyspnea occurring in the supine position, fluid retention; or the description of rales, jugular venous distension, pulmonary edema on physical exam, or pulmonary edema on chest x-ray presumed to be cardiac dysfunction.

A low ejection fraction alone, without clinical evidence of heart failure does not qualify as heart failure.

An elevated BNP without other supporting documentation should not be coded as CHF.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			
Harvest Codes:			
Code:	Value:		
1	Yes		
2	No		
3	Unknown		

Long Name: Classification-NYHA			SeqNo:	915
Short Name: ClassNYH			Core:	Yes
Section Name: Preoperative Cardiac Status			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate the patient's worst dyspnea or fr (NYHA) classification within the past 2 intended to classify angina.	,			ion
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Heart Failure within 2 weeks	Format:	Text (categorical values	specified by S	STS)
ParentShortName: CHF	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes and Value Definitions:				
Code: Value:	Definition:			

STS Adult Cardiac Sur	gery Database		Version: 2	.81
1	Class I	limitations physical ac climbing st	cardiac disease but without resulting of ordinary physical activity. Ordinary tivity (e.g., walking several blocks or airs) does not cause undue fatigue, , or dyspnea.	
2	Class II	of ordinary rest. Ordin than two bl stairs result	cardiac disease resulting in slight limitation physical activity. Patient is comfortable a ary physical activity such as walking more ocks or climbing more than one flight of ts in limiting symptoms (e.g., fatigue, , or dyspnea).	at
3	Class III	limitation or rest. Less to one to two	cardiac disease resulting in marked of physical activity. Patient is comfortable than ordinary physical activity (e.g., walki level blocks or climbing one flight of stain gue, palpitation, or dyspnea.	ng
4	Class IV	perform any Symptoms exertion. It	cardiac disease resulting in inability to y physical activity without discomfort. may be present even at rest or minimal f any physical activity is undertaken, is increased.	
Long Name: Prior H	Heart failure		SeqNo:	920
Short Name: PriorH	IF		Core:	Yes
Section Name: Preope	erative Cardiac Status		Harvest:	Yes
DBTableName Adult	Data			
A previo			weeks prior to current episode of care. of heart failure is considered evidence of	
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
Parent Long Name:		Format:	Text (categorical values specified by ST	S)
ParentShortName:		DataLength:		
ParentValue:		Data Source:	User	
ParentHarvestCodes:				
Harvest Codes:				
Code:	Value:			
1	Yes			
	No			
2	110			

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Cardiac Presentation on Admission	SeqNo: 925
Short Name: CardPres	Core: No
Section Name: Preoperative Cardiac Status	Harvest: No
DBTableName AdultData	
Definition: Indicate the type of angina present prior	r to this procedure.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Harvest Codes and Value Definitions:	
Code: Value:	Definition:
1 No Symptoms, no Angina	No Symptoms, no angina.
2 Symptoms Unlikely to be Ischemia	Pain, pressure or discomfort in the chest, neck or arms not clearly exertional or not otherwise consistent with pain or discomfort of myocardial ischemic origin. This includes patients with non-cardiac pain (e.g., pulmonary embolism, musculoskeletal, or esophageal discomfort), or cardiac pain not caused by myocardial ischemia (e.g., acute pericarditis).
3 Stable Angina	Stable Angina: Angina without a change in frequency or pattern for the six weeks prior to this surgical intervention. Angina is controlled by rest and/or oral or transcutaneous medications.
4 Unstable Angina	Unstable Angina - There are three principal presentations of unstable angina: 1) rest angina, 2) newonset (less than 2 months) angina, and 3) increasing angina (in intensity, duration and/or frequency).
5 Non-ST Elevation MI (Non- STEMI)	Non-ST Elevation MI (Non-STEMI) - non-ST elevation myocardial infarction as documented in the medical record.
6 ST Elevation MI (STEMI)	STEMIs are characterized by the presence of both criteria: A. ECG evidence of STEMI B. Cardiac biomarkers

STS Adult Cardiac Surgery Database		Version	Version: 2.81	
Long Name:	Cardiogenic Shock	SeqNo:	930	
Short Name:	CarShock	Core:	Yes	
Section Name: Preoperative Cardiac Status		Harvest:	Yes	

DBTableName AdultData

Definition:Indicate if the patient developed cardiogenic shock. Cardiogenic shock is defined as a sustained
(>30 min) episode of hypoperfusion evidenced by systolic blood pressure <90 mm Hg and/or, if
available, cardiac index <2.2 L/min per square meter determined to be secondary to cardiac
dysfunction and/or the requirement for parenteral inotropic or vasopressor agents or mechanical
support (e.g., IABP, extracorporeal circulation, VADs) to maintain blood pressure and cardiac index
above those specified levels.
Note: Transient episodes of hypotension reversed with IV fluid or atropine do not constitute
cardiogenic shock. The bemodynamic compromise (with or without extraordinary supportive)

cardiogenic shock. The hemodynamic compromise (with or without extraordinary supportive therapy) must persist for at least 30 min.

ACCF/AHA 2013

LowValue: HighValue:	UsualRangeLow: UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			
Harvest Codes:			
Code:	Value:		
3	Yes - At the time of the procedure		
4	Yes, not at the time of the procedure but within prior 24 hours		
2	No		

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Resuscitation	SeqNo: 935
Short Name: Resusc	<i>Core:</i> Yes
Section Name: Preoperative Cardiac Status	Harvest: Yes

DBTableName AdultData

Definition: Indicate whether the patient required cardiopulmonary resuscitation before the start of the operative procedure which includes the institution of anesthetic management. Capture resuscitation timeframe: within 1 hour or 1-24 hours pre-op.

LowValue: HighValue:	UsualRangeLow: UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			
Harvest Codes:			
Code:	Value:		
3	Yes - Within 1 hour of the start of the procedure		
4	Yes - More than 1 hour but less than 24 hours of the start of the procedure		
2	No		

Long Name: Arrhythmia W		on: 2.81
	Vhen SeqNo:	94
Short Name: ArrhythWhen	Core:	N
Section Name: Preoperative C	Cardiac Status Harvest:	N
DBTableName AdultData		
tachycardia, ven fibrillation, atria	cal treatment	
LowValue: Usual	RangeLow:	
	RangeHigh:	
Parent Long Name:	<i>Format:</i> Text (categorical values specified b	y STS)
ParentShortName:	DataLength:	
ParentValue:	Data Source: User	
ParentHarvestCodes:		
Harvest Codes and Val	ue Definitions:	
<u>Code:</u> Value		
1 None	<u>.</u>	
2 Remo	More than 30 days prior to procedure.	
3 Recen		
Lawa Managara Condise Amba	ythmia SeqNo:	94
Long Name: Cardiac Arrhy		94
•	Core:	
Short Name: Arrhythmia		Ye
Short Name: Arrhythmia Section Name: Preoperative C		Ye
Short Name: Arrhythmia Section Name: Preoperative C DBTableName AdultData Definition: Indicate whether		Ye Ye
Short Name: Arrhythmia Section Name: Preoperative C DBTableName AdultData Definition: Indicate whether operative proced	Cardiac Status Harvest: r the patient has a history of a cardiac rhythm disturbance before the start of	Ye Ye
Short Name: Arrhythmia Section Name: Preoperative C DBTableName AdultData Definition: Indicate whether operative proced LowValue: Usual HighValue: Usual	Cardiac Status Harvest: r the patient has a history of a cardiac rhythm disturbance before the start of dure which includes the institution of anesthetic management.	Ye Ye
Short Name: Arrhythmia Section Name: Preoperative C DBTableName AdultData Definition: Indicate whether operative proced LowValue: Usual HighValue: Usual	Cardiac Status Harvest: r the patient has a history of a cardiac rhythm disturbance before the start of dure which includes the institution of anesthetic management. <i>RangeLow:</i>	Ye Ye
Short Name: Arrhythmia Section Name: Preoperative C DBTableName AdultData Definition: Indicate whether operative proced LowValue: Usual HighValue: Usual Parent Long Name:	Cardiac Status Harvest: r the patient has a history of a cardiac rhythm disturbance before the start of dure which includes the institution of anesthetic management. <i>RangeLow:</i> <i>RangeHigh:</i>	Ye Ye the
Short Name: Arrhythmia Section Name: Preoperative C DBTableName AdultData Definition: Indicate whether operative proced LowValue: Usual HighValue: Usual Parent Long Name: ParentShortName:	Cardiac Status Harvest: r the patient has a history of a cardiac rhythm disturbance before the start of dure which includes the institution of anesthetic management. <i>RangeLow:</i> <i>RangeHigh:</i> <i>Format:</i> Text (categorical values specified b	Ye Ye
Short Name: Arrhythmia Section Name: Preoperative C DBTableName AdultData Definition: Indicate whether operative proced LowValue: Usual HighValue: Usual Parent Long Name: ParentShortName: ParentValue:	Cardiac Status Harvest: r the patient has a history of a cardiac rhythm disturbance before the start of dure which includes the institution of anesthetic management. <i>RangeLow:</i> <i>RangeHigh:</i> <i>Format:</i> Text (categorical values specified by <i>DataLength:</i>	Ye Ye
Short Name: Arrhythmia Section Name: Preoperative C DBTableName AdultData Definition: Indicate whether operative proced LowValue: Usual HighValue: Usual Parent Long Name: ParentShortName: ParentValue:	Cardiac Status Harvest: r the patient has a history of a cardiac rhythm disturbance before the start of dure which includes the institution of anesthetic management. <i>RangeLow:</i> <i>RangeHigh:</i> <i>Format:</i> Text (categorical values specified by <i>DataLength:</i>	Ye Ye the
Short Name: Arrhythmia Section Name: Preoperative C DBTableName AdultData Definition: Indicate whether operative proced LowValue: Usual HighValue: Usual Parent Long Name: ParentShortName: ParentValue: ParentHarvestCodes:	Cardiac Status Harvest: r the patient has a history of a cardiac rhythm disturbance before the start of dure which includes the institution of anesthetic management. <i>RangeLow:</i> <i>RangeHigh:</i> <i>Format:</i> Text (categorical values specified by <i>DataLength:</i> <i>Data Source:</i> User	Ye Ye the
Short Name: Arrhythmia Section Name: Preoperative C DBTableName AdultData Definition: Indicate whether operative proced LowValue: Usual HighValue: Usual Parent Long Name: ParentShortName: ParentValue: ParentHarvestCodes: Harvest Codes:	Cardiac Status Harvest: r the patient has a history of a cardiac rhythm disturbance before the start of dure which includes the institution of anesthetic management. <i>RangeLow:</i> <i>RangeHigh:</i> <i>Format:</i> Text (categorical values specified by <i>DataLength:</i> <i>Data Source:</i> User	Ye Ye the

STS Adult Cardiac Surgery Database

2 No

3 Unknown

Long Name: Cardiac Arrhythmia - VTach / VFib	SeqNo: 9	50
Short Name: ArrhythVV	Core: Y	es
Section Name: Preoperative Cardiac Status	Harvest: Y	es
DBTableName AdultData		
Definition: Indicate whether arrhythmia was VTach	or VFib.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Cardiac Arrhythmia	<i>Format:</i> Text (categorical values specified by STS))
ParentShortName: Arrhythmia	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source: User	
ParentHarvestCodes: 1		
Harvest Codes and Value Definitions:		
Code: Value:	Definition:	
1 None		
2 Remote	More than 30 days prior to procedure.	
3 Recent	Within 30 days of this procedure.	
Long Name: Cardiac Arrhythmia - Sick Sinus Syn	drome SeqNo: 9	55
Long Name: Cardiac Arrhythmia - Sick Sinus Syn Short Name: ArrhythSSS)55 Zes
· · · ·	Core: Y	
Short Name: ArrhythSSS	Core: Y	es
Short Name: ArrhythSSS Section Name: Preoperative Cardiac Status	Core: Y Harvest: Y	es
Short Name: ArrhythSSS Section Name: Preoperative Cardiac Status DBTableName AdultData	Core: Y Harvest: Y	es
Short Name: ArrhythSSS Section Name: Preoperative Cardiac Status DBTableName AdultData Definition: Indicate whether arrhythmia was sick si	Core: Y Harvest: Y	es
Short Name:ArrhythSSSSection Name:Preoperative Cardiac StatusDBTableNameAdultDataDefinition:Indicate whether arrhythmia was sick siLowValue:UsualRangeLow:	Core: Y Harvest: Y	(es (es
Short Name:ArrhythSSSSection Name:Preoperative Cardiac StatusDBTableNameAdultDataDefinition:Indicate whether arrhythmia was sick siLowValue:UsualRangeLow:HighValue:UsualRangeHigh:	Core: Y Harvest: Y nus syndrome.	(es (es
Short Name:ArrhythSSSSection Name:Preoperative Cardiac StatusDBTableNameAdultDataDefinition:Indicate whether arrhythmia was sick siLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Cardiac Arrhythmia	Core: Y Harvest: Y nus syndrome. Format: Text (categorical values specified by STS)	(es (es
Short Name:ArrhythSSSSection Name:Preoperative Cardiac StatusDBTableNameAdultDataDefinition:Indicate whether arrhythmia was sick siLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Cardiac ArrhythmiaParentShortName:Arrhythmia	Core: Y Harvest: Y nus syndrome. Format: Text (categorical values specified by STS) DataLength:	(es (es
Short Name:ArrhythSSSSection Name:Preoperative Cardiac StatusDBTableNameAdultDataDefinition:Indicate whether arrhythmia was sick siLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Cardiac ArrhythmiaParentShortName:ArrhythmiaParentValue:= "Yes"	Core: Y Harvest: Y nus syndrome. Format: Text (categorical values specified by STS) DataLength:	(es (es
Short Name: ArrhythSSS Section Name: Preoperative Cardiac Status DBTableName AdultData Definition: Indicate whether arrhythmia was sick si LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Cardiac Arrhythmia ParentShortName: Arrhythmia ParentValue: = "Yes" ParentHarvestCodes: 1	Core: Y Harvest: Y nus syndrome. Format: Text (categorical values specified by STS) DataLength:	(es (es
Short Name: ArrhythSSS Section Name: Preoperative Cardiac Status DBTableName AdultData Definition: Indicate whether arrhythmia was sick si LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Cardiac Arrhythmia ParentShortName: Arrhythmia ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes and Value Definitions:	Core: Y Harvest: Y nus syndrome. Format: Text (categorical values specified by STS) DataLength: Data Source: User	(es (es
Short Name: ArrhythSSS Section Name: Preoperative Cardiac Status DBTableName AdultData Definition: Indicate whether arrhythmia was sick sit LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Cardiac Arrhythmia ParentShortName: Arrhythmia ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes and Value Definitions: Code: Value: Value:	Core: Y Harvest: Y nus syndrome. Format: Text (categorical values specified by STS) DataLength: Data Source: User	(es (es

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Cardiac Arrhythmia - AFlutter	SeqNo: 96
Short Name: ArrhythAFlutter	<i>Core:</i> Ye
Section Name: Preoperative Cardiac Status	Harvest: Ye
DBTableName AdultData	
Definition: Indicate whether arrhythmia was atria	al flutter.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Cardiac Arrhythmia	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: Arrhythmia	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes and Value Definitions:	
Code: Value:	Definition:
1 None	
2 Remote	More than 30 days prior to procedure.
3 Recent	Within 30 days of this procedure.
Long Name: Cardiac Arrhythmia - Second Deg	*
Short Name: ArrhythSecond Section Name: Preoperative Cardiac Status	<i>Core:</i> Ye <i>Harvest:</i> Ye
	nurvest. re
DBTableName AdultData	
Definition: Indicate whether arrhythmia was seed	ond degree heart block.
LowValue: UsualRangeLow:	
HighValue:UsualRangeHigh:Parent Long Name:Cardiac Arrhythmia	<i>Format:</i> Text (categorical values specified by STS)
· ·	
ParentShortName: Arrhythmia ParentValue: = "Yes"	DataLength: Data Source: User
	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes and Value Definitions:	
<u>Code:</u> <u>Value:</u>	Definition:
1 None	
2 Remote	More than 30 days prior to procedure.
3 Recent	Within 30 days of this procedure.

STS Adult Cardiac Surgery Database		Version	n: 2.81
Long Name: Cardiac Arrhythmia - Third Degi	ee Heart Block	SeqNo:	97
Short Name: ArrhythThird		Core:	Ye
Section Name: Preoperative Cardiac Status		Harvest:	Ye
DBTableName AdultData			
Definition: Indicate whether arrhythmia was th	ird degree heart blo	ck.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Cardiac Arrhythmia	Format:	Text (categorical values specified by	STS)
ParentShortName: Arrhythmia	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes and Value Definitions:			
Code: Value:	Definition:		
1 None			
2 Remote	More than	30 days prior to procedure.	
3 Recent	Within 30	days of this procedure.	
Long Name: Cardiac Arrhythmia - Permanent	ly Paced Rhythm	SeqNo:	97
Short Name: ArrhythPPaced	.)	Core:	Ye
Section Name: Preoperative Cardiac Status		Harvest:	Ye
DBTableName AdultData			
	ermanently paced rh	nythm, evidenced by pacemaker activity	y
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Cardiac Arrhythmia	Format:	Text (categorical values specified by	STS)
ParentShortName: Arrhythmia	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Cardiac Surgery Database		Version: 2.	.81
Long Name: Cardiac Arrhythmia - Atrial Fibrilla	ation	SeqNo:	98(
Short Name: ArrhythAFib		Core:	Yes
Section Name: Preoperative Cardiac Status		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether arrhythmia was atria	l fibrillation and i	f so, which type.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Cardiac Arrhythmia	Format:	Text (categorical values specified by ST	S)
ParentShortName: Arrhythmia	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 None			
2 Paroxysmal			
3 Continuous / persistent			
Long Name: Cardiac Arrhythmia - Atrial Fibrilla	ation Duration	SeqNo:	985
Short Name: ArrhythAFibDur		Core:	Yes
Section Name: Preoperative Cardiac Status		Harvest:	Yes
DBTableName AdultData			
<i>DBTableName</i> AdultData <i>Definition:</i> Indicate the duration of atrial fibrillati	ion.		
	ion.		
Definition: Indicate the duration of atrial fibrillati LowValue: UsualRangeLow:	ion.		
Definition:Indicate the duration of atrial fibrillatiLowValue:UsualRangeLow:	on. Format:	Text (categorical values specified by ST	5)
Definition:Indicate the duration of atrial fibrillatiLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Cardiac Arrhythmia - Atrial		Text (categorical values specified by ST	5)
Definition:Indicate the duration of atrial fibrillatiLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Cardiac Arrhythmia - Atrial FibrillationParentShortName:ArrhythAFib	Format:		S)
Definition:Indicate the duration of atrial fibrillatiLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Cardiac Arrhythmia - Atrial FibrillationParentShortName:ArrhythAFib	Format: DataLength:		S)
Definition:Indicate the duration of atrial fibrillatiLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Cardiac Arrhythmia - Atrial FibrillationParentShortName:ArrhythAFibParentValue:= "Continuous / persistent"	Format: DataLength:		S)
Definition:Indicate the duration of atrial fibrillatiLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Cardiac Arrhythmia - Atrial FibrillationParentShortName:ArrhythAFibParentValue:= "Continuous / persistent"ParentHarvestCodes:3	Format: DataLength:		S)
Definition:Indicate the duration of atrial fibrillatiLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Cardiac Arrhythmia - Atrial FibrillationParentShortName:ArrhythAFibParentValue:= "Continuous / persistent"ParentHarvestCodes:3Harvest Codes:	Format: DataLength: Data Source:		S)
Definition: Indicate the duration of atrial fibrillation LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Cardiac Arrhythmia - Atrial Fibrillation ParentShortName: ArrhythAFib ParentValue: = "Continuous / persistent" ParentHarvestCodes: 3 Harvest Codes: <u>Code: Value:</u>	Format: DataLength: Data Source:		S)

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Arrhythmia Type-Vtach/Vfib		<i>SeqNo:</i> 990
Short Name: ArrhyVtach		Core: No
Section Name: Preoperative Cardiac Status		Harvest: No
DBTableName AdultData		
<i>Definition:</i> Indicate whether sustained ventricular ta procedure.	achycardia or fil	brillation was present within 30 days of the
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Arrhythmia When	Format:	Text (categorical values specified by STS)
ParentShortName: ArrhythWhen	DataLength:	
<i>ParentValue:</i> = "Recent"	Data Source:	User
ParentHarvestCodes: 3		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: Arrhythmia Type-Second Degree Hea	art Block	SeqNo: 995
Short Name: ArrhyVtachHrtBlk		Core: No
Section Name: Preoperative Cardiac Status		Harvest: No
DBTableName AdultData		
Definition: Indicate whether Second Degree Heart H	Block was prese	ent within 30 days of the procedure.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Arrhythmia When	Format:	Text (categorical values specified by STS)
ParentShortName: ArrhythWhen	DataLength:	
<i>ParentValue:</i> = "Recent"	Data Source:	User
ParentHarvestCodes: 3		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Arrhythmia Type-Sick Sinus Syndrome	SeqNo: 1000
Short Name: ArrhyVtachSicSinSyn	Core: No
Section Name: Preoperative Cardiac Status	Harvest: No
DBTableName AdultData	
Definition: Indicate whether Sick Sinus Syndrome was prese	ent within 30 days of the procedure.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Arrhythmia When Forma	t: Text (categorical values specified by STS)
ParentShortName: ArrhythWhen DataL	ength:
ParentValue: = "Recent" Data S	Source: User
ParentHarvestCodes: 3	
Harvest Codes:	
Code: Value:	
1 Yes	
2 No	
<i>Long Name:</i> Arrhythmia Type-Third Degree Heart Block	SeqNo: 1005
Short Name: ArrhyTHB	Core: No
Section Name: Preoperative Cardiac Status	Harvest: No
DBTableName AdultData	
Definition: Indicate whether third degree heart block was pr	esent within thirty days of the procedure.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Arrhythmia When Forma	t: Text (categorical values specified by STS)
ParentShortName: ArrhythWhen DataL	ength:
ParentValue: = "Recent" Data S	Cource: User
ParentHarvestCodes: 3	
Harvest Codes:	
Code: Value:	
1 Yes	
2 No	

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Arrhythmia Type-Afib/Aflutter		SeqNo: 1010
Short Name: ArrhyAfib		Core: No
Section Name: Preoperative Cardiac Status		Harvest: No
DBTableName AdultData		
Definition: Indicate whether atrial fibrillation or flut	ter was present	within thirty days of the procedure.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Arrhythmia When	Format:	Text (categorical values specified by STS)
ParentShortName: ArrhythWhen	DataLength:	
<i>ParentValue:</i> = "Recent"	Data Source:	User
ParentHarvestCodes: 3		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Lana Nama, Afib/Afluttar Tura		CagNat 1014
Long Name: Afib/Aflutter Type Short Name: ArrhyAfibTy		SeqNo: 1015 Core: No
Short Name:ArrhyAfibTySection Name:Preoperative Cardiac Status		Core: No Harvest: No
DBTableName AdultData		iturvest. in
<i>Definition:</i> Indicate whether preoperative AFib/Aflu	ttor is perovus	nal or continuous/persistent
	itter is paroxysi	har of continuous/persistent.
LowValue: UsualRangeLow:		
HighValue:UsualRangeHigh:Parent Long Name:Arrhythmia Type-Afib/Aflutter	Format:	Text (categorical values specified by STS)
ParentShortName: ArrhyAfib		Text (categorical values specified by 515)
ParentValue: = "Yes"	DataLength: Data Source:	User
ParentHarvestCodes: 1	Duiu Source.	0.501
Harvest Codes and Value Definitions:	Definition:	
<u>Code:</u> <u>Value:</u> 1 Paroxysmal	I.e., sporadi	0
2 Continuous/persistent		ongstanding permanent or continuous
		sugarding permanent of continuous

STS Adult Cardiac Sur	gery Database			Versior	n: 2.81
Long Name: Meds	-ACE Inhibitors or ARB Within	48 Hours		SeqNo:	1020
Short Name: MedA	ACEI48			Core:	Yes
Section Name: Preop	erative Medications			Harvest:	Yes
DBTableName Adul	tData				
	whether the patient received AG indicated for LV dysfunction or		ARB within 48 hours p	receding surge	ery
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:		Format:	Text (categorical value	es specified by	STS)
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentHarvestCodes:					
Harvest Codes	:				
Code	<u>Value:</u>				
1	Yes				
2	No				
3	Contraindicated				
4	Unknown				
Long Name: Meds	-ADP Inhibitors Within Five Da	iys		SeqNo:	1025
Short Name: Med	ADP5Days			Core:	Yes
Section Name: Preop	erative Medications			Harvest:	Yes
DBTableName Adul	tData				
Definition: Indicate	whether the patient has received	d ADP Inhibitor	rs within 5 days precedir	ng surgery.	
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:		Format:	Text (categorical value	es specified by	STS)
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentHarvestCodes:					
Harvest Codes	:				
Code	<u>: Value:</u>				
1	Yes				
2	No				
3	Contraindicated				
4	Unknown				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Meds-ADP Inhibitors Discontinuatio	n		SeqNo:	103
Short Name: MedADPIDis			Core:	Ye
Section Name: Preoperative Medications			Harvest:	Ye
DBTableName AdultData				
Definition: Indicate the number of days prior to sur hours, enter "0".	gery ADP Inhib	itor use was discontinue	d. If less than	24
LowValue: 0 UsualRangeLow:				
HighValue: 5 UsualRangeHigh:				
Parent Long Name: Meds-ADP Inhibitors Within Five Days	Format:	Integer		
ParentShortName: MedADP5Days	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
DBTableName AdultData Definition: Indicate whether and when the patient r	eceived Amioda	rone therapy prior to sur	gery.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name:	Format:	Text (categorical value	s specified by	STS)
ParentShortName:	DataLength:			
ParentValue:	Data Source:	User		
ParentHarvestCodes:				
Harvest Codes:				
Code: Value:				
1 Yes, on home therapy				
2 Yes, therapy started this admission				
3 No				

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Meds-Anticoagulants Within 48 Hours	5	<i>SeqNo:</i> 1040
Short Name: MedACoag		Core: Yes
Section Name: Preoperative Medications		Harvest: Yes
DBTableName AdultData		
Definition: Indicate whether the patient received IV surgery. Do NOT include Coumadin or one-time	-	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name:	Format:	Text (categorical values specified by STS)
ParentShortName:	DataLength:	
ParentValue:	Data Source:	User
ParentHarvestCodes:		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: Meds-Anticoagulants-Medication Nam	ne	SeqNo: 1045
Short Name: MedACMN		Core: Yes
Section Name: Preoperative Medications		Harvest: Yes
DBTableName AdultData		
Definition: Indicate the name of the anticoagulant the	e patient receiv	ved within 48 hours preceding surgery.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Meds-Anticoagulants Within 48 Hours	Format:	Text (categorical values specified by STS)
ParentShortName: MedACoag	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentValue: = "Yes" ParentHarvestCodes: 1	Data Source:	User
	Data Source:	User
ParentHarvestCodes: 1	Data Source:	User
ParentHarvestCodes: 1 Harvest Codes:	Data Source:	User
ParentHarvestCodes: 1 Harvest Codes: <u>Code:</u> <u>Value:</u>	Data Source:	User

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Meds-Antiplatelets Within 5	5 Days SeqNo: 1050
Short Name: MedAplt5Days	Core: Ye
Section Name: Preoperative Medications	Harvest: Ye
DBTableName AdultData	
Definition: Indicate whether the patient ha	as received Antiplatelets within 5 days preceding surgery.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Harvest Codes:	
Code: Value:	
1 Yes	
2 No	
3 Contraindicated	
4 Unknown	
Long Name: Meds-Aspirin	SeqNo: 105:
Short Name: MedASA	Core: Ye
Section Name: Preoperative Medications	Harvest: Ye
DBTableName AdultData	
Definition: Indicate whether or not the pat	tient received Aspirin or Ecotrin within 5 days preceding surgery.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Harvest Codes:	
Code: Value:	
<u>Code:</u> <u>Value:</u> 1 Yes	
1 Yes	

STS Adult Card	diac Surgery Database	Version	: 2.81
Long Name:	Meds-Beta Blockers	SeqNo:	1060
Short Name:	MedBeta	Core:	Yes
Section Name:	Preoperative Medications	Harvest:	Yes
DBTableName	e AdultData		

Definition: Indicate whether or not the patient received beta blockers within 24 hours preceding surgery, or if beta blocker was contraindicated. The contraindication must be documented in the medical record by a physician, nurse practitioner, or physician assistant. A "hold order" is not considered a contraindication.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			

Harvest Codes:

Code: Value: 1 Yes 2 No 3 Contraindicated

Long Name:	Meds-Beta Blocker Therapy	SeqNo:	1065
Short Name:	MedBetaTher	Core:	Yes
Section Name:	Preoperative Medications	Harvest:	Yes

DBTableName AdultData

Definition: Indicate whether the patient received beta blocker therapy for at least 2 weeks prior to surgery.

LowValue: HighValue:	UsualRangeLow: UsualRangeHigh:		
Parent Long Name:	o suurien gerran	Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			
Harvest Codes:			
Code:	Value:		
1	Yes		
2	No		
3	Contraindicated		
4	Unknown		

STS Adult Cardiac Surg	gery Database		Versio	n: 2.81
Long Name: Meds-	Calcium Channel Blocker	Therapy	SeqNo:	107
Short Name: MedC	ChanTher		Core:	Ye
Section Name: Preope	rative Medications		Harvest:	Ye
DBTableName Adult	Data			
Definition: Indicate surgery.	whether the patient received	d calcium channel l	blocker therapy for at least 2 weeks pri	or to
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
Parent Long Name:		Format:	Text (categorical values specified by	STS)
ParentShortName:		DataLength:		
ParentValue:		Data Source:	User	
ParentHarvestCodes:				
Harvest Codes:				
	Value:			
1	Yes			
2	No			
3	Contraindicated			
4	Unknown			
Long Name: Meds-	Coumadin		SeqNo:	1075
Short Name: MedC	oum		Core:	Ye
Section Name: Preope	rative Medications		Harvest:	Ye
DBTableName Adult	Data			
Definition: Indicate	whether the patient received	d Coumadin within	24 hours preceding surgery.	
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
Parent Long Name:		Format:	Text (categorical values specified by	STS)
ParentShortName:		DataLength:		
ParentValue:		Data Source:	User	
ParentHarvestCodes:				
Harvest Codes:				
Code:	Value:			
1	Yes			
2	No			
4	Unknown			

STS Adult Cardiac Sur	gery Database		Versi	on: 2.81
Long Name: Meds-	Factor Xa Inhibitors		SeqNo:	1080
Short Name: MedX	aInhibitors		Core:	Ye
Section Name: Preope	erative Medications		Harvest:	Ye
DBTableName Adult	Data			
Definition: Indicate	whether the patient received f	actor Xa inhibito	rs within 24 hours preoperatively.	
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
Parent Long Name:		Format:	Text (categorical values specified b	y STS)
ParentShortName:		DataLength:		
ParentValue:		Data Source:	User	
ParentHarvestCodes:				
Harvest Codes:				
Code:	Value:			
1	Yes			
2	No			
3	Unknown			
Long Name: Meds-	Glycoprotein IIb/IIIa Inhibito	r	SeqNo:	1085
Short Name: MedG	P		Core:	Yes
Section Name: Preope	rative Medications		Harvest:	Yes
DBTableName Adult	Data			
Definition: Indicate surgery.	whether the patient received (Glycoprotein IIb/I	IIIa inhibitors within 24 hours preced	ing
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
Parent Long Name:		Format:	Text (categorical values specified b	y STS)
ParentShortName:		DataLength:		
		~ ~		
ParentValue:		Data Source:	User	
ParentValue: ParentHarvestCodes:		Data Source:	User	
		Data Source:	User	
ParentHarvestCodes: Harvest Codes:	<u>Value:</u>	Data Source:	User	
ParentHarvestCodes: Harvest Codes:	<u>Value:</u> Yes	Data Source:	User	
ParentHarvestCodes: Harvest Codes: <u>Code:</u>		Data Source:	User	

STS Adult Cardiac Surg	ery Database		Versi	on: 2.81
Long Name: Meds-	Glycoprotein IIb/IIIa Inhibitor	r-Medication Nar	ne SeqNo:	1090
Short Name: MedG	PMN		Core:	Yes
Section Name: Preoper	rative Medications		Harvest:	Yes
DBTableName AdultI	Data			
Definition: Indicate t preceding		IIb/IIIa Inhibitor	the patient received within 24 hours	
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
	/leds-Glycoprotein IIb/IIIa nhibitor	Format:	Text (categorical values specified b	oy STS)
ParentShortName: M	ledGP	DataLength:		
ParentValue: =	"Yes"	Data Source:	User	
ParentHarvestCodes:	1			
Harvest Codes:				
Code:	Value:			
1	Abciximab (ReoPro)			
2	Eptifibatide (Integrilin)			
3	Tirofiban (Aggrastat)			
4	Other			
Long Name: Meds-I	notropes		SeqNo:	1095
Short Name: MedIn			Core:	Yes
Section Name: Preope			Harvest:	Yes
DBTableName AdultI				
		V inotropic agent	s within 48 hours preceding surgery	
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
Parent Long Name:		Format:	Text (categorical values specified b	y STS)
ParentShortName:		DataLength:		
ParentValue:		Data Source:	User	
ParentHarvestCodes:				
Harvest Codes:				
Code:	Value:			
1	Yes			

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Meds-Lipid Lowering	SeqNo: 110
Short Name: MedLipid	Core: Ye
Section Name: Preoperative Medications	Harvest: Ye
DBTableName AdultData	
Definition: Indicate whether or not the patient surgery.	received lipid lowering medication within 24 hours preceding
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Harvest Codes:	
<u>Code:</u> Value:	
1 Yes	
2 No	
3 Contraindicated	
4 Unknown	
Long Name: Meds-Lipid Lowering-Medication	on Type SeqNo: 110
Short Name: MedLipMN	Core: Ye
Section Name: Preoperative Medications	Harvest: Ye
DBTableName AdultData	
Definition: Indicate the type of lipid lowering a surgery.	medication the patient received within 24 hours preceding
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Meds-Lipid Lowering	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: MedLipid	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes:	
Code: Value:	
1 Statin	
2 Non-statin	
4 Other	

STS Adult Cardiac Surgery Database		Versio	on: 2.81
Long Name: Meds-Long-Acting Nitrate The	rapy	SeqNo:	111(
Short Name: MedLongActNit		Core:	Yes
Section Name: Preoperative Medications		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether the patient receiv	ved long-acting nitrate	therapy for at least 2 weeks prior to s	surgery.
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:	Format:	Text (categorical values specified by	y STS)
ParentShortName:	DataLength:		
ParentValue:	Data Source:	User	
ParentHarvestCodes:			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
3 Contraindicated			
4 Unknown			
Long Name: Meds-Nitrates-I.V.		SeqNo:	1115
Short Name: MedNitIV		Core:	Yes
Section Name: Preoperative Medications		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether the patient receiv	ved IV Nitrates within	24 hours preceding surgery.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:	Format:	Text (categorical values specified by	y STS)
ParentShortName:	DataLength:		
ParentValue:	Data Source:	User	
ParentHarvestCodes:			
Harvest Codes:			
Code: Value:			
<u>Code:</u> <u>Value:</u> 1 Yes			

STS Adult Cardiac Surgery Database		Version	1: 2.81
Long Name: Meds-Other Antianginal Medicat	ion Therapy	SeqNo:	1120
Short Name: MedOthAntiang		Core:	Yes
Section Name: Preoperative Medications		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether the patient receive prior to surgery.	d any other antianginal	medication therapy for at least 2 we	eeks
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:	Format: To	ext (categorical values specified by	STS)
ParentShortName:	DataLength:		
ParentValue:	Data Source: U	ser	
ParentHarvestCodes:			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
3 Contraindicated			
4 Unknown			
Long Name: Meds-Preoperative Antiarrhythm	ics	SeqNo:	1125
Short Name: MedAArrhy		Core:	No
Section Name: Preoperative Medications		Harvest:	No
DBTableName AdultData			
Definition: Indicate whether or not the patient w	was on antiarrhythmics	preoperatively.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:	Format: To	ext (categorical values specified by	STS)
ParentShortName:	DataLength:		
ParentValue:	Data Source: U	ser	
ParentHarvestCodes:			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Cardiac Surgery Database		า: 2.81
Long Name: Meds-Steroids	SeqNo:	1130
Short Name: MedSter	Core:	Yes
Section Name: Preoperative Medications	Harvest:	Yes

DBTableName AdultData

Definition: Indicate whether the patient was taking steroids within 24 hours of surgery. This does not include a one-time dose related to prophylaxis therapy (i.e. IV dye exposure for cath procedure or surgery preinduction period). Non-systemic medications are not included in this category (i.e., nasal sprays, topical creams).

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			

Harvest Codes:

Code:	Value:
1	Yes
2	No
3	Contraindicated
4	Unknown

Long Name:	Meds-Thrombin Inhibitors	SeqNo:	1135
Short Name:	MedThrombinIn	Core:	Yes
Section Name:	· Preoperative Medications	Harvest:	Yes
DBTableName	e AdultData		

Definition: Indicate whether the patient received thrombin inhibitors within 24 hours preoperatively.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			
Harvest Codes:			
Code:	Value:		
1	Yes		
2	No		
3	Contraindicated		
4	Unknown		

STS Adult Cardiac Surgery Database		Version: 2	2.81
Long Name: Meds-Thrombolytics		SeqNo:	1140
Short Name: MedThrom		Core:	Yes
Section Name: Preoperative Medications		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether the patient received the	hrombolytics wit	hin 48 hours preoperatively.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:	Format:	Text (categorical values specified by ST	ΓS)
ParentShortName:	DataLength:		
ParentValue:	Data Source:	User	
ParentHarvestCodes:			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
Long Name: Cardiac Catheterization Performed		SeqNo:	1145
Short Name: CarCathPer		Core:	Yes
Section Name: Hemodynamics/Cath/Echo		Harvest:	Yes
DBTableName AdultData		11417051	105
Definition: Indicate whether cardiac catheterization	n and/or CT angi	o was performed	
	in und/or or ung	lo was performed.	
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:			
Parent Long Name:	Format:	Text (categorical values specified by ST	ES)
ParentShortName:	DataLength:		,
ParentValue:	Data Source:	User	
ParentHarvestCodes:	2 5011		
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

515 Adult Cardiac St	urgery Database			Versio	n: 2.81
Long Name: Card	liac Catheterization Date			SeqNo:	1150
Short Name: Car	CathDt			Core:	Yes
Section Name: Hem	odynamics/Cath/Echo			Harvest:	Yes
DBTableName Adu	ıltData				
Definition: Indicat	te the date cardiac catheterization	on was performed			
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:	Cardiac Catheterization Performed	Format:	Date mm/dd/yyyy		
ParentShortName:	CarCathPer	DataLength:			
ParentValue:	= "Yes"	Data Source:	User		
ParentHarvestCodes	s: 1				
Long Name: Cord	onary Anatomy/Disease Known	n		SeqNo:	1155
Short Name: Cor.	AnatDisKnown			Core:	Yes
Section Name: Hem	odynamics/Cath/Echo			Harvest:	Yes
DBTableName Adu	ıltData				
Definition: Indicat surgery	te whether coronary artery anat y.	omy and/or diseas	se is documented and a	vailable prior to	
-		omy and/or diseas	e is documented and a	vailable prior to	
surgery	у.	omy and/or diseas	se is documented and a	ivailable prior to	
surgery	y. UsualRangeLow:	omy and/or diseas <i>Format:</i>	e is documented and a Text (categorical val	-	
surgery LowValue: HighValue:	y. UsualRangeLow:			-	
surgery LowValue: HighValue: Parent Long Name:	y. UsualRangeLow:	Format:	Text (categorical val	-	
surgery LowValue: HighValue: Parent Long Name: ParentShortName:	y. UsualRangeLow: UsualRangeHigh:	Format: DataLength:	Text (categorical val	-	
surgery LowValue: HighValue: Parent Long Name: ParentShortName: ParentValue:	y. UsualRangeLow: UsualRangeHigh: s:	Format: DataLength:	Text (categorical val	-	
surgery LowValue: HighValue: Parent Long Name: ParentShortName: ParentValue: ParentHarvestCode: Harvest Code	y. UsualRangeLow: UsualRangeHigh: s:	Format: DataLength:	Text (categorical val	-	
surgery LowValue: HighValue: Parent Long Name: ParentShortName: ParentValue: ParentHarvestCode: Harvest Code <u>Cod</u>	y. UsualRangeLow: UsualRangeHigh: s:	Format: DataLength:	Text (categorical val	-	

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Dominance			SeqNo:	1160
Short Name: Dominance			Core:	Ye
Section Name: Hemodynamics/Cath/Echo			Harvest:	Ye
DBTableName AdultData				
Definition: Indicate whether coronary artery domina	ince is docume	nted prior to surgery.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Coronary Anatomy/Disease Known	Format:	Text (categorical values	s specified by	STS)
ParentShortName: CorAnatDisKnown	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Left				
2 Right				
3 Co-dominant				
4 Not documented				
Long Name: Source(s) Used To Quantify Stenosis			SeqNo:	1165
Short Name: StenSource			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate source or sources used to quant	ify coronary art	ery stenosis.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Coronary Anatomy/Disease Known	Format:	Text (categorical values	s specified by	STS)
ParentShortName: CorAnatDisKnown	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Angiogram				
2 CT				
3 IVUS				
4 Progress/OP Note				
5 Other				

STS Adult Cardiac Surgery Database

6 Multiple

Long Name:	Num Dis Vessels	SeqNo:	1170
Short Name:	NumDisV	Core:	Yes
Section Name:	Hemodynamics/Cath/Echo	Harvest:	Yes

DBTableName AdultData

Definition: Indicate the number of diseased major native coronary vessel systems: LAD system, Circumflex system, and/or Right system with >= 50% narrowing of any vessel preoperatively.
 NOTE: Left main disease (>=50%) is counted as TWO vessels (LAD and Circumflex, which may include a Ramus Intermedius). For example, left main and RCA would count as three total.

A vessel that has ever been considered diseased, should always be considered diseased.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Coronary Anatomy/Disease Known	Format:	Text (categorical values specified by STS)
ParentShortName:	CorAnatDisKnown	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCode.	s: 1		

Harvest Codes and Value Definitions:

Code:	Value:	Definition:
1	None	No significant coronary obstructive disease.
2	One	
3	Two	
4	Three	

Long Name:	Percent Native Artery Stenosis Known	SeqNo:	1175
Short Name:	PctStenKnown	Core:	Yes
Section Name:	Hemodynamics/Cath/Echo	Harvest:	Yes

DBTableName AdultData

Definition: Indicate whether the percent stenosis of native coronary stenosis is known.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Num Dis Vessels	Format:	Text (categorical values specified by STS)
ParentShortName:	NumDisV	DataLength:	
ParentValue:	= "One", "Two" or "Three"	Data Source:	User
ParentHarvestCode	s: 2 3 4		
Harvest Code	25:		
Cod	le: <u>Value:</u>		
	1 Yes		

STS Adult Cardiac Surgery Database		Version: 2.81
2 110		
Long Name: Graft(s) Present		<i>SeqNo:</i> 1180
Short Name: GraftsPrsnt		Core: Yes
Section Name: Hemodynamics/Cath/Echo		Harvest: Yes
DBTableName AdultData		
Definition: Indicate whether one or more coronary	artery bypass gr	afts are present prior to this surgery.
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:		
Parent Long Name: Num Dis Vessels	Format:	Text (categorical values specified by STS)
ParentShortName: NumDisV	DataLength:	
<i>ParentValue:</i> = "One", "Two" or "Three"	Data Source:	User
ParentHarvestCodes: 2 3 4		
Harvest Codes:		
<u>Code:</u> <u>Value:</u>		
1 Yes		
2 No		
Long Name: Stent(s) Present		<i>SeqNo:</i> 1185
Short Name: StentPrsnt		Core: Yes
Section Name: Hemodynamics/Cath/Echo		Harvest: Yes
DBTableName AdultData		
<i>Definition:</i> Indicate whether one or more intracoro	nary stents are p	resent prior to this surgery.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:	_	
Parent Long Name: Num Dis Vessels	Format:	Text (categorical values specified by STS)
ParentShortName: NumDisV	DataLength:	
ParentValue: = "One", "Two" or "Three"	Data Source:	User
ParentHarvestCodes: 2 3 4		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		

STS Adult Cardiac Surgery Database			Versior	n: 2.81
Long Name: Fractional Flow Reserve (FFR) Perfor	rmed		SeqNo:	1190
Short Name: FFRPerf			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether Fractional Flow Reserve	ve (FFR) was p	erformed.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Num Dis Vessels	Format:	Text (categorical value	es specified by	STS)
ParentShortName: NumDisV	DataLength:			
<i>ParentValue:</i> = "One", "Two" or "Three"	Data Source:	User		
ParentHarvestCodes: 2 3 4				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Percent Stenosis - Left Main			SeqNo:	1195
Short Name: PctStenLMain			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent stenosis in t	his vessel at the	time of this surgery.		
LowValue: 0 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: Percent Native Artery Stenosis Known	Format:	Integer		
ParentShortName: PctStenKnown	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Surgery Database		Versi	on: 2.81
Long Name: Graft Stenosis - Left Main		SeqNo:	1200
Short Name: GrftStenLMain		Core:	Ye
Section Name: Hemodynamics/Cath/Echo		Harvest:	Ye
DBTableName AdultData			
Definition: Indicate the highest percent stenos	is in this graft at the	time of this surgery.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Graft(s) Present	Format:	Text (categorical values specified b	y STS)
ParentShortName: GraftsPrsnt	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Patent			
2 Stenosis $\geq 50\%$			
3 100% occlusion			
4 Not documented			
Long Name: Stent Stenosis - Left Main		SagNor	1205
Long Name: Stent Stenosis - Left Main Short Name: StntStenLMain		SeqNo: Core:	Yes
Section Name: Hemodynamics/Cath/Echo		Harvest:	Yes
DBTableName AdultData		1100 7007	10
Definition: Indicate the highest percent of ster	nt stenosis at the time	of this surgery	
	it stenosis at the time	of this surgery.	
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:			
Parent Long Name: Stent(s) Present	Format:	Text (categorical values specified b	v STS)
ParentShortName: StentPrsnt	DataLength:		, 212)
ParentValue: = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Harvest Codes: Code: Value:			
Harvest Codes: <u>Code:</u> <u>Value:</u> 1 Patent			
Code: Value:			

STS Adult Cardiac Surgery Database			Version	n: 2.81
Long Name: Fractional Flow Reserve (FFR) - Lef	t Main		SeqNo:	1210
Short Name: FFRLMain			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the FFR in this vessel.				
LowValue: 0.00 UsualRangeLow:				
HighValue: 1.00 UsualRangeHigh:				
Parent Long Name: Fractional Flow Reserve (FFR) Performed	Format:	Real		
ParentShortName: FFRPerf	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

Long Name: Percent Stenosis - Proximal LAD			SeqNo:	1215
Short Name: PctStenProxLAD			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent stenosis in the	nis vessel at the	time of this surgery.		
LowValue: 0 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: Percent Native Artery Stenosis Known	Format:	Integer		
ParentShortName: PctStenKnown	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Graft Stenosis - Proximal LAD			SeqNo:	1220
Short Name: GrftStenProxLAD			Core:	Ye
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent stenosis i	in this graft at the t	ime of this surgery.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Graft(s) Present	Format:	Text (categorical va	lues specified by	STS)
ParentShortName: GraftsPrsnt	DataLength:			
ParentValue: = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Patent				
2 Stenosis $\geq 50\%$				
3 100% occlusion				
4 Not documented				
			C N	100
Long Name: Stent Stenosis - Proximal LAD			SeqNo:	1225
Short Name: StntStenProxLAD			Core: Harvest:	Yes Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	res
DBTableName AdultData		0.1.1		
<i>Definition:</i> Indicate the highest percent of stent s	tenosis at the time	of this surgery.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:	_			
Parent Long Name: Stent(s) Present	Format:	Text (categorical va	lues specified by	STS)
ParentShortName: StentPrsnt	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Patent				
2 Stenosis $\geq 50\%$				

STS Adult Cardiac Surgery Database			Versior	n: 2.81
Long Name: Fractional Flow Reserve (FFR) - Proc	ximal LAD		SeqNo:	1230
Short Name: FFRProxLAD			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the FFR in this vessel.				
LowValue: 0.00 UsualRangeLow:				
HighValue: 1.00 UsualRangeHigh:				
Parent Long Name: Fractional Flow Reserve (FFR) Performed	Format:	Real		
ParentShortName: FFRPerf	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

Long Name: Percent Stenosis - Mid LAD			SeqNo:	1235
Short Name: PctStenMidLAD			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent stenosis in the	his vessel at the	time of this surgery.		
LowValue: 0 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: Percent Native Artery Stenosis Known	Format:	Integer		
ParentShortName: PctStenKnown	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Graft Stenosis - Mid LAD			SeqNo:	1240
Short Name: GrftStenMidLAD			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent stenosi	is in this graft at the	time of this surgery.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Graft(s) Present	Format:	Text (categorical value	es specified by	STS)
ParentShortName: GraftsPrsnt	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source	: User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Patent				
2 Stenosis $\geq 50\%$				
3 100% occlusion				
4 Not documented				
Long Name: Stent Stenosis - Mid LAD			SeqNo:	1245
Short Name: StattStenMidLAD			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent of sten	t stenosis at the time	e of this surgery.		
LowValue: UsualRangeLow:		0,		
HighValue: UsualRangeHigh:				
Parent Long Name: Stent(s) Present	Format:	Text (categorical value	es specified by	STS)
ParentShortName: StentPrsnt	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source			
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Patent				
2 Stenosis >=50%				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Fractional Flow Reserve (FFR) - M	/id LAD		SeqNo:	1250
Short Name: FFRMidLAD			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the FFR in this vessel at the	time of this surge	ery.		
LowValue: 0.00 UsualRangeLow:				
HighValue: 1.00 UsualRangeHigh:				
Parent Long Name: Fractional Flow Reserve (FFR) Performed	Format:	Real		
ParentShortName: FFRPerf	DataLength	<i>ı:</i>		
<i>ParentValue:</i> = "Yes"	Data Source	e: User		
ParentHarvestCodes: 1				

Long Name: Percent Stenosis - Distal LAD			SeqNo:	1255
Short Name: PctStenDistLAD			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent stenosis in the	nis vessel at the	time of this surgery.		
LowValue: 0 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: Percent Native Artery Stenosis Known	Format:	Integer		
ParentShortName: PctStenKnown	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Graft Stenosis - Distal LAD			SeqNo:	1260
Short Name: GrftStenDistLAD			Core:	Ye
Section Name: Hemodynamics/Cath/Echo			Harvest:	Ye
DBTableName AdultData				
Definition: Indicate the highest percent stenosis	s in this graft at the	time of this surgery.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Graft(s) Present	Format:	Text (categorical val	ues specified by	STS)
ParentShortName: GraftsPrsnt	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source	: User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Patent				
2 Stenosis $\geq 50\%$				
3 100% occlusion				
4 Not documented				
Long Name: Stent Stenosis - Distal LAD			SeqNo:	1265
Short Name: StattStenDistLAD			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent of stent	stenosis in this ves	ssel at the time of this s	urgery.	
LowValue: UsualRangeLow:			6 9	
HighValue: UsualRangeHigh:				
Parent Long Name: Stent(s) Present	Format:	Text (categorical val	ues specified by	STS)
ParentShortName: StentPrsnt	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source	: User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Patent				
 Patent Stenosis >=50% 				

STS Adult Cardiac Surgery Database			Version	n: 2.81
Long Name: Fractional Flow Reserve (FFR) - I	Distal LAD		SeqNo:	1270
Short Name: FFRDistLAD			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the FFR in this vessel at the	time of this surge	ery.		
LowValue: 0.00 UsualRangeLow:				
HighValue: 1.00 UsualRangeHigh:				
Parent Long Name: Fractional Flow Reserve (FFR) Performed	Format:	Real		
ParentShortName: FFRPerf	DataLength	.:		
<i>ParentValue:</i> = "Yes"	Data Source	e: User		
ParentHarvestCodes: 1				

Long Name: Percent Stenosis - Diagonal 1			SeqNo:	1275
Short Name: PctStenDiag1			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent stenosis in the	nis vessel at the	time of this surgery.		
LowValue: 0 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: Percent Native Artery Stenosis Known	Format:	Integer		
ParentShortName: PctStenKnown	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Graft Stenosis - Diagonal 1			SeqNo:	1280
Short Name: GrftStenDiag1			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent stenosis	s in this graft at the	time of this surgery.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Graft(s) Present	Format:	Text (categorical val	ues specified by	STS)
ParentShortName: GraftsPrsnt	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source	: User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Patent				
2 Stenosis >=50%				
3 100% occlusion				
4 Not documented				
Long Name: Stent Stenosis - Diagonal 1			SeqNo:	1285
Short Name: StntStenDiag1			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent of stent	t stenosis in this ves	ssel at the time of this s	urgery.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Stent(s) Present	Format:	Text (categorical val	ues specified by	STS)
ParentShortName: StentPrsnt	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source	: User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
<u>code.</u> vulue.				
1 Patent				

STS Adult Cardiac Surgery Database			Version	n: 2.81
Long Name: Fractional Flow Reserve (FFR) - D	iagonal 1		SeqNo:	1290
Short Name: FFRDiag1			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the FFR in this vessel at the t	ime of this surge	ry.		
LowValue: 0.00 UsualRangeLow:				
HighValue: 1.00 UsualRangeHigh:				
Parent Long Name: Fractional Flow Reserve (FFR) Performed	Format:	Real		
ParentShortName: FFRPerf	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source	: User		
ParentHarvestCodes: 1				

Long Name: Percent Stenosis - Diagonal 2			SeqNo:	1295
Short Name: PctStenDiag2			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent stenosis in the	nis vessel at the	time of this surgery.		
LowValue: 0 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: Percent Native Artery Stenosis Known	Format:	Integer		
ParentShortName: PctStenKnown	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Graft Stenosis - Diagonal 2			SeqNo:	1300
Short Name: GrftStenDiag2			Core:	Ye
Section Name: Hemodynamics/Cath/Echo			Harvest:	Ye
DBTableName AdultData				
Definition: Indicate the highest percent stenosis	s in this graft at the	time of this surgery.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Graft(s) Present	Format:	Text (categorical val	lues specified by	STS)
ParentShortName: GraftsPrsnt	DataLength.	:		
<i>ParentValue:</i> = "Yes"	Data Source	e: User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Patent				
2 Stenosis $\geq 50\%$				
3 100% occlusion				
4 Not documented				
Long Name: Stent Stenosis - Diagonal 2			SeqNo:	1305
Short Name: StattStenDiag2			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent of stent	t stenosis in this ve	ssel at the time of this s	surgerv.	
LowValue: UsualRangeLow:			0- j-	
HighValue: UsualRangeHigh:				
Parent Long Name: Stent(s) Present	Format:	Text (categorical val	lues specified by	STS)
ParentShortName: StentPrsnt	DataLength.			,
<i>ParentValue:</i> = "Yes"	Data Source			
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Patent				

STS Adult Cardiac Surgery Database		Version	n: 2.81
Long Name: Fractional Flow Reserve (FFR) - D	Diagonal 2	SeqNo:	1310
Short Name: FFRDiag2		Core:	Yes
Section Name: Hemodynamics/Cath/Echo		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the FFR in this vessel at the	time of this surgery.		
LowValue: 0.00 UsualRangeLow:			
HighValue: 1.00 UsualRangeHigh:			
Parent Long Name: Fractional Flow Reserve (FFR) Performed	Format: Real		
ParentShortName: FFRPerf	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source: User		
ParentHarvestCodes: 1			
Long Name: Percent Stanosis Diagonal 3		SecNo	1215

Long Name: Percent Stenosis - Diagonal 3			SeqNo:	1315
Short Name: PctStenDiag3			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent stenosis in the	nis vessel at the	time of this surgery.		
LowValue: 0 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: Percent Native Artery Stenosis Known	Format:	Integer		
ParentShortName: PctStenKnown	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Graft Stenosis - Diagonal 3			SeqNo:	1320
Short Name: GrftStenDiag3			Core:	Ye
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent stenosi	s in this graft at the	e time of this surgery.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Graft(s) Present	Format:	Text (categorical val	lues specified by	STS)
ParentShortName: GraftsPrsnt	DataLength	:		
<i>ParentValue:</i> = "Yes"	Data Source	e: User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Patent				
2 Stenosis >=50%				
3 100% occlusion				
4 Not documented				
Long Name: Stent Stenosis - Diagonal 3			SecNet	1325
Short Name: StntStenDiag3			SeqNo: Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent of sten	t stenosis in this ve	essel at the time of this s	urgerv	
			uigery.	
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:				
Parent Long Name: Stent(s) Present	Format:	Text (categorical val	lues specified by	STS)
ParentShortName: StentPrsnt	DataLength	. –	1 5	,
<i>ParentValue:</i> = "Yes"	Data Source			
ParentHarvestCodes: 1				
Harvest Codes:				
<u>C</u> ode: Value:				
<u>Code:</u> <u>Value:</u> 1 Patent				

STS Adult Cardiac Surgery Database			Versior	n: 2.81
Long Name: Fractional Flow Reserve (FFR) - Dia	igonal 3		SeqNo:	1330
Short Name: FFRDiag3			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the FFR in this vessel at the tir	ne of this surger	ry.		
LowValue: 0.00 UsualRangeLow:				
HighValue: 1.00 UsualRangeHigh:				
Parent Long Name: Fractional Flow Reserve (FFR) Performed	Format:	Real		
ParentShortName: FFRPerf	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

Long Name: Percent Stenosis - Circumflex			SeqNo:	1335
Short Name: PctStenCircflx			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent stenosis in the	his vessel at the	time of this surgery.		
LowValue: 0 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: Percent Native Artery Stenosis Known	Format:	Integer		
ParentShortName: PctStenKnown	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Surgery Database		Vers	ion: 2.81
Long Name: Graft Stenosis - Circumflex		SeqNo:	1340
Short Name: GrftStenCircflx		Core:	Ye
Section Name: Hemodynamics/Cath/Echo		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the highest percent stenosis	s in this graft at the	time of this surgery.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Graft(s) Present	Format:	Text (categorical values specified b	y STS)
ParentShortName: GraftsPrsnt	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source	: User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Patent			
2 Stenosis $\geq 50\%$			
3 100% occlusion			
4 Not documented			
Long Name: Stent Stenosis - Circumflex		C N	1246
Long Name: Stent Stenosis - Circumflex Short Name: StntStenCircflx		SeqNo: Core:	1345 Yes
Section Name: Hemodynamics/Cath/Echo		Harvest:	Yes
DBTableName AdultData		nurvesi.	103
Definition: Indicate the highest percent of stent	t stanosis in this was	and at the time of this surrow.	
	t stenosis in this ves	sser at the time of this surgery.	
LowValue: UsualRangeLow:			
HighValue:UsualRangeHigh:Parent Long Name:Stent(s) Present	Formati	Text (categorical values specified b	W STS)
ParentShortName: StentPrsnt	Format:		y 313)
ParentValue: = "Yes"	DataLength: Data Source		
ParentHarvestCodes: 1	Duiu Source	. 0301	
Harvest Codes: <u>Code:</u> <u>Value:</u>			
1 Patent			
$2 \text{Stenosis} \ge 50\%$			
2 Stellosis ~= 3070			
3 Not documented			

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Fractional Flow Reserve (FFR) - C	fircumflex		SeqNo:	1350
Short Name: FFRCircflx			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the FFR in this vessel at the	time of this surger	y.		
LowValue: 0.00 UsualRangeLow:				
HighValue: 1.00 UsualRangeHigh:				
Parent Long Name: Fractional Flow Reserve (FFR) Performed	Format:	Real		
ParentShortName: FFRPerf	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

Long Name: Percent Stenosis - Obtuse Marginal 1			SeqNo:	1355
Short Name: PctStenOM1			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent stenosis in the	nis vessel at the	time of this surgery.		
LowValue: 0 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: Percent Native Artery Stenosis Known	Format:	Integer		
ParentShortName: PctStenKnown	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Surgery Database			Versior	n: 2.81
Long Name: Graft Stenosis - Obtuse Marginal 1			SeqNo:	1360
Short Name: GrftStenOM1			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent stenosis in	this graft at the t	ime of this surgery.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Graft(s) Present	Format:	Text (categorical val	ues specified by	STS)
ParentShortName: GraftsPrsnt	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Patent				
2 Stenosis $\geq 50\%$				
3 100% occlusion				
4 Not documented				
Long Names Stant Stangain Obtuga Marginal 1			SagNo	1365
Long Name: Stent Stenosis - Obtuse Marginal 1 Short Name: StntStenOM1			SeqNo: Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData			1100 0000	10
<i>Definition:</i> Indicate the highest percent of stent ste	nosis in this ves	sel at the time of this s	urgerv	
			ai 601 J .	
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:				
Parent Long Name: Stent(s) Present	Format:	Text (categorical val	ues specified by	STS)
ParentShortName: StentPrsnt	DataLength:			~-~)
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
Code: Value: 1 Patent				

STS Adult Cardiac Surgery Database			Versior	n: 2.81
Long Name: Fractional Flow Reserve (FFR) - Obt	use Marginal 1		SeqNo:	1370
Short Name: FFROM1			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the FFR in this vessel at the time	ne of this surger	y.		
LowValue: 0.00 UsualRangeLow:				
HighValue: 1.00 UsualRangeHigh:				
Parent Long Name: Fractional Flow Reserve (FFR) Performed	Format:	Real		
ParentShortName: FFRPerf	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

<i>Long Name:</i> Percent Stenosis - Obtuse Marginal 2			SeqNo:	1375
Short Name: PctStenOM2			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent stenosis in the	nis vessel at the	time of this surgery.		
LowValue: 0 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: Percent Native Artery Stenosis Known	Format:	Integer		
ParentShortName: PctStenKnown	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Graft Stenosis - Obtuse Marginal 2			SeqNo:	1380
Short Name: GrftStenOM2			Core:	Ye
Section Name: Hemodynamics/Cath/Echo			Harvest:	Ye
DBTableName AdultData				
Definition: Indicate the highest percent stenosis in	this graft at the t	time of this surgery.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Graft(s) Present	Format:	Text (categorical val	ues specified by	STS)
ParentShortName: GraftsPrsnt	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Patent				
2 Stenosis $\geq 50\%$				
3 100% occlusion				
4 Not documented				
Louis New Start Start Start and Oktoor Marginal 2			C N	1205
Long Name:Stent Stenosis - Obtuse Marginal 2Short Name:StntStenOM2			SeqNo: Core:	1385 Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData			nurvest.	10
	nosis in this was	al at the time of this s	1180081	
		ser at the time of time s	urgery.	
LowValue: UsualRangeLow:				
HighValue:UsualRangeHigh:Parent Long Name:Stent(s) Present	Format:	Text (categorical val	ues specified by	STS)
ParentShortName: StentPrsnt	DataLength:	Text (categoriear val	ues speemed by	515)
ParentValue: = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Harvest Codes: Code: Value:				
Code: Value:				
Code: Value:				

STS Adult Cardiac Surgery Database			Versior	n: 2.81
Long Name: Fractional Flow Reserve (FFR) - Ob	tuse Marginal 2		SeqNo:	1390
Short Name: FFROM2			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the FFR in this vessel at the time	ne of this surger	y.		
LowValue: 0.00 UsualRangeLow:				
HighValue: 1.00 UsualRangeHigh:				
Parent Long Name: Fractional Flow Reserve (FFR) Performed	Format:	Real		
ParentShortName: FFRPerf	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

Long Name: Percent Stenosis - Obtuse Marginal 3		SeqNo:	1395
Short Name: PctStenOM3		Core:	Yes
Section Name: Hemodynamics/Cath/Echo		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the highest percent stenosis in this vessel at the	e time of this surgery.		
LowValue: 0 UsualRangeLow:			
HighValue: 100 UsualRangeHigh:			
Parent Long Name: Percent Native Artery Stenosis Format: Known	Integer		
ParentShortName: PctStenKnown DataLength:			
ParentValue: = "Yes" Data Source	User		
ParentHarvestCodes: 1			

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Graft Stenosis - Obtuse Marginal 3			SeqNo:	1400
Short Name: GrftStenOM3			Core:	Ye
Section Name: Hemodynamics/Cath/Echo			Harvest:	Ye
DBTableName AdultData				
Definition: Indicate the highest percent stenosis in	this graft at the t	time of this surgery.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Graft(s) Present	Format:	Text (categorical val	ues specified by	STS)
ParentShortName: GraftsPrsnt	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Patent				
2 Stenosis $\geq 50\%$				
3 100% occlusion				
4 Not documented				
Long Name: Stent Stenosis - Obtuse Marginal 3			SeqNo:	1405
Short Name: StntStenOM3			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData	· ·			
Definition: Indicate the highest percent of stent ste	nosis in this vess	sel at the time of this s	urgery.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:	-	T		(TTC)
Parent Long Name: Stent(s) Present	Format:	Text (categorical val	ues specified by	\$1\$)
ParentShortName: StentPrsnt	DataLength:			
ParentValue: = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
<u>Code:</u> <u>Value:</u>				
1				
1 Patent				
 Patent Stenosis >=50% 				

STS Adult Cardiac Surgery Database			Versior	n: 2.81
Long Name: Fractional Flow Reserve (FFR) - Obt	use Marginal 3		SeqNo:	1410
Short Name: FFROM3			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the FFR in this vessel at the time	ne of this surger	у.		
LowValue: 0.00 UsualRangeLow:				
HighValue: 1.00 UsualRangeHigh:				
Parent Long Name: Fractional Flow Reserve (FFR) Performed	Format:	Real		
ParentShortName: FFRPerf	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

Long Name: Percent Stenosis - Ramus	Se	eqNo: 1415
Short Name: PctStenRamus		Core: Yes
Section Name: Hemodynamics/Cath/Echo	Har	<i>rvest:</i> Yes
DBTableName AdultData		
Definition: Indicate the highest percent stenosis in this	vessel at the time of this surgery.	
LowValue: 0 UsualRangeLow:		
HighValue: 100 UsualRangeHigh:		
Parent Long Name: Percent Native Artery Stenosis F Known	<i>Cormat:</i> Integer	
ParentShortName: PctStenKnown D	DataLength:	
ParentValue: = "Yes" D	Data Source: User	
ParentHarvestCodes: 1		

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Graft Stenosis - Ramus			SeqNo:	1420
Short Name: GrftStenRamus			Core:	Ye
Section Name: Hemodynamics/Cath/Echo			Harvest:	Ye
DBTableName AdultData				
Definition: Indicate the highest percent stenosi	is in this graft at the	e time of this surgery.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Graft(s) Present	Format:	Text (categorical val	ues specified by	STS)
ParentShortName: GraftsPrsnt	DataLength	:		
<i>ParentValue:</i> = "Yes"	Data Source	e: User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Patent				
2 Stenosis $\geq 50\%$				
3 100% occlusion				
4 Not documented				
Long Name: Stent Stenosis - Ramus			SeqNo:	1425
Short Name: StattStenRamus			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent of sten	t stenosis in this ve	ssel at the time of this s	urgerv.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Stent(s) Present	Format:	Text (categorical val	ues specified by	STS)
ParentShortName: StentPrsnt	DataLength	· _	1 5	,
<i>ParentValue:</i> = "Yes"	Data Source			
ParentHarvestCodes: 1				
Harvest Codes:				
<u>Code:</u> <u>Value:</u>				
<u>Code:</u> <u>Value:</u> 1 Patent				

STS Adult Cardiac Surgery Database			Version	n: 2.81
Long Name: Fractional Flow Reserve (FFR) - Ra	amus		SeqNo:	1430
Short Name: FFRRamus			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the FFR in this vessel at the ti	ime of this surger	ry.		
LowValue: 0.00 UsualRangeLow:				
HighValue: 1.00 UsualRangeHigh:				
Parent Long Name: Fractional Flow Reserve (FFR) Performed	Format:	Real		
ParentShortName: FFRPerf	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source.	: User		
ParentHarvestCodes: 1				

Long Name: Percent Stenosis - RCA			SeqNo:	1435
Short Name: PctStenRCA			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent stenosis in the	nis vessel at the	time of this surgery.		
LowValue: 0 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: Percent Native Artery Stenosis Known	Format:	Integer		
ParentShortName: PctStenKnown	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Surgery Database			Versior	n: 2.81
Long Name: Graft Stenosis - RCA			SeqNo:	144(
Short Name: GrftStenRCA			Core:	Ye
Section Name: Hemodynamics/Cath/Echo		Ha	arvest:	Ye
DBTableName AdultData				
Definition: Indicate the highest percent stenosi	is in this graft at the	e time of this surgery.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Graft(s) Present	Format:	Text (categorical values sp	ecified by	STS)
ParentShortName: GraftsPrsnt	DataLength	:		
<i>ParentValue:</i> = "Yes"	Data Source	e: User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Patent				
2 Stenosis $\geq 50\%$				
3 100% occlusion				
4 Not documented				
Long Name: Stent Stenosis - RCA			SeqNo:	1445
Short Name: StattStenRCA			Core:	Yes
Section Name: Hemodynamics/Cath/Echo		На	arvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent of sten	t stenosis in this ve	ssel at the time of this surgery	τ	
LowValue: UsualRangeLow:			-	
HighValue: UsualRangeHigh:				
Parent Long Name: Stent(s) Present	Format:	Text (categorical values sp	ecified by	STS)
ParentShortName: StentPrsnt	DataLength		5	,
<i>ParentValue:</i> = "Yes"	Data Source			
ParentHarvestCodes: 1				
Harvest Codes:				
<u>Code:</u> <u>Value:</u>				
<u>Code:</u> <u>Value:</u> 1 Patent				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Fractional Flow Reserve (FFR) - R	CA		SeqNo:	1450
Short Name: FFRRCA			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the FFR in this vessel at the t	time of this surger	ſy.		
LowValue: 0.00 UsualRangeLow:				
HighValue: 1.00 UsualRangeHigh:				
Parent Long Name: Fractional Flow Reserve (FFR) Performed	Format:	Real		
ParentShortName: FFRPerf	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

Long Name: Percent Stenosis - Acute Marginal (Al	M)		SeqNo:	1455
Short Name: PctStenAM			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent stenosis in the	his vessel at the	time of this surgery.		
LowValue: 0 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: Percent Native Artery Stenosis Known	Format:	Integer		
ParentShortName: PctStenKnown	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Graft Stenosis - Acute Marginal ((AM)		SeqNo:	1460
Short Name: GrftStenAM			Core:	Ye
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent stenosis	in this graft at the	time of this surgery.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Graft(s) Present	Format:	Text (categorical val	ues specified by	STS)
ParentShortName: GraftsPrsnt	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source	: User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Patent				
2 Stenosis $\geq 50\%$				
3 100% occlusion				
4 Not documented				
Long Name: Stent Stenosis - Acute Marginal (AM)		SeqNo:	1465
Short Name: StntStenAM			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent of stent	stenosis in this ves	ssel at the time of this s	urgery.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:	_			
Parent Long Name: Stent(s) Present	Format:	Text (categorical val	ues specified by	STS)
ParentShortName: StentPrsnt	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source	: User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Patent				

STS Adult Cardiac Surgery Database			Versior	า: 2.81
Long Name: Fractional Flow Reserve (FFR) - Ac	ute Marginal (Al	(M	SeqNo:	1470
Short Name: FFRAM			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the FFR in this vessel at the time	me of this surger	у.		
LowValue: 0.00 UsualRangeLow:				
HighValue: 1.00 UsualRangeHigh:				
Parent Long Name: Fractional Flow Reserve (FFR) Performed	Format:	Real		
ParentShortName: FFRPerf	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

Long Name: Percent Stenosis - Posterior Descending (PDA)	<i>SeqNo:</i> 1475
Short Name: PctStenPDA	Core: Yes
Section Name: Hemodynamics/Cath/Echo	Harvest: Yes
DBTableName AdultData	
Definition: Indicate the highest percent stenosis in this vessel at the time of this	surgery.
LowValue: 0 UsualRangeLow:	
HighValue: 100 UsualRangeHigh:	
Parent Long Name: Percent Native Artery Stenosis Format: Integer Known	
ParentShortName: PctStenKnown DataLength:	
ParentValue: = "Yes" Data Source: User	
ParentHarvestCodes: 1	

STS Adult Cardiac Surgery Database		Versi	on: 2.81
Long Name: Graft Stenosis - Posterior Desce	nding (PDA)	SeqNo:	1480
Short Name: GrftStenPDA		Core:	Ye
Section Name: Hemodynamics/Cath/Echo		Harvest:	Ye
DBTableName AdultData			
Definition: Indicate the highest percent stenos	is in this graft at the	time of this surgery.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Graft(s) Present	Format:	Text (categorical values specified b	y STS)
ParentShortName: GraftsPrsnt	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source	: User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Patent			
2 Stenosis >=50%			
3 100% occlusion			
4 Not documented			
I Nummer Stand Standards Destantion Desca	(DDA)	(°)/	1 4 9 5
Long Name: Stent Stenosis - Posterior Descent Short Name: StntStenPDA	nding (PDA)	SeqNo: Core:	1485 Yes
Section Name: Hemodynamics/Cath/Echo		Harvest:	Yes
DBTableName AdultData		1101 vest.	100
Definition: Indicate the highest percent of sten	t stanosis in this yas	seal at the time of this surgery	
	it stenosis in this ves	ssel at the time of this surgery.	
LowValue: UsualRangeLow:			
HighValue:UsualRangeHigh:Parent Long Name:Stent(s) Present	Format:	Text (categorical values specified b	(2T2 v
ParentShortName: StentPrsnt	DataLength:		y 515)
ParentValue: = "Yes"	Data Source		
ParentHarvestCodes: 1	Duiu Source	. 030	
Harvest Codes:			
<u>Code:</u> <u>Value:</u>			
1 Patent			
 2 Stenosis >= 50% 3 Not documented 			
3 Not documented			

STS Adult Cardiac Surgery Database			Versior	n: 2.81
Long Name: Fractional Flow Reserve (FFR) - Pos	sterior Descendin	ng (PDA)	SeqNo:	1490
Short Name: FFRPDA			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the FFR in this vessel at the time	me of this surger	у.		
LowValue: 0.00 UsualRangeLow:				
HighValue: 1.00 UsualRangeHigh:				
Parent Long Name: Fractional Flow Reserve (FFR) Performed	Format:	Real		
ParentShortName: FFRPerf	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

Long Name: Percent Stenosis - Posterolateral (PLB)		SeqNo:	1495
Short Name: PctStenPLB			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent stenosis in the	nis vessel at the	time of this surgery.		
LowValue: 0 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: Percent Native Artery Stenosis Known	Format:	Integer		
ParentShortName: PctStenKnown	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Graft Stenosis - Posterolateral (PLB)			SeqNo:	1500
Short Name: GrftStenPLB			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent stenosis in t	his graft at the t	ime of this surgery.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Graft(s) Present	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: GraftsPrsnt	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Patent				
2 Stenosis >=50%				
3 100% occlusion				
4 Not documented				
Long Name: Stent Stenosis - Posterolateral (PLB)			SeqNo:	1505
Short Name: StntStenPLB			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest percent of stent sten	osis in this vess	el at the time of this su	rgery.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Stent(s) Present	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: StentPrsnt	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Patent				
2 Stenosis >=50%				

STS Adult Cardiac Surgery Database		١	ersion: 2.81
Long Name: Fractional Flow Reserve (FFR) - P	Posterolateral (PLB) SeqN	<i>lo:</i> 1510
Short Name: FFRPLB		Ce	ore: Yes
Section Name: Hemodynamics/Cath/Echo		Harves	st: Yes
DBTableName AdultData			
Definition: Indicate the FFR in this vessel at the	time of this surger	у.	
LowValue: 0.00 UsualRangeLow:			
HighValue: 1.00 UsualRangeHigh:			
Parent Long Name: Fractional Flow Reserve (FFR) Performed	Format:	Real	
ParentShortName: FFRPerf	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Long Name: Syntax Score Known		SeqN	<i>lo:</i> 1515
Short Name: SyntaxScrKnown		Ce	ore: Yes
Section Name: Hemodynamics/Cath/Echo		Harves	st: Yes
DBTableName AdultData			
Definition: Indicate whether a syntax score is kn	own.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:	Format:	Text (categorical values specifi	ed by STS)
ParentShortName:	DataLength:		
ParentValue:	Data Source:	User	
ParentHarvestCodes:			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Cardiac Surgery Database			Versior	n: 2.81
Long Name: Syntax Score			SeqNo:	1520
Short Name: SyntaxScr			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate syntax score documented prior	to this surgery.			
LowValue: 0.00 UsualRangeLow:				
HighValue: 100.00 UsualRangeHigh:				
Parent Long Name: Syntax Score Known	Format:	Real		
ParentShortName: SyntaxScrKnown	DataLength:			
ParentValue: = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Long Name: Stress Test Performed			SeqNo:	1525
Short Name: StressTst			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether a stress test was perfo	rmed prior to thi	s surgery.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name:	Format:	Text (categorical values	specified by	STS)
ParentShortName:	DataLength:			
ParentValue:	Data Source:	User		
ParentHarvestCodes:				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database	Version: 2.	81
Long Name: Stress Test Result	SeqNo: 1	53
Short Name: StressTstRes	Core:	Ye
Section Name: Hemodynamics/Cath/Echo	Harvest:	Ye
DBTableName AdultData		
Definition: Indicate the stress test result.		
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Stress Test Performed	<i>Format:</i> Text (categorical values specified by STS	5)
ParentShortName: StressTst	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source: User	
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Normal		
2 Abnormal		
3 Unavailable		
Long Name: Risk / Extent Of Ischemia	SeqNo: 1	53
Short Name: RiskIschemia	Core:	Ye
Section Name: Hemodynamics/Cath/Echo	Harvest:	Ye
DBTableName AdultData		
Definition: Indicate the risk of ischemia docum	ented on a stress test prior to this surgery.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Stress Test Performed	Format: Text (categorical values specified by STS	5)
ParentShortName: StressTst	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source: User	
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Low Risk		
2 intermediate Risk		
3 High Risk		
4 Unavailable		

STS Adult Caldiac Surg	ery Database			Version: 2	2.81
Long Name: Hemo	Data-EF Done		Sec	qNo:	1540
Short Name: HDEF	D			Core:	Ye
Section Name: Hemod	ynamics/Cath/Echo		Harv	vest:	Ye
DBTableName AdultI	Data				
Definition: Indicate v	vhether the Ejection Fraction v	vas measured pr	ior to the induction of anesthe	sia.	
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:		Format:	Text (categorical values spec	ified by SI	TS)
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentHarvestCodes:					
Harvest Codes:					
	Value:				
<u></u> 1	Yes				
2	No				
	ynamics/Cath/Echo		Harv	Core: vest:	
Short Name: HDEF Section Name: Hemod DBTableName Adult[]	-				
Section Name: Hemod DBTableName Adult Definition: Indicate the Use the m report. Enter a peusing the Hyperd Normal Mild dy Severe	Data he percentage of the blood emp nost recent determination prior ercentage in the range of 1 - 99 "mean" (i.e., 50-55% is report ynamic: >70% 1: 50%–70% (midpoint 60%) ysfunction: 40%–49% (midpoint the dysfunction: 30%–39% (midpoint dysfunction: <30% to diagnostic report is in the mage.	to the surgical i . If a percentage ed as 53%). nt 45%) dpoint 35%)	Harv eft ventricle at the end of the contervention documented on a contervention documented are whether the	ontraction. diagnostic	Yes
Section Name: Hemod DBTableName Adult Definition: Indicate the Use the m report. Enter a pe using the • Hyperd • Normal • Mild dy • Modera • Severe Note: If m acceptable	Data he percentage of the blood emp nost recent determination prior ercentage in the range of 1 - 99 "mean" (i.e., 50-55% is report ynamic: >70% 1: 50%–70% (midpoint 60%) ysfunction: 40%–49% (midpoint the dysfunction: 30%–39% (midpoint dysfunction: <30% to diagnostic report is in the mage.	to the surgical i . If a percentage ed as 53%). nt 45%) dpoint 35%)	Harv eft ventricle at the end of the contervention documented on a contervention documented are whether the	ontraction. diagnostic	Yes
Section Name: Hemod DBTableName Adult Definition: Indicate the Use the m report. Enter a pe using the • Hyperd • Normal • Mild dy • Modera • Severe Note: If m acceptable ACCF/AI	Data he percentage of the blood emp nost recent determination prior ercentage in the range of 1 - 99 "mean" (i.e., 50-55% is report ynamic: >70% 1: 50%-70% (midpoint 60%) ysfunction: 40%-49% (midpoint the dysfunction: 30%-39% (midpoint dysfunction: <30% to diagnostic report is in the mage. HA 2013	to the surgical i . If a percentage ed as 53%). nt 45%) dpoint 35%)	Harv eft ventricle at the end of the contervention documented on a contervention documented are whether the	ontraction. diagnostic	Yes
Section Name: Hemod DBTableName Adult Definition: Indicate th Use the m report. Enter a pe using the Hyperd • Normal • Mild dy • Modera • Severe Note: If n acceptable ACCF/AI	Data he percentage of the blood emp nost recent determination prior ercentage in the range of 1 - 99 "mean" (i.e., 50-55% is report ynamic: >70% 1: 50%-70% (midpoint 60%) //sfunction: 40%-49% (midpoint te dysfunction: 30%-39% (mid dysfunction: <30% to diagnostic report is in the me e. HA 2013 UsualRangeLow: 5.0 UsualRangeHigh: 90.0	to the surgical i . If a percentage ed as 53%). nt 45%) dpoint 35%)	Harv eft ventricle at the end of the contervention documented on a contervention documented are whether the	ontraction. diagnostic	Yes
Section Name: Hemod DBTableName Adult Definition: Indicate th Use the m report. Enter a pe using the • Hyperd • Normal • Mild dy • Modera • Severe Note: If m acceptable ACCF/AI LowValue: 1.0 HighValue: 99.0	Data he percentage of the blood emp nost recent determination prior ercentage in the range of 1 - 99 "mean" (i.e., 50-55% is report ynamic: >70% 1: 50%-70% (midpoint 60%) ysfunction: 40%-49% (midpoint te dysfunction: 30%-39% (mid dysfunction: <30% to diagnostic report is in the mage. HA 2013 UsualRangeLow: 5.0 UsualRangeHigh: 90.0 Iemo Data-EF Done	to the surgical i If a percentage ed as 53%). nt 45%) dpoint 35%) edical record, a	Harv eft ventricle at the end of the contervention documented on a de e range is reported, report a wh	ontraction. diagnostic	er

STS Adult Cardiac Surgery Database		Versior	า: 2.81
Long Name: Hemo Data-EF Method		SeqNo:	1550
Short Name: HDEFMeth		Core:	No
Section Name: Hemodynamics/Cath/Echo		Harvest:	No
DBTableName AdultData			
Definition: Indicate how the Ejection Fraction mea	surement information was obtained prec	operatively.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Hemo Data-EF Done	Format: Text (categorical value	es specified by	STS)
ParentShortName: HDEFD	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source: User		
ParentHarvestCodes: 1			
Harvest Codes and Value Definitions:			
Code: Value:	Definition:		
2 LV Gram	Left Ventriculogram		
3 Radionucleotide	MUGA Scan		
4 Estimate	From other calculations, based upo data.	n available clir	nical
5 ECHO	Echocardiogram		
6 MRI/CT			
9 Other			
<i>Long Name:</i> Hemo Data-Dimensions Available		SagNor	1555
Long Name: Hemo Data-Dimensions Available Short Name: DimAvail		SeqNo: Core:	Yes
Section Name: Hemodynamics/Cath/Echo		Harvest:	Yes
DBTableName AdultData		1100 0000	105
<i>Definition:</i> Indicate whether intracardiac dimension	as are available		
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:			
Parent Long Name:	Format: Text (categorical value	es specified by	STS)
ParentShortName:	DataLength:	o opeenieu oj	212)
ParentValue:	Data Source: User		
ParentHarvestCodes:			
Harvest Codes:			
<u>Code:</u> <u>Value:</u>			
1 Yes			
2 No			
2 110			

STS Adult Cardiac Surgery Database	Version:	2.81
Long Name: Hemo Data-LV End Systolic Dimension	SeqNo:	1560
Short Name: LVSD	Core:	Yes
Section Name: Hemodynamics/Cath/Echo	Harvest:	Yes
DBTableName AdultData		
Definition: Indicate LV End -Systolic Dimension in mm. LV end systolic dimension is the same as left ventricular internal dime	ension in end systole (LVI	Ds)
LowValue: 0.0 UsualRangeLow: 25.0		
HighValue: 90.0 UsualRangeHigh: 35.0		
Parent Long Name: Hemo Data-Dimensions Format: Real Available		
ParentShortName: DimAvail DataLength:		
ParentValue: = "Yes" Data Source: User		
Long Name: Hemo Data-LV End-Diastolic Dimension	SeqNo:	1565
Short Name: LVEDD	Core:	Yes
Section Name: Hemodynamics/Cath/Echo	Harvest:	Yes
DBTableName AdultData		
Definition: Indicate the Left Ventricular End-Diastolic Dimension in mm. LV end same as left ventricular internal dimension in end diastole (LVIDs)	diastolic dimension is the	e
LowValue: 20.0 UsualRangeLow: 45.0		
HighValue: 100.0 UsualRangeHigh: 54.0		
Parent Long Name: Hemo Data-Dimensions Format: Real Available		
ParentShortName: DimAvail DataLength:		
0		
ParentValue: = "Yes" Data Source: User		

STS Adult Cardiac Surgery Database		Versior	n: 2.81
Long Name: Hemo-PA Systolic Pressure Measure	ed	SeqNo:	1570
Short Name: PASYSMeas		Core:	Yes
Section Name: Hemodynamics/Cath/Echo		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether the PA systolic press	ure was measure	d prior to incision.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:	Format:	Text (categorical values specified by	STS)
ParentShortName:	DataLength:		
ParentValue:	Data Source:	User	
ParentHarvestCodes:			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
Long Name: Hemo-PA Systolic Pressure		SeqNo:	1575
Short Name: PASYS		Core:	Yes
Section Name: Hemodynamics/Cath/Echo		Harvest:	Yes
DBTableName AdultData			
Definition: Capture highest PA systolic pressure re-	ecorded prior to i	incision.	
LowValue: 10.0 UsualRangeLow: 15.0			
HighValue: 150.0 UsualRangeHigh: 30.0			
Parent Long Name: Hemo-PA Systolic Pressure Measured	Format:	Real	
ParentShortName: PASYSMeas	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			

STS Adult Cardiac Surg	ery Database			Version	: 2.81
Long Name: Left M	ain Dis >= 50%			SeqNo:	1580
Short Name: LMain	Dis			Core:	No
Section Name: Hemod	lynamics/Cath/Echo			Harvest:	No
DBTableName AdultI	Data				
	whether the patient has Left Ma when there is $\geq 50\%$ compromi			ry Disease is	
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:		Format:	Text (categorical values	specified by	STS)
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentHarvestCodes:					
Harvest Codes:					
Code:	Value:				
1	Yes				
2	No				
				C N	1505
0	hal LAD Disease >=70%			SeqNo:	1585
Short Name: ProxL				Core:	No
Section Name: Hemod	-			Harvest:	No
DBTableName AdultI		. 0.1			
	whether the percent luminal name naximal stenosis is greater than			ending artery	at the
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:		Format:	Text (categorical values	specified by	STS)
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentHarvestCodes:					
Harvest Codes:					
Code:	<u>Value:</u>				
1	Yes				
2	No				

STS Adult Cardiac Surger	ry Database Versic	Version: 2.81	
Long Name: VD-Insu	ff-Aortic SeqNo:	1590	
Short Name: VDInsut	A Core:	Yes	
Section Name: Hemody	namics/Cath/Echo Harvest:	Yes	

Definition: Indicate whether there is evidence of Aortic valve insufficiency/regurgitation. Enter level of valve function associated with highest risk (i.e., worst performance).

Enter the highest level recorded in the chart. "Moderately severe" should be coded as "Severe".

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			

Harvest Codes:

Code:Value:0None1Trivial/Trace2Mild

3 Moderate

4 Severe

5 Not documented

Long Name: VD-Ad Short Name: VDAo Section Name: Hemod	rt			SeqNo: Core: Harvest:	1595 Yes Yes
DBTableName AdultI	Data				
Definition: Indicate v	whether Aortic Valve disease is	present.			
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:		Format:	Text (categorical values	s specified by S	STS)
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentHarvestCodes:					
Harvest Codes:					
Code:	Value:				
1	Yes				
2	No				

STS Adult Cardiac Surgery Database		Versi	on: 2.81
Long Name: VD-Stenosis-Aortic		SeqNo:	1600
Short Name: VDStenA		Core:	Yes
Section Name: Hemodynamics/Cath/Echo		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether Aortic Stenosis is	present.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VD-Aortic	Format:	Text (categorical values specified b	y STS)
ParentShortName: VDAort	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
Long Name: VD-Aortic Hemodynamic Data A	Available	SeqNo:	1605
Short Name: AoHemoDatAvail		Core:	Yes
Section Name: Hemodynamics/Cath/Echo		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether aortic valve hemory	dynamic measureme	ents are available.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VD-Stenosis-Aortic	Format:	Text (categorical values specified b	y STS)
ParentShortName: VDStenA	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

	Version: 2.81
	<i>SeqNo:</i> 1610
	Core: Yes
	Harvest: Yes
tic valve area (in cm squared).	
Format: Real	
DataLength:	
Data Source: User	
	DataLength:

Long Name: VD-Aortic Gradient-Highest Mean			SeqNo:	1615
Short Name: VDGradA			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest documented MEAN	gradient (in m	mHg) across the aortic v	valve.	
LowValue: 0 UsualRangeLow:				
HighValue: 200 UsualRangeHigh:				
Parent Long Name: VD-Aortic Hemodynamic Data Available	Format:	Integer		
ParentShortName: AoHemoDatAvail	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Surgery Database		Version	n: 2.81
Long Name:	VD-Aortic Valve Disease Etiology 1	SeqNo:	1625
Short Name:	VDAoEt1	Core:	Yes
Section Name.	: Hemodynamics/Cath/Echo	Harvest:	Yes

Definition: Indicate etiology of aortic valve disease if known. Choose unknown if not documented.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	VD-Aortic	Format:	Text (categorical values specified by STS)
ParentShortName:	VDAort	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
	1		

ParentHarvestCodes: 1

Harvest Codes:

Code: Value:

- 1 Unknown
- 3 Bicuspid valve disease
- 4 Congenital (other than bicuspid)
- 5 Degenerative- Calcified
- 6 Degenerative- Leaflet prolapse with or without annular dilation
- 7 Degenerative- Pure annular dilation without leaflet prolapse
- 8 Endocarditis with root abscess
- 9 Endocarditis without root abscess
- 10 LV Outflow Tract Pathology, HOCM
- 11 LV Outflow Tract Pathology, Sub-aortic membrane
- 12 LV Outflow Tract Pathology, Sub-aortic Tunnel
- 13 LV Outflow Tract Pathology, Other
- 14 Primary Aortic Disease, Aortic Dissection
- 15 Primary Aortic Disease, Atherosclerotic Aneurysm
- 16 Primary Aortic Disease, Ehler-Danlos Syndrome

- 17 Primary Aortic Disease, Hypertensive Aneurysm
- 18 Primary Aortic Disease, Idiopathic Root Dilation
- 19 Primary Aortic Disease, Inflammatory
- 20 Primary Aortic Disease, Loeys-Dietz Syndrome
- 21 Primary Aortic Disease, Marfan Syndrome
- 22 Primary Aortic Disease, Other Connective tissue disorder
- 23 Prior Aortic Intervention, Etiology Unknown
- 24 Rheumatic
- 25 Supravalvular Aortic Stenosis
- 26 Trauma
- 27 Tumor, Carcinoid
- 28 Tumor, Myxoma
- 29 Tumor, Papillary Fibroelastoma
- 30 Tumor, Other
- 31 Other

Long Name:	VD-Aortic Valve Disease Etiology 2	SeqNo:	1630
Short Name:	VDAoEt2	Core:	Yes
Section Name:	Hemodynamics/Cath/Echo	Harvest:	Yes

Definition: Indicate additional etiology of aortic valve disease if any, otherwise choose no additional etiology.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	VD-Aortic Valve Disease Etiology 1	Format:	Text (categorical values specified by STS)
ParentShortName:	VDAoEt1	DataLength:	
ParentValue:	<>"Unknown" And Is Not Missing	Data Source:	User
ParentHarvestCode	s: \sim 1 And Is Not Missing		
Harvest Code	es:		
Coc	le: <u>Value:</u>		

- 2 No additional etiology
- 3 Bicuspid valve disease

STS Adult Cardiac Surgery Database

- 4 Congenital (other than bicuspid)
- 5 Degenerative- Calcified
- 6 Degenerative- Leaflet prolapse with or without annular dilation
- 7 Degenerative- Pure annular dilation without leaflet prolapse
- 8 Endocarditis with root abscess
- 9 Endocarditis without root abscess
- 10 LV Outflow Tract Pathology, HOCM
- 11 LV Outflow Tract Pathology, Sub-aortic membrane
- 12 LV Outflow Tract Pathology, Sub-aortic Tunnel
- 13 LV Outflow Tract Pathology, Other
- 14 Primary Aortic Disease, Aortic Dissection
- 15 Primary Aortic Disease, Atherosclerotic Aneurysm
- 16 Primary Aortic Disease, Ehler-Danlos Syndrome
- 17 Primary Aortic Disease, Hypertensive Aneurysm
- 18 Primary Aortic Disease, Idiopathic Root Dilation
- 19 Primary Aortic Disease, Inflammatory
- 20 Primary Aortic Disease, Loeys-Dietz Syndrome
- 21 Primary Aortic Disease, Marfan Syndrome
- 22 Primary Aortic Disease, Other Connective tissue disorder
- 23 Prior Aortic Intervention, Etiology Unknown
- 24 Rheumatic
- 25 Supravalvular Aortic Stenosis
- 26 Trauma
- 27 Tumor, Carcinoid

28	Tumor, Myxoma			
29	Tumor, Papillary Fibroelastoma			
30	Tumor, Other			
31	Other			
Long Name: VD-Ad	ortic Valve Disease Etiology 3		SeqNo:	1635
Short Name: VDAo	Et3		Core:	Yes
Section Name: Hemod	lynamics/Cath/Echo		Harvest:	Yes
DBTableName Adult	Data			
Definition: Indicate a	additional etiology of aortic val	ve disease if an	y, otherwise choose no additional eti	ology.
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
	/D-Aortic Valve Disease Etiology 2	Format:	Text (categorical values specified b	oy STS)
ParentShortName: V	DAoEt2	DataLength:		
	>"No additional etiology" nd Is Not Missing	Data Source:	User	
ParentHarvestCodes:	<>2 And Is Not Missing			
Harvest Codes:				
Code:	Value:			
2	No additional etiology			
3	Bicuspid valve disease			
4	Congenital (other than bicuspid)			
5	Degenerative- Calcified			
6	Degenerative- Leaflet prolapse with or without annular dilation			
7	Degenerative- Pure annular dilation without leaflet prolapse			
8	Endocarditis with root absces	S		
9	Endocarditis without root abscess			
10	LV Outflow Tract Pathology, HOCM			
11	LV Outflow Tract Pathology, Sub-aortic membrane			
12	LV Outflow Tract Pathology			

- 12 LV Outflow Tract Pathology, Sub-aortic Tunnel
- 13 LV Outflow Tract Pathology,

Other

- 14 Primary Aortic Disease, Aortic Dissection
- 15 Primary Aortic Disease, Atherosclerotic Aneurysm
- 16 Primary Aortic Disease, Ehler-Danlos Syndrome
- 17 Primary Aortic Disease, Hypertensive Aneurysm
- 18 Primary Aortic Disease, Idiopathic Root Dilation
- 19 Primary Aortic Disease, Inflammatory
- 20 Primary Aortic Disease, Loeys-Dietz Syndrome
- 21 Primary Aortic Disease, Marfan Syndrome
- 22 Primary Aortic Disease, Other Connective tissue disorder
- 23 Prior Aortic Intervention, Etiology Unknown
- 24 Rheumatic
- 25 Supravalvular Aortic Stenosis
- 26 Trauma
- 27 Tumor, Carcinoid
- 28 Tumor, Myxoma
- 29 Tumor, Papillary Fibroelastoma
- 30 Tumor, Other
- 31 Other

STS Adult Cardiac Sur	gery Database		Ve	ersion: 2.81
Long Name: VD-A	ortic Valve Disease Etiology 4		SeqNo	<i>o:</i> 164
Short Name: VDA	oEt4		Con	re: Ye
Section Name: Hemo	dynamics/Cath/Echo		Harvest	t: Ye
DBTableName Adult	Data			
Definition: Indicate	additional etiology of aortic value	ve disease if an	y, otherwise choose no additional	etiology.
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
	VD-Aortic Valve Disease Etiology 3	Format:	Text (categorical values specifie	ed by STS)
ParentShortName: V	/DAoEt3	DataLength:		
	>"No additional etiology" And Is Not Missing	Data Source:	User	
ParentHarvestCodes:	<>2 And Is Not Missing			
Harvest Codes:				
	Value:			
2	No additional etiology			
3	Bicuspid valve disease			
4	Congenital (other than bicuspid)			
5	Degenerative- Calcified			
6	Degenerative- Leaflet prolapse with or without annular dilation			
7	Degenerative- Pure annular dilation without leaflet prolapse			
8	Endocarditis with root abscess	5		
9	Endocarditis without root abscess			
10	LV Outflow Tract Pathology, HOCM			
11	LV Outflow Tract Pathology, Sub-aortic membrane			
12	LV Outflow Tract Pathology, Sub-aortic Tunnel			
13	LV Outflow Tract Pathology, Other			
14	Primary Aortic Disease, Aortic Dissection			
15	Primary Aortic Disease, Atherosclerotic Aneurysm			
16	Primary Aortic Disease, Ehler	-		

Danlos Syndrome
Primary Aortic Disease, Hypertensive Aneurysm
Primary Aortic Disease, Idiopathic Root Dilation
Primary Aortic Disease, Inflammatory
Primary Aortic Disease, Loeys-Dietz Syndrome
Primary Aortic Disease, Marfan Syndrome
Primary Aortic Disease, Other Connective tissue disorder
Prior Aortic Intervention, Etiology Unknown
Rheumatic
Supravalvular Aortic Stenosis
Trauma
Tumor, Carcinoid
Tumor, Myxoma
Tumor, Papillary Fibroelastoma
Tumor, Other
Other

Long Name:	VD-Aortic Valve Disease Etiology 5	SeqNo:	1645
Short Name:	VDAoEt5	Core:	Yes
Section Name:	Hemodynamics/Cath/Echo	Harvest:	Yes

Definition: Indicate additional etiology of aortic valve disease if any, otherwise choose no additional etiology.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	VD-Aortic Valve Disease Etiology 4	Format:	Text (categorical values specified by STS)
ParentShortName:	VDAoEt4	DataLength:	
ParentValue:	"No additional etiology" And Is Not Missing	Data Source:	User
ParentHarvestCode.	s: \sim 2 And Is Not Missing		
Harvest Code	s:		
Cod	e: Value:		
,	2 N		

2 No additional etiology

- 3 Bicuspid valve disease
- 4 Congenital (other than bicuspid)
- 5 Degenerative- Calcified
- 6 Degenerative- Leaflet prolapse with or without annular dilation
- 7 Degenerative- Pure annular dilation without leaflet prolapse
- 8 Endocarditis with root abscess
- 9 Endocarditis without root abscess
- 10 LV Outflow Tract Pathology, HOCM
- 11 LV Outflow Tract Pathology, Sub-aortic membrane
- 12 LV Outflow Tract Pathology, Sub-aortic Tunnel
- 13 LV Outflow Tract Pathology, Other
- 14 Primary Aortic Disease, Aortic Dissection
- 15 Primary Aortic Disease, Atherosclerotic Aneurysm
- 16 Primary Aortic Disease, Ehler-Danlos Syndrome
- 17 Primary Aortic Disease, Hypertensive Aneurysm
- 18 Primary Aortic Disease, Idiopathic Root Dilation
- 19 Primary Aortic Disease, Inflammatory
- 20 Primary Aortic Disease, Loeys-Dietz Syndrome
- 21 Primary Aortic Disease, Marfan Syndrome
- 22 Primary Aortic Disease, Other Connective tissue disorder
- 23 Prior Aortic Intervention, Etiology Unknown
- 24 Rheumatic
- 25 Supravalvular Aortic Stenosis
- 26 Trauma

27	Tumor,	Carcinoid
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- 28 Tumor, Myxoma
- 29 Tumor, Papillary Fibroelastoma
- 30 Tumor, Other
- 31 Other

Long Name: VD-Aortic Etiology		SeqNo:	1650
Short Name: VDAoEt		Core.	No
Section Name: Hemodynamics/Cath/Echo		Harvest:	No
DBTableName AdultData			
Definition: Indicate primary etiology of aortic va	alve disease.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VD-Aortic	Format:	Text (categorical values specified	by STS)
ParentShortName: VDAort	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes and Value Definitions:			
Code: Value:	Definition:		
1 Degenerative (senile)	Includes ca	alcific, senile, and leaflet prolapse.	
2 Endocarditis			
3 Congenital			
4 Rheumatic			
5 Primary Aortic Disease			
6 LV Outflow Tract Obstruc	tion		
7 Supravalvular Aortic Sten	osis		
8 Tumor			
9 Trauma			
10 Other			

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: VD-Endocarditis Root Abscess		<i>SeqNo:</i> 1655
Short Name: VDEndAB		Core: No
Section Name: Hemodynamics/Cath/Echo		Harvest: No
DBTableName AdultData		
Definition: Indicate if endocarditis is associated	l with an aortic root	abscess.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: VD-Aortic Etiology	Format:	Text (categorical values specified by STS)
ParentShortName: VDAoEt	DataLength:	
<i>ParentValue:</i> = "Endocarditis"	Data Source:	User
ParentHarvestCodes: 2		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: VD-Congenital Type		SeqNo: 1660
Short Name: VDCongenT		Core: No
Section Name: Hemodynamics/Cath/Echo		Harvest: No
DBTableName AdultData		
Definition: Indicate type of congenital Aortic V	alve disease.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: VD-Aortic Etiology	Format:	Text (categorical values specified by STS)
ParentShortName: VDAoEt	DataLength:	
ParentValue: = "Congenital"	Data Source:	User
ParentHarvestCodes: 3		
Harvest Codes:		
Code: Value:		
1 Bicuspid		
2 Other		

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: VD-Primary aortic disease	SeqNo: 1665
Short Name: VDPrimAo	Core: No
Section Name: Hemodynamics/Cath/Echo	Harvest: No
DBTableName AdultData	
Definition: Indicate type of Primary Aortic Disease	
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: VD-Aortic Etiology	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: VDAoEt	DataLength:
<i>ParentValue:</i> = "Primary Aortic Disease"	Data Source: User
ParentHarvestCodes: 5	
Harvest Codes and Value Definitions:	
Code: Value:	Definition:
1 Marfans	
2 Other Connective tissue disorder	
3 Atherosclerotic Aneurysm	
4 Inflammatory	Syphilis, Takayasu
5 Aortic Dissection	
6 Idiopathic Root Dilation	
Long Name: VD-LV Outflow Tract Obstruction T	ype SeqNo: 1670
Short Name: VDLVOutOb	Core: No
Section Name: Hemodynamics/Cath/Echo	Harvest: No
DBTableName AdultData	
Definition: Indicate type of LV outflow tract obstru	ction.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: VD-Aortic Etiology	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: VDAoEt	DataLength:
ParentValue: = "LV outflow tract obstruction"	Data Source: User
ParentHarvestCodes: 6	
Harvest Codes and Value Definitions:	
Code: Value:	Definition:
1 HOCM	Hypertrophic Cardiomyopathy
2 Sub-aortic membrane	
3 Sub-aortic Tunnel	

· · · · ·			
Long Name: VD-Aortic Valve Tumor Type		SeqNo:	1675
Short Name: VDAortTumor		Core:	Nc
Section Name: Hemodynamics/Cath/Echo		Harvest:	No
DBTableName AdultData			
<i>Definition:</i> Indicate the type of cardiac tumor.			
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VD-Aortic Etiology	Format:	Text (categorical values specified by	/ STS)
ParentShortName: VDAoEt	DataLength:		
<i>ParentValue:</i> = "Tumor"	Data Source:	User	
ParentHarvestCodes: 8			
Harvest Codes:			
Code: Value:			
1 Myxoma			
2 Papillary fibroelastoma			
3 Carcinoid			
4 Other			
Long Name: VD-Insuff-Mitral		SeqNo:	1680
Short Name: VDInsufM		Core:	Yes
Section Name: Hemodynamics/Cath/Echo		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether there is evidence of M function associated with highest risk (i.e.	e., worst perform	nance).	
Enter the highest level recorded in the c	hart. "Moderate	ly severe" should be coded as "Severe	e".
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:	Format:	Text (categorical values specified by	/ STS)
ParentShortName:	DataLength:		

Data Source: User

ParentValue:

ParentHarvestCodes:

Harvest Codes:

Code: Value:

- 0 None
- 1 Trivial/Trace
- 2 Mild
- 3 Moderate

STS Adult Cardiac Surgery Database

4 Severe

5 Not documented

Long Name: VD-Mitral		SeqNo:	168
Short Name: VDMit		Core:	Ye
Section Name: Hemodynamics/Cath/Echo		Harvest:	Ye
DBTableName AdultData			
Definition: Indicate whether Mitral valve disea	se is present.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:	Format:	Text (categorical values specified by	STS)
ParentShortName:	DataLength:		
ParentValue:	Data Source:	User	
ParentHarvestCodes:			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
Long Name: VD-Stenosis-Mitral		SeqNo:	169
Short Name: VDStenM		Core:	Ye
Section Name: Hemodynamics/Cath/Echo		Harvest:	Ye
DBTableName AdultData			
Definition: Indicate whether Mitral Stenosis is	present.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VD-Mitral	Format:	Text (categorical values specified by	STS)
ParentShortName: VDMit	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: VD-Mitral Hemodynamic Data Avai	lable	<i>SeqNo:</i> 1695
Short Name: MiHemoDatAvail		Core: Yes
Section Name: Hemodynamics/Cath/Echo		Harvest: Yes
DBTableName AdultData		
Definition: Indicate whether mitral valve hemodyn	amic measureme	ents are available.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: VD-Stenosis-Mitral	Format:	Text (categorical values specified by STS)
ParentShortName: VDStenM	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: VD-Smallest Mitral Valve Area		SeqNo: 1700
Short Name: VDMVA		Core: Yes
Section Name: Hemodynamics/Cath/Echo		Harvest: Yes
DBTableName AdultData		
Definition: Indicate the smallest documented Mitra	al Valve Area.	
LowValue: 0.6 UsualRangeLow:		
HighValue: 6.0 UsualRangeHigh:		
Parent Long Name: VD-Mitral Hemodynamic Data Available	Format:	Real
ParentShortName: MiHemoDatAvail	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		

STS Adult Cardiac Surgery Database		Version: 2.81		
Long Name: VD-Mitral Gradient-Highest Mean			SeqNo:	1705
Short Name: VDGradM			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the highest documented mean g	gradient (in mm	Hg) across the mitral va	alve.	
LowValue: 0 UsualRangeLow:				
HighValue: 30 UsualRangeHigh:				
Parent Long Name: VD-Mitral Hemodynamic Data Available	Format:	Integer		
ParentShortName: MiHemoDatAvail	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

Long Name: VD-Mitral Papillary Muscle Rupture	SeqNo:	1710
Short Name: VDMitPMR	Core:	No
Section Name: Hemodynamics/Cath/Echo	Harvest:	No
DBTableName AdultData		
Definition: Indicate whether papillary muscle rupture occurred.		
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: VD-Mitral Valve Disease Format: Text (categoric Ischemic Type Text (categoric Text (categoric Text (categoric	cal values specified by	STS)
ParentShortName: VDMitIsTy DataLength:		
ParentValue:= "Acute"Data Source: User		
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		

STS Adult Cardiac Surgery Database			Version	: 2.81
Long Name: VD-Carpentier Mitral Leaflet Motion	Classification		SeqNo:	171
Short Name: VDMitFC			Core:	Ye
Section Name: Hemodynamics/Cath/Echo			Harvest:	Ye
DBTableName AdultData				
Definition: Indicate the Carpentier mitral leaflet mo	otion classification	on, if documente	ed.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VD-Mitral	Format:	Text (categorie	cal values specified by	STS)
ParentShortName: VDMit	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes and Value Definitions:				
Code: Value:	Definition:			
1 Type I	Normal lear	flet motion		
2 Type II	Excess Lea	flet Motion		
3 Type IIIa	Restricted 1	eaflet motion sy	stolic and diastolic	
4 Type IIIb	Restricted 1	eaflet motion sy	vstolic	
5 Not documented				
Long Name: VD-Mitral Valve Disease Etiology 1			SeqNo:	172
TONG NOME. VD-WIITAL VAIVE DISEASE ETIOLOGY L				
			_	
Short Name: VDMiEt1			Core:	Ye
Short Name: VDMiEt1 Section Name: Hemodynamics/Cath/Echo			_	Ye
Short Name: VDMiEt1 Section Name: Hemodynamics/Cath/Echo DBTableName AdultData	disease if know	n	Core:	Ye
Short Name: VDMiEt1 Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate the etiology of the mitral valve	disease if know	n.	Core:	Ye
Short Name:VDMiEt1Section Name:Hemodynamics/Cath/EchoDBTableNameAdultDataDefinition:Indicate the etiology of the mitral valveLowValue:UsualRangeLow:	disease if know	n.	Core:	Ye
Short Name:VDMiEt1Section Name:Hemodynamics/Cath/EchoDBTableNameAdultDataDefinition:Indicate the etiology of the mitral valveLowValue:UsualRangeLow:HighValue:UsualRangeHigh:			Core: Harvest:	Ye Ye
Short Name: VDMiEt1 Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate the etiology of the mitral valve LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: VD-Mitral	Format:		Core:	Ye Ye
Short Name: VDMiEt1 Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate the etiology of the mitral valve LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: VD-Mitral ParentShortName: VDMit	Format: DataLength:	Text (categorio	Core: Harvest:	Ye Ye
Short Name: VDMiEt1 Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate the etiology of the mitral valve LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: VD-Mitral ParentShortName: VDMit ParentValue: = "Yes"	Format:	Text (categorio	Core: Harvest:	Ye Ye
Short Name: VDMiEt1 Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate the etiology of the mitral valve LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: VD-Mitral ParentShortName: VDMit ParentValue: = "Yes" ParentHarvestCodes: 1	Format: DataLength:	Text (categorio	Core: Harvest:	Ye Ye
Short Name: VDMiEt1 Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate the etiology of the mitral valve LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: VD-Mitral ParentShortName: VDMit ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes:	Format: DataLength:	Text (categorio	Core: Harvest:	Ye Ye
Short Name: VDMiEt1 Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate the etiology of the mitral valve LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: VD-Mitral ParentShortName: VDMit ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes: <u>Code: Value:</u>	Format: DataLength:	Text (categorio	Core: Harvest:	Ye Ye
Short Name: VDMiEt1 Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate the etiology of the mitral valve LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: VD-Mitral ParentShortName: VDDMit ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes: <u>Code: Value:</u> 1 Unknown	Format: DataLength:	Text (categorio	Core: Harvest:	Ye Ye
Short Name: VDMiEt1 Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate the etiology of the mitral valve LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: VD-Mitral ParentShortName: VDDMit ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes: <u>Code: Value:</u> 1 Unknown 3 Degenerative	Format: DataLength:	Text (categorio	Core: Harvest:	Ye Ye
Short Name: VDMiEt1 Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate the etiology of the mitral valve LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: VD-Mitral ParentShortName: VDMit ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes: 1 Harvest Codes: 1 Unknown 3 Degenerative 4 Rheumatic	Format: DataLength:	Text (categorio	Core: Harvest:	Ye Ye
Short Name: VDMiEt1 Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate the etiology of the mitral valve LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: VD-Mitral ParentShortName: VDMit ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes: <u>Code: Value:</u> 1 Unknown 3 Degenerative	Format: DataLength:	Text (categorio	Core: Harvest:	Ye Ye

- 7 Non-ischemic Cardiomyopathy
- 8 Endocarditis
- 9 Hypertrophic Obstructive Cardiomyopathy (HOCM)
- 10 Tumor, Carcinoid
- 11 Tumor, Myxoma
- 12 Tumor, Papillary fibroelastoma
- 13 Tumor, Other
- 14 Carcinoid
- 15 Trauma
- 16 Congenital
- 17 Prior Mitral Valve Intervention, Etiology Unknown
- 18 Other

Long Name: VD-Mitral Valve Disease Etiology 2	SeqNo:	1725
Short Name: VDMiEt2	Core:	Yes
Section Name: Hemodynamics/Cath/Echo	Harvest:	Yes
DBTableName AdultData		
Definition: Indicate additional etiology of mitral valve disease if any, otherwise cho	ose no additional etiol	ogy.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: VD-Mitral Valve Disease Format: Text (categoric Etiology 1 1	al values specified by	STS)
ParentShortName: VDMiEt1 DataLength:		
ParentValue: \bigcirc "Unknown" And Is NotData Source: UserMissing		
ParentHarvestCodes: <>1 And Is Not Missing		
Harvest Codes:		
Code: Value:		
2 No additional etiology		
3 Degenerative		
4 Rheumatic		
5 Ischemic - acute, post infarction		
6 Ischemic - chronic		
7 Non-ischemic Cardiomyopathy		

8 Endocarditis

me:	VD-M	itral Valve Disease Etiology 3	SeqNo:	1730
	18	Other		
	17	Prior Mitral Valve Intervention, Etiology Unknown		
	16	Congenital		
	15	Trauma		
	14	Carcinoid		
	13	Tumor, Other		
	12	Tumor, Papillary fibroelastoma		
	11	Tumor, Myxoma		
	10	Tumor, Carcinoid		
	9	Hypertrophic Obstructive Cardiomyopathy (HOCM)		

Long Name:	VD-Mitral Valve Disease Etiology 3	SeqNo:	1730
Short Name:	VDMiEt3	Core:	Yes
Section Name.	· Hemodynamics/Cath/Echo	Harvest:	Yes

DBTableName AdultData

Definition: Indicate additional etiology of mitral valve disease if any, otherwise choose no additional etiology.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	 VD-Mitral Valve Disease Etiology 2 	Format:	Text (categorical values specified by STS)
ParentShortName:	VDMiEt2	DataLength:	
ParentValue:	<>"No additional etiology" And Is Not Missing	Data Source:	User
ParentHarvestCode	es: <>2 And Is Not Missing		

Harvest Codes:

Code: Value:

- 2 No additional etiology
- 3 Degenerative
- 4 Rheumatic
- 5 Ischemic acute, post infarction
- 6 Ischemic chronic
- 7 Non-ischemic Cardiomyopathy
- 8 Endocarditis
- 9 Hypertrophic Obstructive

	Cardiomyopathy (HOCM)
10	Tumor, Carcinoid
11	Tumor, Myxoma
12	Tumor, Papillary fibroelastoma
13	Tumor, Other
14	Carcinoid
15	Trauma
16	Congenital
17	Prior Mitral Valve Intervention, Etiology Unknown
18	Other

Long Name:	VD-Mitral Valve Lesion 1	SeqNo:	1735
Short Name:	VDMiLes1	Core:	Yes
Section Name:	Hemodynamics/Cath/Echo	Harvest:	Yes

Definition: Indicate the first mitral valve lesion type or choose unknown.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	VD-Mitral	Format:	Text (categorical values specified by STS)
ParentShortName:	VDMit	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCode	<i>es:</i> 1		

Harvest Codes:

Code: Value:

- 1 Unknown
- 3 Leaflet prolapse, posterior
- 4 Leaflet prolapse, bileaflet
- 5 Leaflet prolapse, anterior
- 6 Elongated/ruptured chord(s)
- 7 Annular dilation
- 8 Leaflet calcification
- 9 Mitral annular calcification
- 10 Papillary muscle elongation
- 11 Papillary muscle rupture
- 12 Leaflet thickening/retraction
- 13 Chordal tethering

STS Adult Cardiac Surgery Database

STS Audit Cardiac Surg	jery Dalabase			VEISION	. 2.01
14	Chordal thickening/retraction/fusion				
15	Commissural fusion				
16	Other				
10	other				
Long Name: VD-M	itral Valve Lesion 2			SeqNo:	1740
Short Name: VDMi	Les2			Core:	Yes
Section Name: Hemod	lynamics/Cath/Echo			Harvest:	Yes
DBTableName Adult	Data				
Definition: Indicate t	the second mitral valve lesion if	there is one, or	choose no additional les	ions.	
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name: \	/D-Mitral Valve Lesion 1	Format:	Text (categorical values	specified by	STS)
ParentShortName: V	DMiLes1	DataLength:			
	>"Unknown" And Is Not Iissing	Data Source:	User		
ParentHarvestCodes:	<>1 And Is Not Missing				
Harvest Codes:					
Code:	Value:				
2	No additional lesions				
3	Leaflet prolapse, posterior				
4	Leaflet prolapse, bileaflet				
5	Leaflet prolapse, anterior				
6	Elongated/ruptured chord(s)				
7	Annular dilation				
8	Leaflet calcification				
9	Mitral annular calcification				
10	Papillary muscle elongation				
11	Papillary muscle rupture				
12	Leaflet thickening/retraction				
13	Chordal tethering				
14	Chordal thickening/retraction/fusion				
15	Commissural fusion				
16	Other				

STS Adult Cardiac Surgery Database				Versior	า: 2.81
Long Name: VD-Mitral Valve Lesio	on 3			SeqNo:	1745
Short Name: VDMiLes3				Core:	Yes
Section Name: Hemodynamics/Cath/E	cho			Harvest:	Yes
DBTableName AdultData					
<i>Definition:</i> Indicate the third mitral w	alve lesion if there is o	one, or cl	hoose no additional les	sions.	
LowValue: UsualRangeLo	w:				
HighValue: UsualRangeHi	gh:				
Parent Long Name: VD-Mitral Valve	Lesion 2 Forma	at:	Text (categorical valu	es specified by	STS)
ParentShortName: VDMiLes2	DataL	ength:			
ParentValue: $<>$ "No additionalIs Not Missing	lesions" And Data S	Source:	User		
ParentHarvestCodes: <>2 And Is Not	Missing				
Harvest Codes:					
Code: Value:					
2 No additional	esions				
3 Leaflet prolaps	e, posterior				
4 Leaflet prolaps	e, bileaflet				
5 Leaflet prolaps	e, anterior				
6 Elongated/rupt	ured chord(s)				
7 Annular dilatio	on				
8 Leaflet calcific	ation				
9 Mitral annular	calcification				
10 Papillary musc	le elongation				
11 Papillary musc	le rupture				
12 Leaflet thicken	ing/retraction				
13 Chordal tether	ng				
14 Chordal thickening/retr	action/fusion				
15 Commissural f	usion				
16 Other					

STS Adult Cardiac Surgery Database			Versior	n: 2.81
Long Name: VD-Mitral Valve Disease Etiology			SeqNo:	1750
Short Name: VDMitET			Core:	No
Section Name: Hemodynamics/Cath/Echo			Harvest:	No
DBTableName AdultData				
Definition: Indicate primary etiology of mitral valve	e disease.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VD-Mitral	Format:	Text (categorical value	es specified by	STS)
ParentShortName: VDMit	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Annular or Degenerative Disease				
2 Endocarditis				
3 Rheumatic				
4 Ischemic				
5 Congenital				
6 Hypertrophic Obstructive Cardiomyopathy (HOCM)				
7 Tumor				
8 Trauma				
9 Non-ischemic cardiomyopath	у			
10 Other				

STS Adult Cardiac Surgery Database		Version:	2.81
Long Name: VD-Mitral Valve Disease Degenerativ	ve Location	SeqNo:	1755
Short Name: VDMitDegLoc		Core:	No
Section Name: Hemodynamics/Cath/Echo		Harvest:	No
DBTableName AdultData			
Definition: Indicate the location of the degenerative	mitral disease.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VD-Mitral Valve Disease Etiology	Format:	Text (categorical values specified by S	TS)
ParentShortName: VDMitET	DataLength:		
<i>ParentValue:</i> = "Annular or Degenerative Disease"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Posterior Leaflet			
2 Anterior Leaflet			
3 Bileaflet			
Long Name: VD-Mitral Annular Disease Type		SeqNo:	1760
Short Name: VDMitAnDegDis		Core:	No
Section Name: Hemodynamics/Cath/Echo		Harvest:	No
DBTableName AdultData			
Definition: Indicate the type of mitral valve annular	disease.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VD-Mitral Valve Disease Etiology	Format:	Text (categorical values specified by S	TS)
ParentShortName: VDMitET	DataLength:		
<i>ParentValue:</i> = "Annular or Degenerative Disease"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Pure Annular Dilation			
2 Mitral Annular Calcification			

STS Adult Cardiac Surgery Database			Versior	า: 2.81
Long Name: VD-Mitral Valve Disease Ischemic Ty	ype		SeqNo:	1765
Short Name: VDMitIsTy			Core:	No
Section Name: Hemodynamics/Cath/Echo			Harvest:	No
DBTableName AdultData				
Definition: Indicate type of ischemic mitral disease.				
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VD-Mitral Valve Disease Etiology	Format:	Text (categorical value	s specified by	STS)
ParentShortName: VDMitET	DataLength:			
ParentValue: = "Ischemic"	Data Source:	User		
ParentHarvestCodes: 4				
Harvest Codes and Value Definitions:				
Code: Value:	Definition:			
1 Acute	Within 30 c	lays of MI		
2 Chronic	Greater that	n 30 days after MI		
V			C M	1770
Long Name: VD-Mitral Valve Tumor Type			SeqNo:	1770
Short Name: VDMitTumor Section Name: Hemodynamics/Cath/Echo			Core: Harvest:	No No
DBTableName AdultData			1101 vest.	110
<i>Definition:</i> Indicate the type of cardiac tumor.				
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:				
Parent Long Name: VD-Mitral Valve Disease	Format:	Text (categorical value	s specified by	STS)
Etiology	1 07770		o opeenned of	212)
ParentShortName: VDMitET	DataLength:			
<i>ParentValue:</i> = "Tumor"	Data Source:	User		
ParentHarvestCodes: 7				
Harvest Codes:				
Code: Value:				
1 Myxoma				
2 Papillary fibroelastoma				
3 Carcinoid				
4 Other				

STS Adult Cardiac Surgery Database		1
Long Name: VD-Insuff-Tricuspid	SeqNo: 177	15
Short Name: VDInsufT	Core: Ye	es
Section Name: Hemodynamics/Cath/Echo	Harvest: Ye	es

Definition: Indicate whether there is evidence of Tricuspid valve insufficiency/regurgitation. Enter level of valve function associated with highest risk (i.e., worst performance).

Enter the highest level recorded in the chart. "Moderately severe" should be coded as "Severe".

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			

Harvest Codes:

 Code:
 Value:

 0
 None

 1
 Trivial/Trace

 2
 Mild

 3
 Moderate

 4
 Severe

 5
 Not documented

Long Name: VD-Tricuspid SeqNo:

Short Name: VDTr Core: Yes Section Name: Hemodynamics/Cath/Echo Harvest: Yes DBTableName AdultData Definition: Indicate whether Tricuspid Valve disease is present. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Format: Text (categorical values specified by STS) ParentShortName: DataLength: ParentValue: Data Source: User ParentHarvestCodes: Harvest Codes: Code: Value: 1 Yes

1780

STS Adult Cardiac Surgery Database		Version	1: 2.81
Long Name: VD-Stenosis-Tricuspid		SeqNo:	1785
Short Name: VDStenT		Core:	Yes
Section Name: Hemodynamics/Cath/Echo		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether Tricuspid Stenosis i	is present.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VD-Tricuspid	Format:	Text (categorical values specified by	STS)
ParentShortName: VDTr	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
Long Name: VD-Tricuspid Annular Measureme	ent Available	SeqNo:	1790
Short Name: VDTrAnnMeas		Core:	Yes
Section Name: Hemodynamics/Cath/Echo		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether a tricuspid annular of	diameter measuren	nent is available.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VD-Tricuspid	Format:	Text (categorical values specified by	STS)
ParentShortName: VDTr	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Cardiac Surg	gery Database			Versio	n: 2.81
Long Name: VD-Tr	ricuspid Annulus Size			SeqNo:	1795
Short Name: VDTr.	AnnSize			Core:	Yes
Section Name: Hemod	lynamics/Cath/Echo			Harvest:	Yes
DBTableName Adult	Data				
Definition: Indicate	tricuspid annular diameter in	cm.			
LowValue: 1.5	UsualRangeLow:				
HighValue: 10.0	UsualRangeHigh:				
Parent Long Name: N	VD-Tricuspid Annular Measurement Available	Format:	Real		
ParentShortName: V	DTrAnnMeas	DataLength:			
ParentValue: =	"Yes"	Data Source:	User		
ParentHarvestCodes:	1				
Long Name: VD-Tr	icuspid Valve Disease Etiolo	gy 1		SeqNo:	1800
Short Name: VDTr				Core:	Yes
Section Name: Hemoc	lynamics/Cath/Echo			Harvest:	Yes
DBTableName Adult	Data				
Definition: Indicate	the etiology of the tricuspid v	alve disease if kn	own.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name: N	VD-Tricuspid	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: V	DTr	DataLength:			
ParentValue: =	"Yes"	Data Source:	User		
ParentHarvestCodes:	1				
Harvest Codes:					
Code:	Value:				
1	Unknown				
3	Functional				
4	Endocarditis				
5	Carcinoid				
6	Congenital				
7	Degenerative				
8	Pacing wire/catheter induce dysfunction	d			
8		d			
-	dysfunction	d			
9	dysfunction Rheumatic	d			

STS Adult

STS Adult Cardiac Surgery Database		Version: 2	2.81
Intervention, Etiology Unknown			
13 Other			
Long Name: VD-Tricuspid Valve Disease Etio	ology 2	SeqNo:	1805
Short Name: VDTrEt2		Core:	Yes
Section Name: Hemodynamics/Cath/Echo		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate additional etiology of tricus etiology.	spid valve disease if	any, otherwise choose no additional	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VD-Tricuspid Valve Diseas Etiology 1	e Format:	Text (categorical values specified by ST	CS)
ParentShortName: VDTrEt1	DataLength:		
ParentValue: <pre></pre>	Data Source:	User	
<i>ParentHarvestCodes:</i> <>1 And Is Not Missing			
Harvest Codes:			
Code: Value:			
2 No additional etiology			
3 Functional			
4 Endocarditis			
5 Carcinoid			
6 Congenital			
-			

- 7 Degenerative
- Pacing wire/catheter induced 8 dysfunction
- 9 Rheumatic
- 10 Tumor
- 11 Trauma
- Prior Tricuspid Valve 12 Intervention, Etiology Unknown
- 13 Other

STS Adult Cardiac Surg	gery Database		Version	: 2.81
Long Name: VD-Tr	ricuspid Valve Disease Etiology	3	SeqNo:	1810
Short Name: VDTr	Et3		Core:	Yes
Section Name: Hemoc	dynamics/Cath/Echo		Harvest:	Yes
DBTableName Adult	Data			
Definition: Indicate a etiology.	•••	valve disease if	any, otherwise choose no additional	
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
	VD-Tricuspid Valve Disease Etiology 2	Format:	Text (categorical values specified by	STS)
ParentShortName: V	/DTrEt2	DataLength:		
	>"No additional etiology" and Is Not Missing	Data Source:	User	
ParentHarvestCodes:	<>2 And Is Not Missing			
Harvest Codes:				
Code:	Value:			
2	No additional etiology			
3	Functional			
4	Endocarditis			
5	Carcinoid			
6	Congenital			
7	Degenerative			
8	Pacing wire/catheter induced dysfunction			
9	Rheumatic			
10	Tumor			
11	Trauma			
12	Prior Tricuspid Valve Intervention, Etiology Unknown			
13	Other			

	Version: 2.81
Long Name: VD-Tricuspid Etiology	SeqNo: 1815
Short Name: VDTrEt	Core: No
Section Name: Hemodynamics/Cath/Echo	Harvest: No
DBTableName AdultData	
Definition: Indicate primary etiology of tric	cuspid valve disease.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: VD-Tricuspid	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: VDTr	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes and Value Definitions:	
<u>Code: Value:</u>	Definition:
1 Functional	annular dilatation with or without leaflet tethering
2 Endocarditis	
3 Congenital	
4 Tumor	
5 Trauma	
6 Other	
Long Name: VD-Insuff-Pulmonic	G N 1000
	<i>SeqNo:</i> 1820
Short Name: VDInsufP	<i>SeqNo:</i> 1820 <i>Core:</i> Yes
	-
Short Name: VDInsufP Section Name: Hemodynamics/Cath/Echo	Core: Yes
Short Name: VDInsufP Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate whether there is eviden	<i>Core:</i> Yes <i>Harvest:</i> Yes nee of Pulmonic valve insufficiency/regurgitation. Enter level of
Short Name: VDInsufP Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate whether there is eviden	Core: Yes Harvest: Yes
Short Name: VDInsufP Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate whether there is eviden valve function associated with h	<i>Core:</i> Yes <i>Harvest:</i> Yes nee of Pulmonic valve insufficiency/regurgitation. Enter level of
Short Name: VDInsufP Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate whether there is eviden valve function associated with h	<i>Core:</i> Yes <i>Harvest:</i> Yes nee of Pulmonic valve insufficiency/regurgitation. Enter level of nighest risk (i.e., worst performance).
Short Name: VDInsufP Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate whether there is eviden valve function associated with H Enter the highest level recorded	<i>Core:</i> Yes <i>Harvest:</i> Yes nee of Pulmonic valve insufficiency/regurgitation. Enter level of nighest risk (i.e., worst performance).
Short Name: VDInsufP Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate whether there is eviden valve function associated with H Enter the highest level recorded LowValue: UsualRangeLow: HighValue: UsualRangeHigh:	<i>Core:</i> Yes <i>Harvest:</i> Yes nee of Pulmonic valve insufficiency/regurgitation. Enter level of nighest risk (i.e., worst performance).
Short Name: VDInsufP Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate whether there is eviden valve function associated with H Enter the highest level recorded LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name:	<i>Core:</i> Yes <i>Harvest:</i> Yes nee of Pulmonic valve insufficiency/regurgitation. Enter level of nighest risk (i.e., worst performance).
Short Name: VDInsufP Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate whether there is eviden valve function associated with H Enter the highest level recorded LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: ParentShortName:	Core: Yes Harvest: Yes nee of Pulmonic valve insufficiency/regurgitation. Enter level of nighest risk (i.e., worst performance). I in the chart. "Moderately severe" should be coded as "Severe". Format: Text (categorical values specified by STS)
Short Name: VDInsufP Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate whether there is eviden valve function associated with H Enter the highest level recorded LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: ParentShortName: ParentValue:	Core: Yes Harvest: Yes nee of Pulmonic valve insufficiency/regurgitation. Enter level of highest risk (i.e., worst performance). I in the chart. "Moderately severe" should be coded as "Severe". Format: Text (categorical values specified by STS) DataLength:
Short Name: VDInsufP Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate whether there is eviden valve function associated with H Enter the highest level recorded LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: ParentShortName: ParentValue:	Core: Yes Harvest: Yes nee of Pulmonic valve insufficiency/regurgitation. Enter level of highest risk (i.e., worst performance). I in the chart. "Moderately severe" should be coded as "Severe". Format: Text (categorical values specified by STS) DataLength:
Short Name: VDInsufP Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate whether there is eviden valve function associated with H Enter the highest level recorded LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: ParentShortName: ParentValue: ParentHarvestCodes:	Core: Yes Harvest: Yes nee of Pulmonic valve insufficiency/regurgitation. Enter level of highest risk (i.e., worst performance). I in the chart. "Moderately severe" should be coded as "Severe". Format: Text (categorical values specified by STS) DataLength:
Short Name: VDInsufP Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate whether there is eviden valve function associated with H Enter the highest level recorded LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: ParentShortName: ParentValue: ParentHarvestCodes: Harvest Codes:	Core: Yes Harvest: Yes nee of Pulmonic valve insufficiency/regurgitation. Enter level of highest risk (i.e., worst performance). I in the chart. "Moderately severe" should be coded as "Severe". Format: Text (categorical values specified by STS) DataLength:

2 Mild	
3 Moderate	
4 Severe	
5 Not documented	
Long Name: VD-Pulmonic	SeqNo: 1825
Short Name: VDPulm	Core: Yes
Section Name: Hemodynamics/Cath/Echo	Harvest: Yes
DBTableName AdultData	
Definition: Indicate whether Pulmonic Valve of	isease is present.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Harvest Codes:	
<u>Code:</u> <u>Value:</u>	
1 Yes	
2 No	
Long Name: VD-Pulmonic-RVEDD Known	<i>SeqNo:</i> 1830
Short Name: RVEDDKnown	Core: Yes
Section Name: Hemodynamics/Cath/Echo	Harvest: Yes
DBTableName AdultData	
Definition: Indicate whether the Right Ventrice	alar End-Diastolic Dimension (RVEDD) is available.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: VD-Pulmonic	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: VDPulm	DataLength:

Data Source: User

ParentHarvestCodes: 1

ParentValue:

Harvest Codes:

<u>Code:</u> <u>Value:</u> 1 Yes

= "Yes"

2 No

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: VD-Pulmonic-RVEDD Indexed To B	SA		SeqNo:	1835
Short Name: RVEDD			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate (in cm squared) the RVEDD inc	lexed to BSA.			
LowValue: 0.5 UsualRangeLow:				
HighValue: 5.0 UsualRangeHigh:				
Parent Long Name: VD-Pulmonic-RVEDD Known	Format:	Real		
ParentShortName: RVEDDKnown	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Long Name: VD-Stenosis-Pulmonic			SeqNo:	1840
Short Name: VDStenP			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether Pulmonic Stenosis is pr	resent.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VD-Pulmonic	Format:	Text (categorical value	s specified by	STS)
ParentShortName: VDPulm	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

Short Name: PuHemoDatAvail C Short Name: Hemodynamics/Cath/Echo Harve DBTableName AdultData Harve Definition: Indicate whether pulmonary valve gradient is available. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Format: Text (categorical values specified)	
Section Name: Hemodynamics/Cath/Echo Harve DBTableName AdultData Definition: Indicate whether pulmonary valve gradient is available. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: VD-Stenosis-Pulmonic	vest: Yes
DBTableName AdultData Definition: Indicate whether pulmonary valve gradient is available. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: VD-Stenosis-Pulmonic Format: Text (categorical values specified)	
Definition:Indicate whether pulmonary valve gradient is available.LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:VD-Stenosis-PulmonicFormat:Text (categorical values specified)	ified by STS)
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:VD-Stenosis-PulmonicFormat:Text (categorical values specified)	ified by STS)
HighValue:UsualRangeHigh:Parent Long Name:VD-Stenosis-PulmonicFormat:Text (categorical values specified)	ified by STS)
HighValue:UsualRangeHigh:Parent Long Name:VD-Stenosis-PulmonicFormat:Text (categorical values specified)	ified by STS)
	ified by STS)
ParentShortName: VDStenP DataLength:	
ParentValue: = "Yes" Data Source: User	
ParentHarvestCodes: 1	
Harvest Codes:	
Code: Value:	
1 Yes	
2 No	
Long Name: VD-Pulmonic Gradient-Highest Mean Seq.	qNo: 1850
	Core: Yes
Section Name: Hemodynamics/Cath/Echo Harve	vest: Yes
DBTableName AdultData	
Definition: Indicate highest mean PV gradient documented prior to incision.	
LowValue: 0 UsualRangeLow:	
HighValue: 200 UsualRangeHigh:	
Parent Long Name: VD-Pulmonic Hemodynamic Format: Integer Data Available	
ParentShortName: PuHemoDatAvail DataLength:	
ParentValue: = "Yes" Data Source: User	
ParentHarvestCodes: 1	

STS Adult Cardiac Surgery Database			Versio	า: 2.81
Long Name: VD-Pulmonic Valve Disease Etiology			SeqNo:	1855
Short Name: VDPuEt			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the etiology of pulmonary valve	disease if know	wn.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VD-Pulmonic	Format:	Text (categorical value	s specified by	STS)
ParentShortName: VDPulm	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Acquired				
2 Congenital, s/p Tetralogy of Fallot (TOF) repair				
3 Congenital, no prior Tetralogy of Fallot (TOF) repair				
4 Prior Pulmonic Valve Intervention, Etiology Unknown				
5 Other				
6 Unknown				

Long Name:	Disease Of The Aorta	SeqNo:	1860
Short Name:	AortaDisease	Core:	Yes
Section Name:	Hemodynamics/Cath/Echo	Harvest:	Yes

Definition: Indicate whether there is a documented disease or lesion of the aorta above the diaphragm.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			
Harvest Codes:			
Code:	Value:		
1	Yes		

STS Adult Cardiac Su	rgery Database
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2 No

2 110				
Long Name: Disease Of The Aorta - Presentation			SeqNo:	1865
Short Name: ADPres			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the patient's aortic disease prese	entation.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Disease Of The Aorta	Format:	Text (categorical value	es specified by	STS)
ParentShortName: AortaDisease	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Asymptomatic				
2 Symptomatic, hemodynamics stable				
3 Symptomatic, hemodynamics unstable				
Long Name: Disease Of The Aorta - Location - Ro	ot		SeqNo:	1870
Short Name: ADLocRoot			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the aortic disease/lesion	n is present in t	he aortic root.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Disease Of The Aorta	Format:	Text (categorical value	es specified by	STS)
ParentShortName: AortaDisease	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database		Versic	on: 2.81
Long Name: Disease Of The Aorta - Location	- Ascending	SeqNo:	187:
Short Name: ADLocAsc		Core:	Ye
Section Name: Hemodynamics/Cath/Echo		Harvest:	Ye
DBTableName AdultData			
Definition: Indicate whether the aortic disease/l	esion is present in t	he ascending aorta.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Disease Of The Aorta	Format:	Text (categorical values specified by	y STS)
ParentShortName: AortaDisease	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
<i>Long Name:</i> Disease Of The Aorta - Location	- Arch	SeqNo:	1880
Short Name: ADLocArch		Core:	Yes
Section Name: Hemodynamics/Cath/Echo		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether the aortic disease/l	esion is present in t	he aortic arch.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Disease Of The Aorta	Format:	Text (categorical values specified by	y STS)
ParentShortName: AortaDisease	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			

STS Adult Cardiac Surgery Database		Version:	2.81
Long Name: Disease Of The Aorta - Location	- Descending Thora	acic SeqNo:	188
Short Name: ADLocDesThor		Core:	Ye
Section Name: Hemodynamics/Cath/Echo		Harvest:	Ye
DBTableName AdultData			
Definition: Indicate whether the aortic disease/le	esion is present in t	he descending aorta.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Disease Of The Aorta	Format:	Text (categorical values specified by S	STS)
ParentShortName: AortaDisease	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
Long Name: Disease Of The Aorta - Location -	- Thoracoabdomina	l SeqNo:	1890
Short Name: ADLocThora	- Thoracoabdomina	l SeqNo: Core:	Ye
õ	- Thoracoabdomina	*	Ye
Short Name: ADLocThora Section Name: Hemodynamics/Cath/Echo	- Thoracoabdomina	Core:	Ye
Short Name: ADLocThora		Core: Harvest:	1890 Yes Yes
Short Name: ADLocThora Section Name: Hemodynamics/Cath/Echo DBTableName AdultData		Core: Harvest:	Ye
Short Name:ADLocThoraSection Name:Hemodynamics/Cath/EchoDBTableNameAdultDataDefinition:Indicate whether the aortic disease/leLowValue:UsualRangeLow:		Core: Harvest:	Ye
Short Name:ADLocThoraSection Name:Hemodynamics/Cath/EchoDBTableNameAdultDataDefinition:Indicate whether the aortic disease/leLowValue:UsualRangeLow:HighValue:UsualRangeHigh:		Core: Harvest:	Ye Ye
Short Name:ADLocThoraSection Name:Hemodynamics/Cath/EchoDBTableNameAdultDataDefinition:Indicate whether the aortic disease/leLowValue:UsualRangeLow:	esion is present in t	Core: Harvest: he thoracoabdominal aorta.	Ye Ye
Short Name:ADLocThoraSection Name:Hemodynamics/Cath/EchoDBTableNameAdultDataDefinition:Indicate whether the aortic disease/leLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Disease Of The Aorta	esion is present in t <i>Format:</i>	Core: Harvest: he thoracoabdominal aorta. Text (categorical values specified by S	Ye Ye
Short Name: ADLocThora Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate whether the aortic disease/le LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Disease Of The Aorta ParentShortName: AortaDisease ParentValue: = "Yes"	esion is present in t Format: DataLength:	Core: Harvest: he thoracoabdominal aorta. Text (categorical values specified by S	Ye Ye
Short Name: ADLocThora Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate whether the aortic disease/le LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Disease Of The Aorta ParentShortName: AortaDisease	esion is present in t Format: DataLength:	Core: Harvest: he thoracoabdominal aorta. Text (categorical values specified by S	Ye Ye
Short Name: ADLocThora Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate whether the aortic disease/le LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Disease Of The Aorta ParentShortName: AortaDisease ParentValue: = "Yes" ParentHarvestCodes: 1	esion is present in t Format: DataLength:	Core: Harvest: he thoracoabdominal aorta. Text (categorical values specified by S	Ye: Ye:
Short Name: ADLocThora Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate whether the aortic disease/le LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Disease Of The Aorta ParentShortName: AortaDisease ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes:	esion is present in t Format: DataLength:	Core: Harvest: he thoracoabdominal aorta. Text (categorical values specified by S	Ye: Ye:

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Disease Of The Aorta - Lesion Ty	pe - Aneurysm		SeqNo:	189:
Short Name: ADLesTAneur			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the aortic lesion is	an aneurysm.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Disease Of The Aorta	Format:	Text (categorical va	lues specified by	STS)
ParentShortName: AortaDisease	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Disease Of The Aorta - Lesion Ty	/pe - Coarctation/Na	arrowing	SeqNo:	1900
Short Name: ADLesTCoarcNar			Core:	Yes
Section Name: Hemodynamics/Cath/Echo			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate whether the aortic lesion is	a coarctation or nar	rowing.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Disease Of The Aorta	Format:	Text (categorical va	lues specified by	STS)
ParentShortName: AortaDisease	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database		Version:	2.81
Long Name: Disease Of The Aorta - Lesion Ty	ype - Rupture	SeqNo:	1905
Short Name: ADLesTRup		Core:	Ye
Section Name: Hemodynamics/Cath/Echo		Harvest:	Ye
DBTableName AdultData			
Definition: Indicate whether the aortic lesion is	an aortic rupture.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Disease Of The Aorta	Format:	Text (categorical values specified by S	TS)
ParentShortName: AortaDisease	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
Long Name: Disease Of The Aorta - Lesion Ty	ype - Pseudoaneurys		191(
Short Name: ADLesTPseudo		Core:	Ye
Section Name: Hemodynamics/Cath/Echo		Harvest:	Ye
DBTableName AdultData			
	a pseudoaneurysm.		
Definition: Indicate whether the aortic lesion is	a pseudoaneurysm.		
Definition:Indicate whether the aortic lesion isLowValue:UsualRangeLow:HighValue:UsualRangeHigh:	a pseudoaneurysm.		
Definition:Indicate whether the aortic lesion isLowValue:UsualRangeLow:HighValue:UsualRangeHigh:	a pseudoaneurysm. <i>Format:</i>	Text (categorical values specified by S	TS)
Definition:Indicate whether the aortic lesion isLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Disease Of The AortaParentShortName:AortaDisease	Format: DataLength:		TS)
Definition:Indicate whether the aortic lesion isLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Disease Of The Aorta	Format:		TS)
Definition:Indicate whether the aortic lesion isLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Disease Of The AortaParentShortName:AortaDiseaseParentValue:= "Yes"	Format: DataLength:		TS)
Definition:Indicate whether the aortic lesion isLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Disease Of The AortaParentShortName:AortaDiseaseParentValue:= "Yes"	Format: DataLength:		TS)
Definition:Indicate whether the aortic lesion isLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Disease Of The AortaParentShortName:AortaDiseaseParentValue:= "Yes"ParentHarvestCodes:1	Format: DataLength:		TS)
Definition:Indicate whether the aortic lesion isLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Disease Of The AortaParentShortName:AortaDiseaseParentValue:= "Yes"ParentHarvestCodes:1Harvest Codes:1	Format: DataLength:		TS)

STS Adult Cardiac Surgery Database		Version: 2.8
Long Name: Disease Of The Aorta - Lesion Ty	ype - Penetrating Ulo	cer SeqNo: 19
Short Name: ADLesTPenUlcer		Core: Y
Section Name: Hemodynamics/Cath/Echo		Harvest: Y
DBTableName AdultData		
Definition: Indicate whether the aortic lesion is	a penetrating ulcer.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Disease Of The Aorta	Format:	Text (categorical values specified by STS
ParentShortName: AortaDisease	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Law Manuel Dissess Of The Acate I . T		~
•	ype - Intramural Hen	_
Short Name: ADLesTIntraHema	ype - Intramural Hen	Core: Y
	ype - Intramural Hen	_
Short Name: ADLesTIntraHema Section Name: Hemodynamics/Cath/Echo	ype - Intramural Hen	Core: Y
Short Name: ADLesTIntraHema	-	Core: Y Harvest: Y
Short Name:ADLesTIntraHemaSection Name:Hemodynamics/Cath/EchoDBTableNameAdultData	-	Core: Y Harvest: Y
Short Name: ADLesTIntraHema Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate whether the aortic lesion is	-	Core: Y Harvest: Y
Short Name:ADLesTIntraHemaSection Name:Hemodynamics/Cath/EchoDBTableNameAdultDataDefinition:Indicate whether the aortic lesion isLowValue:UsualRangeLow:	-	Core: Y Harvest: Y
Short Name:ADLesTIntraHemaSection Name:Hemodynamics/Cath/EchoDBTableNameAdultDataDefinition:Indicate whether the aortic lesion isLowValue:UsualRangeLow:HighValue:UsualRangeHigh:	an intramural hemat	Core: Y Harvest: Y
Short Name:ADLesTIntraHemaSection Name:Hemodynamics/Cath/EchoDBTableNameAdultDataDefinition:Indicate whether the aortic lesion isLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Disease Of The Aorta	an intramural hemat Format:	Core: Y Harvest: Y toma.
Short Name:ADLesTIntraHemaSection Name:Hemodynamics/Cath/EchoDBTableNameAdultDataDefinition:Indicate whether the aortic lesion isLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Disease Of The AortaParentShortName:AortaDisease	an intramural hemat Format: DataLength:	Core: Y Harvest: Y toma.
Short Name:ADLesTIntraHemaSection Name:Hemodynamics/Cath/EchoDBTableNameAdultDataDefinition:Indicate whether the aortic lesion isLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Disease Of The AortaParentShortName:AortaDiseaseParentValue:= "Yes"	an intramural hemat Format: DataLength:	Core: Y Harvest: Y toma.
Short Name: ADLesTIntraHema Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate whether the aortic lesion is LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Disease Of The Aorta ParentShortName: AortaDisease ParentValue: = "Yes" ParentHarvestCodes: 1	an intramural hemat Format: DataLength:	Core: Y Harvest: Y toma.
Short Name: ADLesTIntraHema Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate whether the aortic lesion is LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Disease Of The Aorta ParentShortName: AortaDisease ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes:	an intramural hemat Format: DataLength:	Core: Y Harvest: Y toma.

STS Adult Cardiac Surgery Database			Versior	n: 2.81
Long Name: Disease Of The Aorta - Lesion Type -	Dissection		SeqNo:	192
Short Name: ADLesTDis			Core:	Ye
Section Name: Hemodynamics/Cath/Echo			Harvest:	Ye
DBTableName AdultData				
Definition: Indicate whether the aortic lesion is a di	ssection.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Disease Of The Aorta	Format:	Text (categorical values	specified by	STS)
ParentShortName: AortaDisease	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
<u>Code:</u> <u>Value:</u>				
1 Yes				
2 No				
• • • • • • •	Dissection Tin	ning	SeqNo: Core:	
	Dissection Tin	ning	-	1930 Yes Yes
Short Name: ADLesTDisTmg Section Name: Hemodynamics/Cath/Echo DBTableName AdultData	Dissection Tin	ning	Core:	Yes
Short Name: ADLesTDisTmg Section Name: Hemodynamics/Cath/Echo	Dissection Tin	ning	Core:	Yes
Short Name: ADLesTDisTmg Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate dissection timing. LowValue: UsualRangeLow:	Dissection Tin	ning	Core:	Ye
Short Name:ADLesTDisTmgSection Name:Hemodynamics/Cath/EchoDBTableNameAdultDataDefinition:Indicate dissection timing.LowValue:UsualRangeLow:HighValue:UsualRangeHigh:		-	Core: Harvest:	Ye: Ye:
Short Name: ADLesTDisTmg Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate dissection timing. LowValue: UsualRangeLow:	Dissection Tin	ning Text (categorical values	Core: Harvest:	Ye: Ye:
Short Name:ADLesTDisTmgSection Name:Hemodynamics/Cath/EchoDBTableNameAdultDataDefinition:Indicate dissection timing.LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Disease Of The Aorta - Lesion		-	Core: Harvest:	Ye: Ye:
Short Name: ADLesTDisTmg Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate dissection timing. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Disease Of The Aorta - Lesion Type - Dissection Type - Dissection	Format:	Text (categorical values	Core: Harvest:	Ye: Ye:
Short Name: ADLesTDisTmg Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate dissection timing. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Disease Of The Aorta - Lesion Type - Dissection ParentShortName: ADLesTDis	Format: DataLength:	Text (categorical values	Core: Harvest:	Ye: Ye:
Short Name: ADLesTDisTmg Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate dissection timing. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Disease Of The Aorta - Lesion Type - Dissection ParentShortName: ParentValue: = "Yes"	Format: DataLength:	Text (categorical values	Core: Harvest:	Ye: Ye:
Short Name: ADLesTDisTmg Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate dissection timing. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Disease Of The Aorta - Lesion Type - Dissection ParentShortName: ADLesTDis ParentValue: = "Yes" ParentHarvestCodes: 1	Format: DataLength:	Text (categorical values	Core: Harvest:	Ye: Ye:
Short Name: ADLesTDisTmg Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate dissection timing. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Disease Of The Aorta - Lesion Type - Dissection ParentShortName: ADLesTDis ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes:	Format: DataLength:	Text (categorical values	Core: Harvest:	Ye Ye
Short Name: ADLesTDisTmg Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate dissection timing. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Disease Of The Aorta - Lesion Type - Dissection ParentShortName: ADLesTDis ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes: 1 Harvest Codes: <u>Code: Value:</u>	Format: DataLength:	Text (categorical values	Core: Harvest:	Ye Ye
Short Name: ADLesTDisTmg Section Name: Hemodynamics/Cath/Echo DBTableName AdultData Definition: Indicate dissection timing. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Disease Of The Aorta - Lesion Type - Dissection ParentShortName: ADLesTDis ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes: <u>Code: Value:</u> 1 Acute	Format: DataLength:	Text (categorical values	Core: Harvest:	Ye: Ye:

STS Adult Cardiac Surgery Database		Version:	2.81
Long Name: Disease Of The Aorta - Lesion Type -	- Dissection Typ	se SeqNo:	1935
Short Name: ADLesTDisTy		Core:	Yes
Section Name: Hemodynamics/Cath/Echo		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the type of aortic dissection.			
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Disease Of The Aorta - Lesion Type - Dissection	Format:	Text (categorical values specified by S	STS)
ParentShortName: ADLesTDis	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Stanford Type A			
2 Stanford Type B			
Long Name: Aorta Etiology 1		SeqNo:	1940
Short Name: ADEt1		Core:	Yes
Section Name: Hemodynamics/Cath/Echo		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the etiology of aortic disease/le	sion if known.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Disease Of The Aorta	Format:	Text (categorical values specified by S	STS)
ParentShortName: AortaDisease	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Unknown			
3 Aberrant Subclavian artery			
4 Atherosclerosis			
5 Bicuspid aortic valve syndrome			
6 Ehler-Danlos syndrome			
7 Endocarditis			
8 Hypertensive aneurysm			

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9	Inflammatory			
10	Loeys-Dietz Syndrome			
11	Marfan Syndrome			
12	Trauma			
13	Other Congenital Disorder			
14	Other Connective Tissue Disorder			
15	Other			
Long Name: Aorta	Etiology 2		SeqNo:	1945
Short Name: ADEť	2		Core:	Yes
Section Name: Hemoc	lynamics/Cath/Echo		Harvest:	Yes
DBTableName Adult	Data			
Definition: Indicate	additional etiology of aortic di	sease/lesion if ar	ny, otherwise choose no additional et	iology.
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
Parent Long Name: A	Aorta Etiology 1	Format:	Text (categorical values specified b	y STS)
ParentShortName: A	DEt1	DataLength:		
	>"Unknown" And Is Not fissing	Data Source:	User	
ParentHarvestCodes:	<>1 And Is Not Missing			
Harvest Codes:				
Code:	Value:			
2	No additional etiologies			
3	Aberrant Subclavian artery			
4	Atherosclerosis			
5	Bicuspid aortic valve syndrome			
6	Ehler-Danlos syndrome			
7	Endocarditis			
8	Hypertensive aneurysm			
9	Inflammatory			
10	Loeys-Dietz Syndrome			
11	Marfan Syndrome			
12	Trauma			
13	Other Congenital Disorder			
14	Other Connective Tissue Disorder			

15 Other

Short Name: ADEt	3			Core:	Yes
Section Name: Hemoc	dynamics/Cath/Echo			Harvest:	Yes
DBTableName Adult	Data				
Definition: Indicate	additional etiology of aortic di	isease/lesion if ar	ny, otherwise choose no a	dditional etiol	logy.
LowValue: HighValue:	UsualRangeLow: UsualRangeHigh:				
Parent Long Name: A	Aorta Etiology 2	Format:	Text (categorical values	specified by	STS)
ParentShortName: A	ADEt2	DataLength:			
	>"No additional etiology" and Is Not Missing	Data Source:	User		
ParentHarvestCodes:	<>2 And Is Not Missing				
Harvest Codes:					
Code:	Value:				
2	No additional etiologies				
3	Aberrant Subclavian artery				
4	Atherosclerosis				
5	Bicuspid aortic valve syndrome				
6	Ehler-Danlos syndrome				
7	Endocarditis				
8	Hypertensive aneurysm				

- 9 Inflammatory
- 10 Loeys-Dietz Syndrome
- 11 Marfan Syndrome
- 12 Trauma
- Other Congenital Disorder 13
- 14 Other Connective Tissue Disorder
- 15 Other

SeqNo:

1950

Yes Yes

Aorta Etiology 3

Long Name:

STS Adult Cardiac Surgery Databa	It Cardiac Surgery Database Version	
Long Name: Surgeon	SeqNo:	1955
Short Name: Surgeon	Core:	Yes
Section Name: Operative	Harvest:	Yes

Definition: Indicate the name of the surgeon responsible for the patient's care.

This field must have controlled data entry where a user selects the surgeon name from a user list. This will remove variation in spelling, abbreviations and punctuation within the field.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by User)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			

Long Name: Surgeon's National Provider Identifier		SeqNo:	1960
Short Name: SurgNPI		Core:	Yes
Section Name: Operative		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate the individual-level National Pro For Non-US surgeons a unique identifier	0 1	orming the procee	lure.
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Surgeon	Format: Text (categorical va	lues specified by	User)
ParentShortName: Surgeon	DataLength:		
ParentValue: Is Not Missing	Data Source: Lookup		
ParentHarvestCodes: Is Not Missing			

STS Adult Cardiac Surgery Database		Versior	n: 2.81
Long Name: Taxy	bayer Identification Number	SeqNo:	1965
Short Name: TIN		Core:	Yes
Section Name: Open	ative	Harvest:	Yes

Definition: Indicate the Taxpayer Identification Number for the Taxpayer holder of record for the Surgeon's National Provider Identifier that performed the procedure. This may be an individual TIN or a group TIN depending on billing. This information is vital for PQRS reporting. This field will be blank for Non-US participants

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by User)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	Lookup
ParentHarvestCodes:			

Long Name:	Incidence	SeqNo:	1970
Short Name:	Incidenc	Core:	Yes
Section Name:	Operative	Harvest:	Yes

DBTableName AdultData

Definition: Indicate if this is the patient's: -first surgery -first re-op surgery -second re-op surgery -third re-op surgery -fourth or more re-op surgery.

Surgery is defined as cardiothoracic operations (heart or great vessels) surgical procedures performed with or without cardiopulmonary bypass (CPB). Also include lung procedures utilizing CPB or tracheal procedures utilizing CPB. Reoperation increases risk due to the presence of scar tissue and adhesions.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			

Harvest Codes:

Code: Value:

- 1 First cardiovascular surgery
- 2 First re-op cardiovascular surgery

STS Adult Cardiac Surgery Database

- 3 Second re-op cardiovascular surgery
- 4 Third re-op cardiovascular surgery
- 5 Fourth or more re-op cardiovascular surgery

Long Name:	Status	SeqNo:	1975
Short Name:	Status	Core:	Yes
Section Name:	Operative	Harvest:	Yes

DBTableName AdultData

Definition: Indicate the clinical status of the patient prior to entering the operating room.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			

Harvest Codes and Value Definitions:

Code:	Value:	Definition:
1	Elective	The patient's cardiac function has been stable in the days or weeks prior to the operation. The procedure could be deferred without increased risk of compromised cardiac outcome.
2	Urgent	Procedure required during same hospitalization in order to minimize chance of further clinical deterioration. Examples include but are not limited to: Worsening, sudden chest pain, CHF, acute myocardial infarction (AMI), anatomy, IABP, unstable angina (USA) with intravenous (IV) nitroglycerin (NTG) or rest angina.
3	Emergent	Patients requiring emergency operations will have ongoing, refractory (difficult, complicated, and/or unmanageable) unrelenting cardiac compromise, with or without hemodynamic instability, and not responsive to any form of therapy except cardiac surgery. An emergency operation is one in which there should be no delay in providing operative intervention.
4	Emergent Salvage	The patient is undergoing CPR en route to the OR or prior to anesthesia induction or has ongoing ECMO to maintain life.

STS Adult Cardiac Sure	gery Database			Versior	n: 2.81
Long Name: Urgent	t Reason			SeqNo:	1980
Short Name: Urgnt	Rsn			Core:	No
Section Name: Operat	ive			Harvest:	No
DBTableName Adult	Data				
Definition: Indicate	the PRIMARY reason why the j	patient had an u	rgent status.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name: S	Status	Format:	Text (categorical values	specified by	STS)
ParentShortName: S	tatus	DataLength:			
ParentValue: =	"Urgent"	Data Source:	User		
ParentHarvestCodes:	2				
Harvest Codes:					
Code:	Value:				
1	AMI				
2	IABP				
3	Worsening CP				
4	CHF				
5	Anatomy				
6	USA (unstable angina)				
7	Rest Angina				
8	Valve Dysfunction				
9	Aortic Dissection				
10	Angiographic Accident				
11	Cardiac Trauma				
12	Infected Device				
13	Syncope				
14	PCI/CABG Hybrid				
15	PCI Failure without clinical deterioration				

STS Adult Cardiac Surgery Database		Version: 2.81		
	Long Name:	Emergent Reason	SeqNo:	1985
	Short Name:	EmergRsn	Core:	No
	Section Name:	Operative	Harvest:	No

Definition: Indicate the PRIMARY reason why the patient had Emergent Status.

Patients requiring emergency operations will have ongoing, refractory (difficult, complicated, and/or unmanageable) unrelenting cardiac compromise, with or without hemodynamic instability, and not responsive to any form of therapy except cardiac surgery. An emergency operation is one in which there should be no delay in providing operative intervention.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name: St	tatus	Format:	Text (categorical values specified by STS)
ParentShortName: Sta	atus	DataLength:	
ParentValue: = '	"Emergent"	Data Source:	User
ParentHarvestCodes:	3		
Harvest Codes a	nd Value Definitions:		
Code:	Value:	Definition:	
1	Shock Circ Support		
2	Shock No Circ Support		
3	Pulmonary Edema		
4	Acute Evolving Myocardial Infarction (AEMI)	Acute Evolution	ving Myocardial Infarction within 24 hours ery
5	Ongoing Ischemia		
6	Valve Dysfunction		
7	Aortic Dissection		
8	Angiographic Accident		
9	Cardiac Trauma		
10	Infected Device		
11	Syncope		
12	PCI/CABG Hybrid		
13	Anatomy		

STS Adult Card	diac Surgery Database	Versior	n: 2.81
Long Name:	Urgent Or Emergent Reason	SeqNo:	1990
Short Name:	UrgEmergRsn	Core:	Yes
Section Name:	· Operative	Harvest:	Yes
Short Name:	UrgEmergRsn	Core:	Yes

Definition: Choose one reason from the list below that best describes why this operation was considered urgent or emergent.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Status	Format:	Text (categorical values specified by STS)
ParentShortName:	Status	DataLength:	
ParentValue:	= "Urgent" or "Emergent"	Data Source:	User
ParentHarvestCode	s: 2 3		

Harvest Codes:

	Code:	Value:
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- 1 AMI
- 2 Anatomy
- 3 Aortic Aneurysm
- 4 Aortic Dissection
- 5 CHF
- 6 Device Failure
- 7 Diagnostic/Interventional Procedure Complication
- 8 Endocarditis
- 9 Failed Transcatheter Valve Therapy
- 10 IABP
- 11 Infected Device
- 12 Intracardiac mass or thrombus
- 13 Ongoing Ischemia
- 14 PCI Incomplete without clinical deterioration
- 15 PCI or attempted PCI with Clinical Deterioration
- 16 Pulmonary Edema
- 17 Pulmonary Embolus
- 18 Rest Angina
- 19 Shock Circulatory Support
- 20 Shock No Circulatory Support
- 21 Syncope

22 Transplant				
23 Trauma				
24 USA				
25 Valve Dysfunction				
26 Worsening CP				
27 Other				
Long Name: Previously Attempted Case Cance	led		SeqNo:	1995
Short Name: PCancCase			Core:	Yes
Section Name: Operative			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate whether this case was previous after patient entered the operating room of the operatin		ring this admission and	canceled or abo	orted
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name:	Format:	Text (categorical value	es specified by	STS)
ParentShortName:	DataLength:			
ParentValue:	Data Source:	User		
ParentHarvestCodes:				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Previously Attempted Canceled Ca	ase Date		SeqNo:	2000
Short Name: PCancCaseDt			Core:	Yes
Section Name: Operative			Harvest:	Yes
DBTableName AdultData				
Definition: Enter date previously attempted case	was canceled.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Previously Attempted Case Canceled	Format:	Date mm/dd/yyyy
ParentShortName:	PCancCase	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCodes	x: 1		

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Previously Attempted Canceled	Case Timing SeqNo: 2005
Short Name: PCancCaseTmg	Core: Yes
Section Name: Operative	Harvest: Yes
DBTableName AdultData	
Definition: Indicate at what point previously a	ttempted case was canceled or aborted.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Previously Attempted Cas Canceled	e Format: Text (categorical values specified by STS)
ParentShortName: PCancCase	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes:	
Code: Value:	
1 Prior to Induction of Anesthesia	
2 After Induction, Prior to Incision	
3 After Incision Made	
Long Name: Previously Attempted Canceled	Case Reason SeqNo: 2010
Short Name: PCancCaseRsn	Core: Yes
Section Name: Operative	Harvest: Yes
DBTableName AdultData	
Definition: Indicate the reason why the previo	usly attempted case was canceled or aborted.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Previously Attempted Cas Canceled	e Format: Text (categorical values specified by STS)
ParentShortName: PCancCase	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes and Value Definitions:	
Code: Value:	Definition:
1 Anesthesiology event	Includes airway, line insertion and medication issues encountered during induction
2 Cardiac arrest	Patient deterioration unrelated to induction
3 Equipment/supply issue	Device malfunction or supply issue including devices and blood products

4	Unanticipated tumor	
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- 7 Donor organ unacceptable
- 8 Abnormal labs
- 5 Other

Long Name: Previously Attempted Canceled	Case Procedure - CABG	<i>SeqNo:</i> 2013
Short Name: PCancCaseCAB		Core: Ye
Section Name: Operative		Harvest: Ye
DBTableName AdultData		
<i>Definition:</i> Indicate whether the plan for the pr grafting.	reviously attempted procedure include	ed coronary artery bypass
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Previously Attempted Case Canceled	e Format: Text (categorica	al values specified by STS)
ParentShortName: PCancCase	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source: User	
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: Previously Attempted Canceled Device Short Name: PCancCaseMech	Case Procedure - Mechanical Assist	SeqNo: 2020 Core: Ye
Section Name: Operative		Harvest: Ye
DBTableName AdultData		
	reviously attempted procedure include	ed implanting or explanting
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Previously Attempted Case Canceled	e Format: Text (categorica	al values specified by STS)
ParentShortName: PCancCase	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source: User	
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		

2 No

Long Name: Previously Attempted Cancele	ed Case Procedure - Other Non-Cardiac SeqNo: 20
Short Name: PCancCaseONC	Core: Y
Section Name: Operative	Harvest: Y
DBTableName AdultData	
<i>Definition:</i> Indicate whether the plan for the procedure.	e previously attempted procedure included any other non-cardiac
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Previously Attempted C Canceled	ase <i>Format:</i> Text (categorical values specified by STS)
ParentShortName: PCancCase	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes:	
Code: Value:	
1 Yes	
2 No	
Short Name: PCancCaseValSur Section Name: Operative	Core: Y Harvest: Y
DBTableName AdultData	nuivest. 1
	e previously attempted procedure included a surgical valve
procedure.	, previously attempted procedure included a surgical valve
procedure.	
LowValue: UsualRangeLow:	
-	
LowValue: UsualRangeLow:	Case Format: Text (categorical values specified by STS)
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Previously Attempted C	Case <i>Format:</i> Text (categorical values specified by STS) <i>DataLength:</i>
LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Previously Attempted C Canceled	
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Previously Attempted C CanceledParentShortName:PCancCase	DataLength:
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Previously Attempted C. CanceledParentShortName:PCancCaseParentValue:= "Yes"	DataLength:
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Previously Attempted C. CanceledParentShortName:PCancCaseParentValue:= "Yes"ParentHarvestCodes:1	DataLength:
LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Previously Attempted Conceled ParentShortName: PCancCase ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes:	DataLength:

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Previously Attempted Canc	celed Case Procedure - Valve, Transcatheter SeqNo: 2035
Short Name: PCancCaseValTrans	Core: Yes
Section Name: Operative	Harvest: Yes
DBTableName AdultData	
<i>Definition:</i> Indicate whether the plan for procedure.	the previously attempted procedure included a transcatheter valve
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Previously Attempted Canceled	Case Format: Text (categorical values specified by STS)
ParentShortName: PCancCase	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes:	
Code: Value:	
1 Yes	
2 No	
Long Name: Previously Attempted Canc	celed Case Procedure - Other Cardiac SeqNo: 2040
Short Name: PCancCaseOC	Core: Yes
Section Name: Operative	Harvest: Yes
Section Hume. Operative	
DBTableName AdultData	
DBTableName AdultData	the previously attempted procedure included any other cardiac
DBTableName AdultData Definition: Indicate whether the plan for	the previously attempted procedure included any other cardiac
DBTableName AdultData Definition: Indicate whether the plan for procedure.	the previously attempted procedure included any other cardiac
DBTableName AdultData Definition: Indicate whether the plan for procedure. LowValue: UsualRangeLow:	
DBTableName AdultData Definition: Indicate whether the plan for procedure. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Previously Attempted	
DBTableName AdultData Definition: Indicate whether the plan for procedure. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Previously Attempted Canceled	Case <i>Format:</i> Text (categorical values specified by STS)
DBTableName AdultData Definition: Indicate whether the plan for procedure. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Previously Attempted Canceled ParentShortName: PCancCase	Case Format: Text (categorical values specified by STS) DataLength:
DBTableName AdultData Definition: Indicate whether the plan for procedure. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Previously Attempted Canceled ParentShortName: PCancCase ParentValue: = "Yes"	Case Format: Text (categorical values specified by STS) DataLength:
DBTableName AdultData Definition: Indicate whether the plan for procedure. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Previously Attempted Canceled ParentShortName: PCancCase ParentValue: = "Yes" ParentHarvestCodes: 1	Case Format: Text (categorical values specified by STS) DataLength:
DBTableName AdultData Definition: Indicate whether the plan for procedure. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Previously Attempted Canceled ParentShortName: PCancCase ParentHarvestCodes: 1 Harvest Codes: 1	Case Format: Text (categorical values specified by STS) DataLength:

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Previously Attempted Canceled Cas	se Procedure - Va	lve	SeqNo:	2045
Short Name: PCancCaseVal			Core:	No
Section Name: Operative			Harvest:	No
DBTableName AdultData				
<i>Definition:</i> Indicate whether the plan for the previreplacement.	ously attempted p	procedure included a val	ve repair or	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Previously Attempted Case Canceled	Format:	Text (categorical value	es specified by	STS)
ParentShortName: PCancCase	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Current Case Canceled			SeqNo:	2050
Short Name: CCancCase			Core:	Yes
Section Name: Operative			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the current case was	canceled or abort	ed after patient entered	the operating r	oom.
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name:	Format:	Text (categorical value	es specified by	STS)
ParentShortName:	DataLength:			
ParentValue:	Data Source:	User		
ParentHarvestCodes:				
Harvest Codes:				
Code: Value:				
Code: Value: 1 Yes				

STS Adult Cardiac Surgery Database	Version: 2	2.81
Long Name: Current Case Canceled Timing	SeqNo:	205
Short Name: CCancCaseTmg	Core:	Ye
Section Name: Operative	Harvest:	Ye
DBTableName AdultData		
Definition: Indicate at what point the current case	was canceled or aborted.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Current Case Canceled	<i>Format:</i> Text (categorical values specified by ST	FS)
ParentShortName: CCancCase	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source: User	
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Prior to Induction of Anesthesia		
2 After Induction, Prior to Incision		
3 After Incision Made		
Long Name: Current Case Canceled Reason	SeqNo:	206
Short Name: CCancCaseRsn	Core:	Ye
Section Name: Operative	Harvest:	Ye
DBTableName AdultData		
Definition: Indicate the reason why the current ca	se was canceled or aborted.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Current Case Canceled	<i>Format:</i> Text (categorical values specified by ST	FS)
ParentShortName: CCancCase	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source: User	
ParentHarvestCodes: 1		
Harvest Codes and Value Definitions:		
Code: Value:	Definition:	
1 Anesthesiology event	Includes airway, line insertion and medication issues encountered during induction	5
2 Cardiac arrest	Patient deterioration unrelated to induction	
3 Equipment/supply issue	Device malfunction or supply issue including device and blood products	es
6 Access issue		

- 7 Donor organ unacceptable
- 8 Abnormal labs
- 5 Other

Long Name:	Current Case Canceled Procedure - CABG	SeqNo:	2065
Short Name:	CCancCaseCAB	Core:	Yes
Section Name:	Operative	Harvest:	Yes

Definition: Indicate whether the plan for the current procedure included coronary artery bypass grafting.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Current Case Canceled	Format:	Text (categorical values specified by STS)
ParentShortName:	CCancCase	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCode	<i>es:</i> 1		

Harvest Codes:

Code: Value: 1 Yes

2 No

Long Name: Current Case Canceled Procedure - Va	alve		SeqNo:	2070
Short Name: CCancCaseVal			Core:	No
Section Name: Operative			Harvest:	No
DBTableName AdultData				
Definition: Indicate whether the plan for the current	procedure inclu	uded a valve repair or rep	placement.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Current Case Canceled	Format:	Text (categorical values	s specified by	v STS)
ParentShortName: CCancCase	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

Version: 2.81

STS Adult Cardiac Surgery Database		Versio	n: 2.81
Long Name: Current Case Canceled Procedure	- Mechanical Assist	Device SeqNo:	2075
Short Name: CCancCaseMech		Core:	Yes
Section Name: Operative		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether the plan for the cur assist device.	rent procedure includ	ed implanting or explanting a mecha	anical
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Current Case Canceled	Format: T	Text (categorical values specified by	STS)
ParentShortName: CCancCase	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source: U	Jser	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
Long Name: Current Case Canceled Procedure	- Other Non-cardiac	SeqNo:	2080
Short Name: CCancCaseONC		Core:	Yes
Section Name: Operative		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether the plan for the cur	rent procedure includ	ed any other non-cardiac procedure.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Current Case Canceled	Format: 7	Text (categorical values specified by	STS)
ParentShortName: CCancCase	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source: U	Jser	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Cardiac Surgery Database		Versio	on: 2.81
Long Name: Current Case Canceled Procedure	- Valve, Surgical	SeqNo:	2085
Short Name: CCancCaseValSur		Core:	Yes
Section Name: Operative		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether the plan for the pre procedure.	viously attempted p	procedure included a surgical valve	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Current Case Canceled	Format:	Text (categorical values specified by	y STS)
ParentShortName: CCancCase	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
<i>Long Name:</i> Current Case Canceled Procedure	- Valve, Transcath	eter SeqNo:	2090
Short Name: CCancCaseValTrans		Core:	Yes
Section Name: Operative		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether the plan for the pre procedure.	viously attempted p	procedure included a transcatheter val	ve
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Current Case Canceled	Format:	Text (categorical values specified by	y STS)
ParentShortName: CCancCase	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Cardiac Surg	ery Database			Versio	n: 2.81
Long Name: Current	t Case Canceled Procedure - Of	ther Cardiac		SeqNo:	209
Short Name: CCanc	CaseOC			Core:	Ye
Section Name: Operati	ve			Harvest:	Ye
DBTableName AdultI	Data				
Definition: Indicate v	whether the plan for the current	procedure inclu	uded any other cardiac p	procedure.	
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name: C	Current Case Canceled	Format:	Text (categorical value	es specified by	STS)
ParentShortName: Co	CancCase	DataLength:			
ParentValue: =	"Yes"	Data Source:	User		
ParentHarvestCodes:	1				
Harvest Codes:					
	Value:				
1	Yes				
2	No				
Long Name: Operati	ive Approach			SeqNo:	210
Short Name: OPApp)			Core:	Ye
Section Name: Operati	ve			Harvest:	Ye
DBTableName AdultI	Data				
Definition: Indicate t	he initial operative approach.				
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:		Format:	Text (categorical value	es specified by	STS)
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentHarvestCodes:					
Harvest Codes:					
	Value:				
1	Full conventional sternotomy				
2	Partial sternotomy				
6	Transverse sternotomy				
	(includes clamshell)				
3	Right or left parasternal incision				
8	Sub-xiphoid				
9	Sub-costal				
4	Left thoracotomy				

STS Adult Cardiac Surgery Database

Short Name: Appresent Section Name: Opera DBTableName Adul Definition: Indicate LowValue: HighValue:	bachCon tive		SeqNo: 2105 Core: Yes Harvest: Yes
11 12 13 14 15 16 17 18 Long Name: Opera Short Name: Appres Section Name: Opera DBTableName Adul Definition: Indicate LowValue: HighValue:	Limited (mini) thoracotomy, right Limited (mini) thoracotomy, left Limited (mini) thoracotomy, bilateral Thoracoabdominal incision Percutaneous Port access Other None (canceled case) tive Approach Converted machCon		Core: Yes
12 13 14 15 16 17 18 <i>Long Name:</i> Opera <i>Short Name:</i> Appro <i>Section Name:</i> Opera <i>DBTableName</i> Adul <i>Definition:</i> Indicate <i>LowValue:</i> <i>HighValue:</i>	right Limited (mini) thoracotomy, left Limited (mini) thoracotomy, bilateral Thoracoabdominal incision Percutaneous Port access Other None (canceled case) tive Approach Converted pachCon		Core: Yes
13 14 15 16 17 18 Long Name: Opera Short Name: Appro Section Name: Opera DBTableName Adul Definition: Indicate LowValue: HighValue:	left Limited (mini) thoracotomy, bilateral Thoracoabdominal incision Percutaneous Port access Other None (canceled case) tive Approach Converted pachCon		Core: Yes
14 15 16 17 18 <i>Long Name:</i> Opera <i>Short Name:</i> Appr <i>Section Name:</i> Opera <i>DBTableName</i> Adul <i>Definition:</i> Indicate <i>LowValue:</i> <i>HighValue:</i>	bilateral Thoracoabdominal incision Percutaneous Port access Other None (canceled case) tive Approach Converted pachCon		Core: Yes
15 16 17 18 <i>Long Name:</i> Opera <i>Short Name:</i> Appro <i>Section Name:</i> Opera <i>DBTableName</i> Adul <i>Definition:</i> Indicate <i>LowValue:</i> <i>HighValue:</i>	Percutaneous Port access Other None (canceled case) tive Approach Converted pachCon		Core: Yes
16 17 18 <i>Long Name:</i> Opera <i>Short Name:</i> Appr <i>Section Name:</i> Opera <i>DBTableName</i> Adul <i>Definition:</i> Indicate <i>LowValue:</i> <i>HighValue:</i>	Port access Other None (canceled case) tive Approach Converted pachCon		Core: Yes
17 18 Long Name: Opera Short Name: Appro Section Name: Opera DBTableName Adul Definition: Indicate LowValue: HighValue:	Other None (canceled case) tive Approach Converted pachCon		Core: Yes
18 Long Name: Opera Short Name: Appro Section Name: Opera DBTableName Adul Definition: Indicate LowValue: HighValue:	None (canceled case) tive Approach Converted pachCon		Core: Yes
Long Name: Opera Short Name: Appro Section Name: Opera DBTableName Adul Definition: Indicate LowValue: HighValue:	tive Approach Converted pachCon tive		Core: Yes
Short Name: Appresent Section Name: Opera DBTableName Adul Definition: Indicate LowValue: HighValue:	bachCon tive		Core: Yes
LowValue: HighValue:	Short Name: ApproachCon Section Name: Operative DBTableName AdultData		
HighValue:	whether the operative approach	was converted	during the procedure.
	UsualRangeLow:		
Parent Long Name:	UsualRangeHigh:	Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			
Harvest Codes			
Code	Value:		
1	Yes, planned		
2	Yes, unplanned		
3			

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Robot Used		<i>SeqNo:</i> 2110
Short Name: Robotic		Core: Yes
Section Name: Operative		Harvest: Yes
DBTableName AdultData		
Definition: Indicate whether a robot was used durin	g cardiac surger	ry.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name:	Format:	Text (categorical values specified by STS)
ParentShortName:	DataLength:	
ParentValue:	Data Source:	User
ParentHarvestCodes:		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: Robot Use Time Frame		SeqNo: 2115
Short Name: RobotTim		Core: Yes
Section Name: Operative		Harvest: Yes
DBTableName AdultData		
<i>Definition:</i> Indicate the time frame of robotic use.		
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Robot Used	Format:	Text (categorical values specified by STS)
ParentShortName: Robotic	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Used for entire operation		
2 Used for part of the operation	l	

STS Adult Cardiac Surg	ery Database		Version:	2.81
Long Name: CAB			SeqNo:	2120
Short Name: OpCA	В		Core:	Yes
Section Name: Operat	ive		Harvest:	Yes
DBTableName Adult	Data			
Definition: Indicate	whether coronary artery bypa	ss grafting was d	one.	
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
Parent Long Name:		Format:	Text (categorical values specified by S	TS)
ParentShortName:		DataLength:		
ParentValue:		Data Source:	User	
ParentHarvestCodes:				
Harvest Codes:				
Code:	Value:			
3	Yes, planned			
4	Yes, unplanned due to surgical complication			
5	Yes, unplanned due to unsuspected disease or anatomy			
2	No			
Long Name: Valve			SeqNo:	2125
Short Name: OpVal	ve		Core:	Yes
Section Name: Operat			Harvest:	Yes
DBTableName Adultl	Data			
Definition: Indicate	whether a surgical procedure	was done on the	Aortic, Mitral, Tricuspid or Pulmonic va	lves.
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
Parent Long Name:		Format:	Text (categorical values specified by S	TS)
ParentShortName:		DataLength:		
ParentValue:		Data Source:	User	
ParentHarvestCodes:				
Harvest Codes:				
	Value:			
	<u>Value:</u> Yes			

STS Adult Cardiac Surg	gery Database			Versio	n: 2.81
Long Name: VAD I	implanted or Removed			SeqNo:	2130
Short Name: VADE	Proc			Core:	Ye
Section Name: Operat	ive			Harvest:	Yes
DBTableName Adult	Data				
Definition: Indicate	whether a VAD was implan	ited or removed du	ring this hospitalization.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:		Format:	Text (categorical value	s specified by	STS)
ParentShortName:		DataLength:			
ParentValue:		Data Source	: User		
ParentHarvestCodes:					
Harvest Codes:					
Code:	Value:				
5	Yes				
1	No				
Long Name: Other	Card			SeqNo:	2140
Short Name: OpOC	ard			Core:	Yes
Section Name: Operat	ive			Harvest:	Yes
DBTableName Adult	Data				
Definition: Indicate	whether another cardiac pro	ocedure was done	(other than CABG and/or	Valve proced	ures).
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:		Format:	Text (categorical value	s specified by	STS)
ParentShortName:		DataLength:			
ParentValue:		Data Source	: User		
ParentHarvestCodes:					
Harvest Codes:					
	Value:				
Code:					
<u>Code:</u> 1	Yes				

STS Adult Cardiac Surge	ery Database			Versior	n: 2.81
Long Name: Atrial Fi	ibrillation Procedure Perform	med		SeqNo:	214
Short Name: AFibPro	oc			Core:	Ye
Section Name: Operativ	ve		На	irvest:	Ye
DBTableName AdultD	Pata				
Definition: Indicate w	hether an atrial fibrillation p	procedure was per	formed.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:		Format:	Text (categorical values spe	ecified by	STS)
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentHarvestCodes:					
Harvest Codes:					
Code:	Value:				
1	Yes				
2	No				
х. х. А. (° Т				7 37	215
0	Procedure Performed			SeqNo:	215 V
Short Name: AortPro Section Name: Operativ			Ц	Core: irvest:	Ye Ye
DBTableName AdultD			110	uvesi.	10
	whether a procedure was perf	formed on the aor	a		
		office on the dor	u.		
	UsualRangeLow: UsualRangeHigh:				
Parent Long Name:	Osuurkungerrign.	Format:	Text (categorical values sp	ecified by	STS)
ParentShortName:		DataLength:		eenieu ey	212)
ParentValue:		Data Source:	User		
ParentHarvestCodes:					
Harvest Codes:					
<u>Code:</u>	Value:				
	Yes, planned				
4	Yes, unplanned due to surgical complication				
5	Yes, unplanned due to unsuspected disease or				
	anatomy				

STS Adult Cardiac Surgery Da	atabase			Versior	า: 2.81
Long Name: Other Non Ca	urd			SeqNo:	2155
Short Name: OpONCard				Core:	Yes
Section Name: Operative				Harvest:	Yes
DBTableName AdultData					
Definition: Indicate whether	r a non-cardiac procedur	e was done.			
LowValue: Usual	RangeLow:				
HighValue: Usual	lRangeHigh:				
Parent Long Name:		Format:	Text (categorical value	s specified by	STS)
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentHarvestCodes:					
Harvest Codes:					
Code: Value	<u>):</u>				
1 Yes					
2 No					
Long Name: Unplanned Pr	rocedure			SeqNo:	2160
Short Name: UnplProc	occure			Core:	No
Section Name: Operative				Harvest:	No
DBTableName AdultData					
	planned procedure was o	lone during this	s operation.		
LowValue: Usual	RangeLow:				
	RangeHigh:				
Parent Long Name:		Format:	Text (categorical value	s specified by	STS)
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentHarvestCodes:					
Harvest Codes:					
Code: Value	<u>):</u>				
1 No					
	unsuspected patient se or anatomy				
3 Yes, s	surgical complication				

	urgery Database		Version: 2.81
Long Name: Unp	blanned CABG		SeqNo: 2165
Short Name: Ung	plCABG		Core: No
Section Name: Ope	prative		Harvest: No
DBTableName Ad	ultData		
Definition: Indica	te whether unplanned procedure	was a CABG.	
LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Unplanned Procedure	Format:	Text (categorical values specified by STS)
ParentShortName:	UnplProc	DataLength:	
ParentValue:	= "Yes, unsuspected patient disease or anatomy" or "Yes, surgical complication"	Data Source:	User
ParentHarvestCode	<i>es</i> : 2 3		
Harvest Code	es:		
Coc	de: Value:		
	1 Yes		
	2 No		
			<i></i>
· ·	blanned Aortic Valve Procedure		SeqNo: 217(
Short Name: Ung	plAV		Core: No
Short Name: Ung Section Name: Ope	plAV prative		Core: No
Short Name: Ung Section Name: Ope DBTableName Adv	plAV rative ultData		Core: No Harvest: No
Short Name: Ung Section Name: Ope DBTableName Adv	plAV prative	was an aortic val	Core: No Harvest: No
Short Name: Ung Section Name: Ope DBTableName Adu Definition: Indica	plAV rative ultData	was an aortic val	Core: No Harvest: No
Short Name: Ung Section Name: Ope DBTableName Adu Definition: Indica LowValue:	plAV crative ultData te whether unplanned procedure v	was an aortic val	Core: No Harvest: No
Short Name: Ung Section Name: Ope DBTableName Adu Definition: Indica LowValue: HighValue:	pIAV erative ultData te whether unplanned procedure UsualRangeLow:	was an aortic val <i>Format:</i>	Core: No Harvest: No
Short Name: Ung Section Name: Ope DBTableName Adu Definition: Indica LowValue: HighValue: Parent Long Name:	pIAV erative ultData te whether unplanned procedure UsualRangeLow: UsualRangeHigh:		<i>Core:</i> No <i>Harvest:</i> No
Short Name: Ung Section Name: Ope DBTableName Adu Definition: Indica LowValue: HighValue:	pIAV erative ultData te whether unplanned procedure <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Unplanned Procedure	Format:	Core: No Harvest: No lve repair or replacement. Text (categorical values specified by STS)
Short Name: Ung Section Name: Ope DBTableName Adu Definition: Indica LowValue: HighValue: Parent Long Name: ParentShortName: ParentValue:	pIAV prative ultData te whether unplanned procedure v <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Unplanned Procedure UnplProc = "Yes, unsuspected patient disease or anatomy" or "Yes, surgical complication"	Format: DataLength:	Core: No Harvest: No lve repair or replacement. Text (categorical values specified by STS)
Short Name: Ung Section Name: Ope DBTableName Adu Definition: Indica LowValue: HighValue: Parent Long Name: ParentShortName: ParentValue:	plAV prative ultData te whether unplanned procedure v <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Unplanned Procedure UnplProc = "Yes, unsuspected patient disease or anatomy" or "Yes, surgical complication" es: 2 3	Format: DataLength:	Core: No Harvest: No lve repair or replacement. Text (categorical values specified by STS)
Short Name: Ung Section Name: Ope DBTableName Adu Definition: Indica LowValue: HighValue: Parent Long Name: ParentShortName: ParentValue: ParentHarvestCode Harvest Code	plAV prative ultData te whether unplanned procedure v <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Unplanned Procedure UnplProc = "Yes, unsuspected patient disease or anatomy" or "Yes, surgical complication" es: 2 3	Format: DataLength:	Core: No Harvest: No lve repair or replacement. Text (categorical values specified by STS)
Short Name: Ung Section Name: Ope DBTableName Adu Definition: Indica LowValue: HighValue: Parent Long Name: ParentShortName: ParentValue: ParentHarvestCode Harvest Code	pIAV erative ultData te whether unplanned procedure of <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Unplanned Procedure UnplProc = "Yes, unsuspected patient disease or anatomy" or "Yes, surgical complication" es: 2 3	Format: DataLength:	Core: No Harvest: No lve repair or replacement. Text (categorical values specified by STS)

STS Adult Cardiac Surgery Database	Version:	2.81
Long Name: Unplanned Mitral Valve Proce	edure SeqNo:	217
Short Name: UnplMV	Core:	N
Section Name: Operative	Harvest:	N
DBTableName AdultData		
Definition: Indicate whether unplanned proc	edure was a mitral valve repair or replacement.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Unplanned Procedure	Format: Text (categorical values specified by S	STS)
ParentShortName: UnplProc	DataLength:	
ParentValue: = "Yes, unsuspected patie disease or anatomy" or "Y surgical complication"		
ParentHarvestCodes: 2 3		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: Unplanned Aorta Procedure	SeqNo:	218
Short Name: UnplAo	Core:	N
Section Name: Operative	Harvest:	N
-		
DBTableName AdultData		
DBTableName AdultData		
DBTableName AdultData Definition: Indicate whether unplanned proc		
DBTableName AdultData Definition: Indicate whether unplanned proc LowValue: UsualRangeLow: HighValue: UsualRangeHigh:		
DBTableName AdultData Definition: Indicate whether unplanned proc LowValue: UsualRangeLow: HighValue: UsualRangeHigh:		STS)
DBTableNameAdultDataDefinition:Indicate whether unplanned procLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Unplanned Procedure	edure was an aorta procedure.	STS)
DBTableNameAdultDataDefinition:Indicate whether unplanned procLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Unplanned Procedure	edure was an aorta procedure. Format: Text (categorical values specified by S DataLength: ent Data Source: User	STS)
DBTableName AdultData Definition: Indicate whether unplanned proc LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Unplanned Procedure ParentShortName: UnplProc ParentValue: = "Yes, unsuspected patied disease or anatomy" or "Yesurgical complication"	edure was an aorta procedure. Format: Text (categorical values specified by S DataLength: ent Data Source: User	STS)
DBTableName AdultData Definition: Indicate whether unplanned proc LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Unplanned Procedure ParentShortName: UnplProc ParentValue: = "Yes, unsuspected patied disease or anatomy" or "Yesurgical complication"	edure was an aorta procedure. Format: Text (categorical values specified by S DataLength: ent Data Source: User	STS)
DBTableName AdultData Definition: Indicate whether unplanned proc LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Unplanned Procedure ParentShortName: UnplProc ParentValue: = "Yes, unsuspected patied disease or anatomy" or "Yesurgical complication" ParentHarvestCodes: 2 3	edure was an aorta procedure. Format: Text (categorical values specified by S DataLength: ent Data Source: User	STS)
DBTableName AdultData Definition: Indicate whether unplanned process LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Unplanned Procedure ParentShortName: UnplProc ParentValue: = "Yes, unsuspected paties disease or anatomy" or "Yesurgical complication" ParentHarvestCodes: 2 3 Harvest Codes: 2	edure was an aorta procedure. Format: Text (categorical values specified by S DataLength: ent Data Source: User	TS)

STS Adult Cardiac S			Version: 2.81
Long Name: Unp	lanned VAD		SeqNo: 218
Short Name: Unp	IVAD		Core: N
Section Name: Open	rative		Harvest: N
DBTableName Adu	ıltData		
Definition: Indicat	te whether unplanned procedure	was a VAD inser	rtion.
LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Unplanned Procedure	Format:	Text (categorical values specified by STS)
ParentShortName:	UnplProc	DataLength:	
ParentValue:	= "Yes, unsuspected patient disease or anatomy" or "Yes, surgical complication"	Data Source:	User
ParentHarvestCode.	s: 2 3		
Harvest Code	S:		
Cod	le: <u>Value:</u>		
	1 Yes		
:	2 No		
-	lanned Other Procedure		SeqNo: 219
-	lOth		Core: N
Section Name: Open	rative		<i>Core:</i> N <i>Harvest:</i> N
Section Name: Oper DBTableName Adu	rative IltData		
Section Name: Oper DBTableName Adu	rative	vas performed.	
Section Name: Oper DBTableName Adu Definition: Indicat	rative IltData	/as performed.	
Section Name: Oper DBTableName Adu Definition: Indicat LowValue:	rative IltData te if other unplanned procedure w	vas performed.	
Section Name: Open DBTableName Adu Definition: Indicat LowValue: HighValue:	rative IltData te if other unplanned procedure w <i>UsualRangeLow:</i>	vas performed. Format:	
Section Name: Open DBTableName Adu Definition: Indicat LowValue: HighValue: Parent Long Name:	rative IltData te if other unplanned procedure w UsualRangeLow: UsualRangeHigh:	·	<i>Harvest:</i> N
Section Name: Oper DBTableName Adu Definition: Indicat LowValue: HighValue:	rative IltData te if other unplanned procedure w UsualRangeLow: UsualRangeHigh: Unplanned Procedure	Format:	Harvest: N Text (categorical values specified by STS)
Section Name: Oper DBTableName Adu Definition: Indicat LowValue: HighValue: Parent Long Name: ParentShortName: ParentValue:	rative IltData te if other unplanned procedure w <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Unplanned Procedure UnplProc = "Yes, unsuspected patient disease or anatomy" or "Yes, surgical complication"	Format: DataLength:	Harvest: N Text (categorical values specified by STS)
Section Name: Open DBTableName Adu Definition: Indicat LowValue: HighValue: Parent Long Name: ParentShortName: ParentValue:	rative ultData te if other unplanned procedure w <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Unplanned Procedure UnplProc = "Yes, unsuspected patient disease or anatomy" or "Yes, surgical complication" s: 2 3	Format: DataLength:	Harvest: N Text (categorical values specified by STS)
Section Name: Oper DBTableName Adu Definition: Indicat LowValue: HighValue: Parent Long Name: ParentShortName: ParentValue: ParentHarvestCode: Harvest Code	rative ultData te if other unplanned procedure w <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Unplanned Procedure UnplProc = "Yes, unsuspected patient disease or anatomy" or "Yes, surgical complication" s: 2 3	Format: DataLength:	Harvest: N Text (categorical values specified by STS)
Section Name: Oper DBTableName Adu Definition: Indicat LowValue: HighValue: Parent Long Name: ParentShortName: ParentValue: ParentHarvestCode. Harvest Code <u>Cod</u>	rative IltData te if other unplanned procedure w <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Unplanned Procedure UnplProc = "Yes, unsuspected patient disease or anatomy" or "Yes, surgical complication" s: 2 3 es:	Format: DataLength:	Harvest: N Text (categorical values specified by STS)

STS Adult Cardiac Surgery Database			Versior	n: 2.81
Long Name: CPT-1 Code # 1		S	eqNo:	2195
Short Name: CPT1Code1			Core:	Yes
Section Name: Operative		Har	rvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate the first CPT procedure co collection form was initiated.	ode (CPT-1) pertaini	ing to the surgery for which the	e data	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name:	Format:	Text - Length exactly 5		
ParentShortName:	DataLength:			
ParentValue:	Data Source	: User		
ParentHarvestCodes:				

Long Name:	CPT-1 Code # 2	SeqNo:	2200
Short Name:	CPT1Code2	Core:	Yes
Section Name:	Operative	Harvest:	Yes
DBTableName	AdultData		
Definition: I	ndicate, if applicable, the second CPT procedure code (CPT-1) pertaining t	to the surgery for y	which

Definition: Indicate, if applicable, the second CPT procedure code (CPT-1) pertaining to the surgery for which the data collection form was initiated.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	CPT-1 Code # 1	Format:	Text - Length exactly 5
ParentShortName:	CPT1Code1	DataLength:	
ParentValue:	Is Not Missing	Data Source:	User
ParentHarvestCodes	: Is Not Missing		

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STS Adult Cardiac Surgery Database		Versio	n: 2.81
Long Name: CPT-1 Code # 3		SeqNo:	2205
Short Name: CPT1Code3		Core:	Yes
Section Name: Operative		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate, if applicable, the third CPT pr data collection form was initiated.	ocedure code (CPT-1) pertaining to	o the surgery for wh	ich the
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: CPT-1 Code # 2	<i>Format:</i> Text - Length exa	actly 5	
ParentShortName: CPT1Code2	DataLength:		
ParentValue: Is Not Missing	Data Source: User		
ParentHarvestCodes: Is Not Missing			
Long Name: CPT-1 Code # 4		SeqNo:	2210
Short Name: CPT1Code4		Core:	Yes
Section Name: Operative		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate, if applicable, the fourth CPT I the data collection form was initiated.	procedure code (CPT-1) pertaining	to the surgery for w	hich
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: CPT-1 Code # 3	<i>Format:</i> Text - Length exa	actly 5	
ParentShortName: CPT1Code3	DataLength:		

Data Source: User

Is Not Missing

ParentHarvestCodes: Is Not Missing

ParentValue:

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: CPT-1 Code # 5	SeqNo: 221
Short Name: CPT1Code5	<i>Core:</i> Ye
Section Name: Operative	Harvest: Ye
DBTableName AdultData	
<i>Definition:</i> Indicate, if applicable, the fifth CPT procedure code (CPT-1 data collection form was initiated.) pertaining to the surgery for which the
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:CPT-1 Code # 4Format:Tex	xt - Length exactly 5
ParentShortName: CPT1Code4 DataLength:	
ParentValue: Is Not Missing Data Source: Use	er
6	-
ParentHarvestCodes: Is Not Missing Data Source. Use	
6	SeqNo: 222
ParentHarvestCodes: Is Not Missing	
ParentHarvestCodes: Is Not Missing Long Name: CPT-1 Code # 6	SeqNo: 222
ParentHarvestCodes: Is Not Missing Long Name: CPT-1 Code # 6 Short Name: CPT1Code6	SeqNo: 222 Core: Ye
ParentHarvestCodes: Is Not Missing Long Name: CPT-1 Code # 6 Short Name: CPT1Code6 Section Name: Operative	SeqNo: 222 Core: Ye Harvest: Ye
ParentHarvestCodes: Is Not Missing Long Name: CPT-1 Code # 6 Short Name: CPT1Code6 Section Name: Operative DBTableName AdultData Definition: Indicate, if applicable, the sixth CPT procedure code (CPT-1)	SeqNo: 222 Core: Ye Harvest: Ye
ParentHarvestCodes: Is Not Missing Long Name: CPT-1 Code # 6 Short Name: CPT1Code6 Section Name: Operative DBTableName AdultData Definition: Indicate, if applicable, the sixth CPT procedure code (CPT-1) the data collection form was initiated.	SeqNo: 222 Core: Ye Harvest: Ye
ParentHarvestCodes: Is Not Missing Long Name: CPT-1 Code # 6 Short Name: CPT1Code6 Section Name: Operative DBTableName AdultData Definition: Indicate, if applicable, the sixth CPT procedure code (CPT-1) the data collection form was initiated. LowValue: UsualRangeLow: HighValue: UsualRangeHigh:	SeqNo: 222 Core: Ye Harvest: Ye
ParentHarvestCodes: Is Not Missing Long Name: CPT-1 Code # 6 Short Name: CPT1Code6 Section Name: Operative DBTableName AdultData Definition: Indicate, if applicable, the sixth CPT procedure code (CPT-1) the data collection form was initiated. LowValue: UsualRangeLow: HighValue: UsualRangeHigh:	SeqNo: 2224 Core: Ye Harvest: Ye 1) pertaining to the surgery for which

ParentHarvestCodes: Is Not Missing

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: CPT-1 Code # 7	<i>SeqNo:</i> 2225
Short Name: CPT1Code7	Core: Yes
Section Name: Operative	Harvest: Yes
DBTableName AdultData	
<i>Definition:</i> Indicate, if applicable, the seventh CPT procedure code (CPT-1) per the data collection form was initiated.	rtaining to the surgery for which
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:CPT-1 Code # 6Format:Text - Leng	gth exactly 5
ParentShortName: CPT1Code6 DataLength:	
ParentValue:Is Not MissingData Source: User	
ParentValue:Is Not MissingData Source:UserParentHarvestCodes:Is Not Missing	
Ũ	
ParentHarvestCodes: Is Not Missing	SeqNo: 2230 Core: Yes
ParentHarvestCodes: Is Not Missing Long Name: CPT-1 Code # 8	•
ParentHarvestCodes: Is Not Missing Long Name: CPT-1 Code # 8 Short Name: CPT1Code8	Core: Yes
ParentHarvestCodes: Is Not Missing Long Name: CPT-1 Code # 8 Short Name: CPT1Code8 Section Name: Operative	Core: Yes Harvest: Yes
ParentHarvestCodes: Is Not Missing Long Name: CPT-1 Code # 8 Short Name: CPT1Code8 Section Name: Operative DBTableName AdultData Definition: Indicate, if applicable, the eighth CPT procedure code (CPT-1) perta	Core: Yes Harvest: Yes
ParentHarvestCodes: Is Not Missing Long Name: CPT-1 Code # 8 Short Name: CPT1Code8 Section Name: Operative DBTableName AdultData Definition: Indicate, if applicable, the eighth CPT procedure code (CPT-1) pertative the data collection form was initiated.	Core: Yes Harvest: Yes
ParentHarvestCodes: Is Not Missing Long Name: CPT-1 Code # 8 Short Name: CPT1Code8 Section Name: Operative DBTableName AdultData Definition: Indicate, if applicable, the eighth CPT procedure code (CPT-1) pertathe data collection form was initiated. LowValue: UsualRangeLow: HighValue: UsualRangeHigh:	Core: Yes Harvest: Yes

Data Source: User

ParentHarvestCodes: Is Not Missing

ParentValue:

Is Not Missing

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: CPT-1 Code # 9	<i>SeqNo:</i> 2235
Short Name: CPT1Code9	Core: Yes
Section Name: Operative	Harvest: Yes
DBTableName AdultData	
<i>Definition:</i> Indicate, if applicable, the ninth CPT procedure co the data collection form was initiated.	de (CPT-1) pertaining to the surgery for which
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: CPT-1 Code # 8 Format:	Text - Length exactly 5
ParentShortName: CPT1Code8 DataLen	gth:
ParentValue: Is Not Missing Data Sou	urce: User
ParentHarvestCodes: Is Not Missing	
č	
ParentHarvestCodes: Is Not Missing	*
ParentHarvestCodes: Is Not Missing Long Name: CPT-1 Code # 10	Core: Yes
ParentHarvestCodes: Is Not Missing Long Name: CPT-1 Code # 10 Short Name: CPT1Code10	Core: Yes
ParentHarvestCodes: Is Not Missing Long Name: CPT-1 Code # 10 Short Name: CPT1Code10 Section Name: Operative	Core: Yes Harvest: Yes
ParentHarvestCodes: Is Not Missing Long Name: CPT-1 Code # 10 Short Name: CPT1Code10 Section Name: Operative DBTableName AdultData Definition: Indicate, if applicable, the tenth CPT procedure code	Core: Yes Harvest: Yes
ParentHarvestCodes: Is Not Missing Long Name: CPT-1 Code # 10 Short Name: CPT1Code10 Section Name: Operative DBTableName AdultData Definition: Indicate, if applicable, the tenth CPT procedure conthe data collection form was initiated.	Core: Yes Harvest: Yes
ParentHarvestCodes: Is Not Missing Long Name: CPT-1 Code # 10 Short Name: CPT1Code10 Section Name: Operative DBTableName AdultData Definition: Indicate, if applicable, the tenth CPT procedure conthe data collection form was initiated. LowValue: UsualRangeLow:	Core: Yes Harvest: Yes
ParentHarvestCodes: Is Not Missing Long Name: CPT-1 Code # 10 Short Name: CPT1Code10 Section Name: Operative DBTableName AdultData Definition: Indicate, if applicable, the tenth CPT procedure conthe data collection form was initiated. LowValue: UsualRangeLow: HighValue: UsualRangeHigh:	<i>Core:</i> Yes <i>Harvest:</i> Yes de (CPT-1) pertaining to the surgery for which Text - Length exactly 5

ParentHarvestCodes: Is Not Missing

STS Adult Cardiac Surger	y Database			Versio	n: 2.81
Long Name: OR Entry	Jord Date And Time			SeqNo:	2245
Short Name: OREntry	D T			Core:	Yes
Section Name: Operative	e			Harvest:	Yes
DBTableName AdultDa	ta				
operating ro	e date and time, to the nearest born. If the procedure was pe erile field, or its equivalent,	rformed in a loc			
LowValue:	JsualRangeLow:				
HighValue: U	JsualRangeHigh:				
Parent Long Name:		Format:	Date and time in the feature in the feature in the time is the tis the time is the time is the time is		
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentHarvestCodes:					
Long Name: OR Exit	Date And Time			SeqNo:	2250
Short Name: ORExit	DT			Core:	Yes
Section Name: Operative	9			Harvest:	Yes
DBTableName AdultDa	ta				
operating ro	e date and time, to the nearest born. If the procedure was pe erile field, or its equivalent,	rformed in a loc	ation other than the OF		
LowValue: U	JsualRangeLow:				
HighValue: U	JsualRangeHigh:				
		Format:	Date and time in the feature in the feature in the time in the tin the time in the time in the time in		
Parent Long Name:					
Parent Long Name: ParentShortName:		DataLength:			
-		DataLength: Data Source:	User		

STS Adult Card	STS Adult Cardiac Surgery Database		n: 2.81
Long Name:	Initial Intubation Date And Time	SeqNo:	2255
Short Name:	IntubateDT	Core:	Yes
Section Name.	Operative	Harvest:	Yes

Definition: Indicate the date (mm/dd/yyyy) and time (hh:mm) (24 hour clock) ventilatory support started. The following guidelines apply:

 Capture the intubation closest to the surgical start time. If the patient was intubated upon admission and remained intubated until the surgical start time, capture this intubation's date and time.
 If the patient was admitted intubated (intubated at another institution) and remained continually intubated until the surgical start time, capture the patient's admission date and time.

3. If the patient was admitted with a tracheostomy in place without ventilatory support, capture the date and time closest to the surgical start time that ventilatory support was initiated.

4. If the patient was admitted with a tracheostomy in place receiving chronic ventilatory support, capture the admission date and time.

5. If the intubation date and time is otherwise unknown, enter the date and time the patient entered the operating room.

6. Do not alter the previously established date and time that ventilatory support was initiated for scenarios including, but not limited to, interruptions in ventilatory support due to accidental extubation/de-cannulation, elective tube change etc.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Date and time in the format mm/dd/yyyy hh:mm with the time in 24-hour clock
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			

STS Adult Cardiac Surgery Database		Version	: 2.81
Long Name:	Initial Extubation Date And Time	SeqNo:	2260
Short Name:	ExtubateDT	Core:	Yes
Section Name.	: Operative	Harvest:	Yes
DDT 11 11			

Definition: Indicate the date (mm/dd/yyyy) and time (hh:mm) (24 hour clock) ventilatory support initially ceased after surgery. The following guidelines apply:

1. Capture the extubation closest to the surgical stop time.

2. If the patient has a tracheostomy and is separated from the mechanical ventilator postoperatively within the hospital admission, capture the date and time of separation from the mechanical ventilator closest to the surgical stop time.

3. If the patient expires while intubated or cannulated and on the ventilator, capture the date and time of expiration.

4. If patient is discharged on chronic ventilatory support, capture the date and time of discharge.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Nar	ne:	Format:	Date and time in the format mm/dd/yyyy hh:mm with the time in 24-hour clock
ParentShortNam	e:	DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCo	odes:		

Long Name:	Skin Incision Start Date And Time	SeqNo:	2265
Short Name:	SIStartDT	Core:	Yes
Section Name	Operative	Harvest:	Yes

DBTableName AdultData

Definition: Indicate the date and time, to the nearest minute (using 24-hour clock), that the first skin incision, or its equivalent, was made.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Date and time in the format mm/dd/yyyy hh:mm with the time in 24-hour clock
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Skin Incision Stop Date And Time		<i>SeqNo:</i> 2270
Short Name: SIStopDT		Core: Yes
Section Name: Operative		Harvest: Yes
DBTableName AdultData		
	leaves the operati	24-hour clock), that the skin incision was ng room with an open incision, collect the
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name:	Format:	Date and time in the format mm/dd/yyyy hh:mm with the time in 24-hour clock
ParentShortName:	DataLength:	
ParentValue:	Data Source:	User
ParentHarvestCodes:		
Long Name: Anesthesia End Date and Time		SeqNo: 2275
Short Name: AnesEndDT		Core: Yes
Section Name: Operative		Harvest: Yes
DBTableName AdultData		
5	longer in persona	ical record. The definition of anesthesia end al attendance, that is, when the patient is
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name:	Format:	Date and time in the format mm/dd/yyyy hh:mm with the time in 24-hour clock
ParentShortName:	DataLength:	
ParentValue:	Data Source:	User

STS Adult Cardiac Surgery Database		Versior	า: 2.81
Long Name: App	ropriate Antibiotic Selection	SeqNo:	2280
Short Name: Abx	Select	Core:	Yes
Section Name: Oper	ative	Harvest:	Yes

3 Exclusion

Definition: Indicate if there was documentation of an order for a first generation or second generation cephalosporin prophylactic antibiotic, documentation that it was given preoperatively or in the event of a documented allergy an alternate antibiotic choice is ordered and administered.

LowValue: HighValue:	UsualRangeLow: UsualRangeHigh:		
Parent Long Name:	0 0	Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes			
Harvest Codes	and Value Definitions:		
Code	<u>: Value:</u>	Definition:	
1	Yes		
2	No		

The reason for not ordering appropriate prophylactic antibiotic is documented in the medical record.

Long Name:	Appropriate Antibiotic Administration Timing	SeqNo:	2285
Short Name:	AbxTiming	Core:	Yes
Section Name.	· Operative	Harvest:	Yes
DBTableName	e AdultData		

Definition: Indicate whether prophylactic antibiotics were administered within one hour of surgical incision or start of procedure if no incision required (two hours if receiving Vancomycin or fluoroquinolone).

The surgical incision time is the time of the first incision, regardless of location.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			
Harvest Codes	and Value Definitions:		
Code:	Value:	Definition:	
1	Yes	Given	
2	No	Not given,	no documented reason

Documented contraindication or rationale for not administering antibiotic in medical record

3 Exclusion

STS Adult Cardiac Surgery Database		Version: 2.81	
Long Name:	Appropriate Antibiotic Discontinuation	SeqNo:	2290
Short Name:	AbxDisc	Core:	Yes
Section Name	: Operative	Harvest:	Yes
DBTableNam	e AdultData		

Definition: Indicate whether the prophylactic antibiotics were ordered to be discontinued OR were discontinued within 48 hours after surgery end time.

Determining the timeframe (within 48 hours) begins at the "surgical end time".

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			

Harvest Codes:

Code:	Value:
1	Yes
2	No
3	Exclusion

Long Name: Additional Intraoperative P	se SeqNo:	2295	
Short Name: AddIntraopPAnti		Core:	Yes
Section Name: Operative		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether an additiona	l prophylactic antibiotic do	ose was given in the operating room.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:	Format:	Text (categorical values specified by ST	ſS)
ParentShortName:	DataLength:		
ParentValue:	Data Source:	User	
ParentHarvestCodes:			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Cardiac Surgery Database		Version:	2.81
Long Name: Lowest Temperature		SeqNo:	2300
Short Name: LwstTemp		Core:	Yes
Section Name: Operative		Harvest:	Yes
DBTableName AdultData			
Definition: Record the patient's lowest core ter	nperature in the operating room in de	egrees centigrade.	
LowValue: 5.0 UsualRangeLow:			
HighValue: 40.0 UsualRangeHigh:			
Parent Long Name:	Format: Real		
ParentShortName:	DataLength:		
ParentValue:	Data Source: User		
ParentHarvestCodes:			
Long Name: Lowest Temperature Source		SeqNo:	2305
Short Name: Lowest TempSrc		Core:	Yes
Section Name: Operative		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate the source where the lowe	st core temperature was measured.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:	Format: Text (categorie	cal values specified by S	STS)
ParentShortName:	DataLength:		
ParentValue:	Data Source: User		
ParentHarvestCodes:			
Harvest Codes:			
Code: Value:			
1 Esophageal			
2 CPB venous return			
3 Bladder			
3 Bladder4 Nasopharyngeal			
4 Nasopharyngeal			
4 Nasopharyngeal5 Tympanic			

STS Adult Cardiac Surgery Database	Version	า: 2.81
Long Name: Lowest Intra-op Hemoglobin	SeqNo:	2310
Short Name: LwstIntraHemo	Core:	Yes
Section Name: Operative	Harvest:	Yes
DBTableName AdultData		
Definition: Enter the lowest measured hemogy values.	lobin recorded in the operating room. Do not enter calculate	d
LowValue: 1.00 UsualRangeLow: 11	00	
HighValue: 50.00 UsualRangeHigh: 18	00	
Parent Long Name:	Format: Real	
ParentShortName:	DataLength:	
ParentValue:	Data Source: User	
ParentHarvestCodes:		
Long Name: Lowest Hematocrit	SeqNo:	2315
Short Name: LwstHct	Core:	Yes
Section Name: Operative	Harvest:	Yes
DBTableName AdultData		
<i>Definition:</i> Enter the lowest measured hemat values.	crit recorded in the operating room. Do not enter calculated	
LowValue: 1.0 UsualRangeLow: 39)	
HighValue: 99.99 UsualRangeHigh: 53)	
Parent Long Name:	Format: Real	
ParentShortName:	DataLength:	
ParentValue:	Data Source: User	
ParentHarvestCodes:		

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Highest Intra-op Glucose	<i>SeqNo:</i> 2320
Short Name: HighIntraGlu	Core: Yes
Section Name: Operative	Harvest: Yes
DBTableName AdultData	
Definition: Enter the highest glucose recorded in the	the operating room.
LowValue: 40 UsualRangeLow: 80	
HighValue: 2000 UsualRangeHigh: 180	
Parent Long Name:	Format: Integer
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Long Name: CPB Utilization	<i>SeqNo:</i> 2325
Short Name: CPBUtil	Core: Yes
Section Name: Operative	Harvest: Yes
DBTableName AdultData	
Definition: Indicate the level of CPB or coronary p	perfusion used during the procedure.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Harvest Codes and Value Definitions:	
Code: Value:	Definition:
1 None	No CPB or coronary perfusion used during the procedure.
2 Combination	With or without CPB and/or with or without coronary perfusion at any time during the procedure (capture conversions from off-pump to on-pump only):
	At start of procedure: No CPB/No Coronary Perfusion -> conversion to -> CPB At start of procedure: No CPB/No Coronary Perfusion -> conversion to -> Coronary perfusion At start of procedure: No CPB/No Coronary Perfusion -> conversion to -> Coronary perfusion -> conversion to -> CPB
3 Full	CPB or coronary perfusion was used for the entire procedure

Definition: Indicate whether the combination procedure from off-pump to on-pump was a planned or an unplanned conversion.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	CPB Utilization	Format:	Text (categorical values specified by STS)
ParentShortName:	CPBUtil	DataLength:	
ParentValue:	= "Combination"	Data Source:	User
ParentHarvestCode	<i>es:</i> 2		

Harvest Codes and Value Definitions:

Code:	Value:	Definition:
1	Planned	The surgeon intended to treat with any of the combination options described in "CPB utilization".
2	Unplanned	The surgeon did not intend to treat with any of the combination options described in "CPB utilization".

Long Name:	CPB Utilization - Unplanned Combination Reason	SeqNo:	2335
Short Name:	CPBCmbR	Core:	Yes
Section Name.	· Operative	Harvest:	Yes

DBTableName AdultData

Definition: Indicate the reason that the procedure required the initiation of CPB and/or coronary perfusion.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	CPB Utilization - Combination Plan	Format:	Text (categorical values specified by STS)
ParentShortName:	CPBCmb	DataLength:	
ParentValue:	= "Unplanned"	Data Source:	User

ParentHarvestCodes: 2

Harvest Codes:

Code: Value:

- 1 Exposure/visualization
- 2 Bleeding
- 3 Inadequate size and/or diffuse disease of distal vessel
- 4 Hemodynamic instability (hypotension/arrhythmias)

SeqNo:

Harvest:

Core:

2330

Yes

Yes

STS Adult Cardiac Surgery Database			Versior	า: 2.81
5 Conduit quality and/or trauma	1			
9 Other				
Long Name: Cannulation - Arterial Cannulation Si	te - Aortic		SeqNo:	2340
Short Name: CanArtStAort			Core:	Yes
Section Name: Operative			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the arterial cannulation	site included th	ne aorta.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CPB Utilization	Format:	Text (categorical value	s specified by	STS)
ParentShortName: CPBUtil	DataLength:			
<i>ParentValue:</i> = "Combination" or "Full"	Data Source:	User		
ParentHarvestCodes: 2 3				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Cannulation - Arterial Cannulation Si	te - Femoral		SeqNo:	2345
Short Name: CanArtStFem			Core:	Yes
Section Name: Operative			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the arterial cannulation	site included a	femoral artery.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CPB Utilization	Format:	Text (categorical value	s specified by	STS)
ParentShortName: CPBUtil	DataLength:			
<i>ParentValue:</i> = "Combination" or "Full"	Data Source:	User		
ParentHarvestCodes: 2 3				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database		Vers	ion: 2.81
Long Name: Cannulation - Arterial Cannulation	Site - Axillary	SeqNo:	235
Short Name: CanArtStAx		Core:	Ye
Section Name: Operative		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether the arterial cannulation	on site included a	n axillary artery.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: CPB Utilization	Format:	Text (categorical values specified b	y STS)
ParentShortName: CPBUtil	DataLength:		
<i>ParentValue:</i> = "Combination" or "Full"	Data Source:	User	
ParentHarvestCodes: 2 3			
Harvest Codes:			
<u>Code:</u> <u>Value:</u>			
1 Yes			
2 No			
Long Name: Cannulation - Arterial Cannulation	Site - Innominate	SeqNo:	2355
Short Name: CanArtStInn		Core:	Yes
Section Name: Operative		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether the arterial cannulation	on site included an	n innominate artery.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: CPB Utilization	Format:	Text (categorical values specified b	y STS)
ParentShortName: CPBUtil	DataLength:		
<i>ParentValue:</i> = "Combination" or "Full"	Data Source:	User	
ParentHarvestCodes: 2 3			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Cannulation - Arterial Cannulation	Site - Other	SeqNo: 236
Short Name: CanArtStOth		<i>Core:</i> Ye
Section Name: Operative		Harvest: Ye
DBTableName AdultData		
Definition: Indicate whether the arterial cannulati	on site included a	ny other artery.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CPB Utilization	Format:	Text (categorical values specified by STS)
ParentShortName: CPBUtil	DataLength:	
<i>ParentValue:</i> = "Combination" or "Full"	Data Source:	User
ParentHarvestCodes: 2 3		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: Cannulation - Venous Cannulation	Site - Femoral	<i>SeqNo:</i> 2365
Short Name: CanVenStFem		Core: Ye
Section Name: Operative		Harvest: Ye
DBTableName AdultData		
Definition: Indicate whether the venous (inflow)	cannulation site in	cluded a femoral vein.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CPB Utilization	Format:	Text (categorical values specified by STS)
ParentShortName: CPBUtil	DataLength:	
<i>ParentValue:</i> = "Combination" or "Full"	Data Source:	User
T urent value. = Combination of Tun		
ParentHarvestCodes: 2 3		
ParentHarvestCodes: 2 3 Harvest Codes:		

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Cannulation - Venous Cannulation	Site - Jugular	SeqNo: 237
Short Name: CanVenStJug		<i>Core:</i> Ye
Section Name: Operative		Harvest: Yes
DBTableName AdultData		
Definition: Indicate whether the venous (inflow)	cannulation site in	cluded a jugular vein.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CPB Utilization	Format:	Text (categorical values specified by STS)
ParentShortName: CPBUtil	DataLength:	
<i>ParentValue:</i> = "Combination" or "Full"	Data Source:	User
ParentHarvestCodes: 2 3		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: Cannulation - Venous Cannulation	Site - Right Atrial	<i>SeqNo:</i> 2375
Short Name: CanVenStRtA		Core: Yes
Section Name: Operative		Harvest: Yes
DBTableName AdultData		
Definition: Indicate whether the venous (inflow)	cannulation site in	cluded the right atrium.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Danaut Lana Mamar CDD Litilization	Eamonate	
Parent Long Name: CPB Othization	Format:	Text (categorical values specified by STS)
Parent Long Name: CPB Utilization ParentShortName: CPBUtil	Formal: DataLength:	lext (categorical values specified by SIS)
ParentShortName: CPBUtil	DataLength:	
ParentShortName:CPBUtilParentValue:= "Combination" or "Full"	DataLength:	
ParentShortName: CPBUtil ParentValue: = "Combination" or "Full" ParentHarvestCodes: 2 3	DataLength:	
ParentShortName: CPBUtil ParentValue: = "Combination" or "Full" ParentHarvestCodes: 2 3 Harvest Codes:	DataLength:	

STS Adult Cardiac Surgery Database		Versi	on: 2.81
Long Name: Cannulation - Venous Cannulation	Site - Left Atrial	SeqNo:	2380
Short Name: CanVenStLfA		Core:	Ye
Section Name: Operative		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether the venous (inflow)	cannulation site in	ncluded the left atrium.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: CPB Utilization	Format:	Text (categorical values specified b	y STS)
ParentShortName: CPBUtil	DataLength:		
<i>ParentValue:</i> = "Combination" or "Full"	Data Source:	User	
ParentHarvestCodes: 2 3			
Harvest Codes:			
<u>Code:</u> <u>Value:</u>			
1 Yes			
2 No			
Long Name: Cannulation - Venous Cannulation	Site - Pulmonary	Vein SeqNo:	2385
Short Name: CanVenStPulm		Core:	Yes
Section Name: Operative		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether the venous (inflow)	cannulation site in	ncluded a pulmonary vein.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: CPB Utilization	Format:	Text (categorical values specified b	y STS)
ParentShortName: CPBUtil	DataLength:		
<i>ParentValue:</i> = "Combination" or "Full"	Data Source:	User	
ParentHarvestCodes: 2 3			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Cardiac Surgery Database		Version	n: 2.81
Long Name: Cannulation - Venous Cannulation	Site - Caval/Bicav	val SeqNo:	2390
Short Name: CanVenStBi		Core:	Yes
Section Name: Operative		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether the venous (inflow) cava.	cannulation site in	cluded the superior and/or inferior ven	ıa
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: CPB Utilization	Format:	Text (categorical values specified by	STS)
ParentShortName: CPBUtil	DataLength:		
<i>ParentValue:</i> = "Combination" or "Full"	Data Source:	User	
ParentHarvestCodes: 2 3			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
<i>Long Name:</i> Cannulation - Venous Cannulation	Site - Other	SeqNo:	2395
Short Name: CanVenStOth		Core:	Yes
Section Name: Operative		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether the venous (inflow)	cannulation site in	cluded any other site.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: CPB Utilization	Format:	Text (categorical values specified by	STS)
ParentShortName: CPBUtil	DataLength:		
<i>ParentValue:</i> = "Combination" or "Full"	Data Source:	User	
ParentHarvestCodes: 2 3			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Card	liac Surgery Database	Version	n: 2.81
Long Name:	Cardiopulmonary Bypass Time	SeqNo:	2400
Short Name:	PerfusTm	Core:	Yes
Section Name:	Operative	Harvest:	Yes

DBTableName AdultData

Definition: Indicate the total number of minutes that systemic return is diverted into the cardiopulmonary bypass (CPB) circuit and returned to the systemic system. This time period (Cardiopulmonary Bypass Time) includes all periods of cerebral perfusion and sucker bypass. This time period (Cardiopulmonary Bypass Time) excludes any circulatory arrest and modified ultrafiltration periods. If more than one period of CPB is required during the surgical procedure, the sum of all the CPB periods will equal the

total number of CPB minutes.

LowValue: 1	UsualRangeLow: 1		
HighValue: 999	UsualRangeHigh: 300		
Parent Long Name:	CPB Utilization	Format:	Integer
ParentShortName:	CPBUtil	DataLength:	
ParentValue:	= "Combination" or "Full"	Data Source:	User
ParentHarvestCode	s: 2 3		

Long Name: Circu	atory Arrest			SeqNo:	2405
Short Name: CircA	m			Core:	Yes
Section Name: Opera	tive			Harvest:	Yes
DBTableName Adul	tData				
Definition: Indicate	whether or not circulatory arrest	was utilized du	uring the procedure.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:		Format:	Text (categorical values	s specified by	STS)
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentHarvestCodes:					
Harvest Codes					
Code	<u>Value:</u>				
1	Yes				
2	No				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Circulatory Arrest Time Without	t Cerebral Perfusion		SeqNo:	2410
Short Name: DHCATm			Core:	Yes
Section Name: Operative			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate the total number of minute perfusion. If more than one period the sum of these periods is equal to	of circulatory arrest	is required during	this surgical proced	ure,
LowValue: 0 UsualRangeLow:				
HighValue: 300 UsualRangeHigh:				
Parent Long Name: Circulatory Arrest	Format:	Integer		
ParentShortName: CircArr	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Section Name: Operative DBTableName AdultData	with corobrol portion	ion was porformed	Harvest:	Yes
<i>Definition:</i> Indicate whether circulatory arrest	with cerebral perfus	ion was performed	l.	
LowValue: UsualRangeLow:				
HighValue:UsualRangeHigh:Parent Long Name:Circulatory Arrest	Format:	Text (ontegorical	l values specified by	(9T9)
ParentShortName: CircArr		Text (categorical	i values specified by	515)
ParentValue: = "Yes"	DataLength: Data Source:	User		
ParentHarvestCodes: 1	Duiu Source.	0301		
Harvest Codes:				
<u>Code:</u> <u>Value:</u>				
1 Yes				
2 No				

STS Adult Cardiac Su	urgery Database			Version	: 2.81
Long Name: Cere	ebral Perfusion Time		S	eqNo:	2420
Short Name: CPe	rfTime			Core:	Yes
Section Name: Open	rative		На	rvest:	Yes
DBTableName Adu	ıltData				
	te the total number of minutes cer ade and/or retrograde cerebral per			nclude	
LowValue: 1	UsualRangeLow:				
HighValue: 999	UsualRangeHigh:				
Parent Long Name:	Circulatory Arrest With Cerebral Perfusion	Format:	Integer		
ParentShortName:	CPerfUtil	DataLength:			
ParentValue:	= "Yes"	Data Source:	User		
ParentHarvestCode.	s: 1				
Section Name: Oper DBTableName Adu		red	На	Core: rvest:	Yes Yes
		Jou.			
LowValue: HighValue:	UsualRangeLow: UsualRangeHigh:				
	Circulatory Arrest With Cerebral Perfusion	Format:	Text (categorical values spe	cified by S	STS)
ParentShortName:	CPerfUtil	DataLength:			
ParentValue:	= "Yes"	Data Source:	User		
ParentHarvestCode.	s: 1				
Harvest Code	'S:				
	e: Value:				
Cod	1 Antegrade				
Cod					

STS Adult Cardiac Surgery Database			Version: 2.8	
Long Name: Total Circulatory Arrest Time		Sec	SeqNo: 2	
Short Name: TotCircArrTm		(Core:	Ye
Section Name: Operative		Harv	est:	Ye
DBTableName AdultData				
Definition: Calculated variable measuring circular perfusion time.	tory arrest withou	t cerebral perfusion time plus a	iny cere	bral
LowValue: 0 UsualRangeLow:				
HighValue: 1299 UsualRangeHigh:				
Parent Long Name: Circulatory Arrest	Format:	Integer		
ParentShortName: CircArr	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	Calculated		
ParentHarvestCodes: 1				
				0.40
Long Name: Aortic Occlusion			qNo:	243
Short Name: AortOccl		(Harv	Core:	Ye Ye
Section Name: Operative		пит	est.	10
DBTableName AdultData	· 1			
<i>Definition:</i> Indicate the technique of aortic occlus	sion used.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:	Format:	T	C . 11.	ara)
Parent Long Name:		Text (categorical values speci	nea by	515)
ParentShortName:	DataLength:	TT		
ParentValue: ParentHarvestCodes:	Data Source:	User		
Harvest Codes:				
Code: Value:				
5 None - beating heart				
6 None - fibrillating heart				
2 Aortic Crossclamp				
3 Balloon Occlusion				

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Cross Clamp Time (min)	SeqNo: 243
Short Name: XClampTm	Core: Ye
Section Name: Operative	Harvest: Ye
DBTableName AdultData	
	utes that the coronary circulation is mechanically isolated from n aortic cross clamp or systemic circulatory arrest.
LowValue: 0 UsualRangeLow: 0	
HighValue: 600 UsualRangeHigh: 1	80
Parent Long Name: Aortic Occlusion	Format: Integer
ParentShortName: AortOccl	DataLength:
ParentValue: = "Aortic Crossclamp" of "Balloon Occlusion"	r Data Source: User
ParentHarvestCodes: 2 3	
Long Name: Cardioplegia Delivery	SeqNo: 244
Short Name: CplegiaDeliv	Core: Ye
Section Name: Operative	Harvest: Ye
DBTableName AdultData	
<i>Definition:</i> Indicate the delivery method of	cardioplegia if used.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Harvest Codes:	
Code: Value:	
1 None	
2 Antegrade	
3 Retrograde	
4 Both	

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Cardioplegia Type			SeqNo:	2445
Short Name: CplegiaType			Core:	Yes
Section Name: Operative			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the type of cardioplegia used.				
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Cardioplegia Delivery	Format:	Text (categorical values	s specified by	STS)
ParentShortName: CplegiaDeliv	DataLength:			
<i>ParentValue:</i> = "Antegrade", "Retrograde" or "Both"	Data Source:	User		
ParentHarvestCodes: 2 3 4				
Harvest Codes:				
Code: Value:				
1 Blood				
2 Crystalloid				
3 Both				
4 Other				
Long Name: Cerebral Oximetry Used			SeqNo:	2450
Short Name: CerOxUsed			Core:	Yes
Section Name: Operative			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether cerebral oximetry was	used.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name:	Format:	Text (categorical values	s specified by	STS)
ParentShortName:	DataLength:			
ParentValue:	Data Source:	User		
ParentHarvestCodes:				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

TS Adult Cardiac Surgery Database			.81
Long Name: Pre-Induction Baseline Regional O	xygen Saturation - Left	SeqNo: 24	45:
Short Name: PreRSO2Lft		Core:	N
Section Name: Operative		Harvest:	N
DBTableName AdultData			
Definition: Indicate the percent baseline left cere of the operation, when the patient is a supplemental oxygen at the time mea the cerebral oximeter will automatica case.	wake and functional. Patient can be surement is taken. In the absence of	be sedated or on of a user-specified baselin	-
LowValue: 1 UsualRangeLow:			
HighValue: 99 UsualRangeHigh:			
Parent Long Name: Cerebral Oximetry Used	Format: Integer		
ParentShortName: CerOxUsed	DataLength:		
ParentValue: = "Yes"	Data Source: User		
ParentHarvestCodes: 1	aven Saturation - Right	SeaNo: 2	460
Long Name: Pre-Induction Baseline Regional O Short Name: PreRSO2Rt Section Name: Operative	bxygen Saturation - Right	SeqNo: 2. Core: Harvest:	460 No No
Long Name: Pre-Induction Baseline Regional O Short Name: PreRSO2Rt	rebral regional oxygen saturation (r patient is awake and functional. Pasurement is taken. In the absence of	<i>Core:</i> <i>Harvest:</i> SO2) values at the atient can be sedated or or of a user-specified baselin	No No
Long Name: Pre-Induction Baseline Regional O Short Name: PreRSO2Rt Section Name: Operative DBTableName AdultData Definition: Indicate the percent baseline right cer beginning of the operation, when the supplemental oxygen at the time mea the cerebral oximeter will automatica	rebral regional oxygen saturation (r patient is awake and functional. Pasurement is taken. In the absence of	<i>Core:</i> <i>Harvest:</i> SO2) values at the atient can be sedated or or of a user-specified baselin	No No
Long Name: Pre-Induction Baseline Regional O Short Name: PreRSO2Rt Section Name: Operative DBTableName AdultData Definition: Indicate the percent baseline right cer beginning of the operation, when the supplemental oxygen at the time mea the cerebral oximeter will automatica case.	rebral regional oxygen saturation (r patient is awake and functional. Pasurement is taken. In the absence of	<i>Core:</i> <i>Harvest:</i> SO2) values at the atient can be sedated or or of a user-specified baselin	No No
Long Name: Pre-Induction Baseline Regional O Short Name: PreRSO2Rt Section Name: Operative DBTableName AdultData Definition: Indicate the percent baseline right cer beginning of the operation, when the supplemental oxygen at the time mea the cerebral oximeter will automatica case. LowValue: 1 UsualRangeLow:	rebral regional oxygen saturation (r patient is awake and functional. Pasurement is taken. In the absence of	<i>Core:</i> <i>Harvest:</i> SO2) values at the atient can be sedated or or of a user-specified baselin	N N n
Long Name: Pre-Induction Baseline Regional O Short Name: PreRSO2Rt Section Name: Operative DBTableName AdultData Definition: Indicate the percent baseline right cer beginning of the operation, when the supplemental oxygen at the time mea the cerebral oximeter will automatica case. LowValue: 1 UsualRangeLow: HighValue: 99 UsualRangeHigh:	rebral regional oxygen saturation (r patient is awake and functional. Pa surement is taken. In the absence of lly select a baseline value from the	<i>Core:</i> <i>Harvest:</i> SO2) values at the atient can be sedated or or of a user-specified baselin	N N
Long Name: Pre-Induction Baseline Regional O Short Name: PreRSO2Rt Section Name: Operative DBTableName AdultData Definition: Indicate the percent baseline right cer beginning of the operation, when the supplemental oxygen at the time mea the cerebral oximeter will automatica case. LowValue: 1 UsualRangeLow: HighValue: 99 UsualRangeHigh: Parent Long Name: Cerebral Oximetry Used	rebral regional oxygen saturation (r patient is awake and functional. Pa surement is taken. In the absence of lly select a baseline value from the <i>Format:</i> Integer	<i>Core:</i> <i>Harvest:</i> SO2) values at the atient can be sedated or or of a user-specified baselin	N N

Short Name: CurrulSatLft Core: N Section Name: Operative Harvest: N DBTableName AdultData Definition: Indicate the cumulative integral of time and depth of desaturation events below the threshold of 75% of the baseline rSO2 value (relative decline of 25% below baseline) for the left rSO2. Calculated by the cerebral oximeter by multiplying the difference between the threshold and curren rSO2 values times the duration that rSO2 is below the threshold. Values are accumulated throughout the operation. Units are minute-%. This is also called area under the curve (AUC). LowValue: 0 UsualRangeLow: HighValue: 9999 UsualRangeHigh: ParentLong Name: CereOxUsed DataLength: ParentValue: = "Yes" Data Source: User ParentHarvestCodes: 1	STS Adult Ca	rdiac Surgery Database		Versio	n: 2.81
Section Name: Operative Harvest: N DBTableName AdultData Definition: Indicate the cumulative integral of time and depth of desaturation events below the threshold of 75% of the baseline rSO2 value (relative decline of 25% below baseline) for the left rSO2. Calculated by the cerebral oximeter by multiplying the difference between the threshold and current rSO2 values times the duration that rSO2 is below the threshold. Values are accumulated throughout the operation. Units are minute-%. This is also called area under the curve (AUC). LowValue: 0 UsualRangeLow: HighValue: 9999 UsualRangeHigh: Parent Long Name: Cerbral Oximetry Used Format: ParentShortName: CerOxUsed DataLength: ParentValue: = "Yes" Data Source: User ParentHarvestCodes: 1 Long Name: CumulSatRt Core: N Definition: Indicate the cumulative integral of time and depth of desaturation events below the threshold of 75% of the baseline rSO2 value (relative decline of 25% below baseline) for the right rSO2. Calculated by the cerebral oximeter by multiplying the difference between the threshold or 75% of the baseline rSO2 value (relative decline of 25% below baseline) for the right rSO2. Calculated by the cerebral oximeter by multiplying the difference between the threshold and current rSO2 value times the duration that rSO2 is below the threshold and current rSO2 values times the duration that rSO2 is below t	Long Name:	Cumulative Saturation Below Thresho	old - Left	SeqNo:	2465
DBTableName AdultData Definition: Indicate the cumulative integral of time and depth of desaturation events below the threshold of 75% of the baseline rSO2 value (relative decline of 25% below baseline) for the left rSO2. Calculated by the cerebral oximeter by multiplying the difference between the threshold and curren rSO2 values times the duration that rSO2 is below the threshold. Values are accumulated throughout the operation. Units are minute-%. This is also called area under the curve (AUC). LowValue: 0 UsualRangeLow: HighValue: 9999 UsualRangeHigh: Parent Long Name: Cerebral Oximetry Used Format: ParentValue: = "Yes" Data Source: User ParentValue: = "Yes" Data Source: Viser Short Name: Cumulative Saturation Below Threshold - Right SeqNo: 24' Short Name: CumulSatRt Core: N DBTableName AdultData Definition: Indicate the cumulative integral of time and depth of desaturation events below the threshold of 75% of the baseline rSO2 value (relative decline of 25% below baseline) for the right rSO2. Calculated by the cerebral oximeter by multiplying the difference between the threshold and curren rSO2 values times the duration that rSO2 is below the threshold. Values are accumulated throughout the operation. Units are minute-%. This is also called area under the curve (AUC). LowValue: 0	Short Name:	CumulSatLft		Core:	No
Definition: Indicate the cumulative integral of time and depth of desaturation events below the threshold of 75% of the baseline rSO2 value (relative decline of 25% below baseline) for the left rSO2. Calculated by the cerebral oximeter by multiplying the difference between the threshold and curren rSO2 values times the duration that rSO2 is below the threshold. Values are accumulated throughout the operation. Units are minute-%. This is also called area under the curve (AUC). LowValue: 0 UsualRangeLow: HighValue: 999 UsualRangeHigh: Parent Long Name: Cerebral Oximetry Used Format: ParentValue: = "Yes" Data Source: User ParentHarvestCodes: 1 SeqNo: 24 Short Name: CumulSatRt Core: N Definition: Indicate the cumulative integral of time and depth of desaturation events below the threshold of 75% of the baseline rSO2 value (relative decline of 25% below baseline) for the right rSO2. Calculated by the cerebral oximeter by multiplying the difference between the threshold and curren rSO2 values times the duration that rSO2 is below the threshold. Values are accumulated throughout the operation. Units are minute-%. This is also called area under the curve (AUC). Long Name: Outsulf regral of time and depth of desaturation events below the threshold of 75% of the baseline rSO2 value (relative decline of 25% below baseline) for the right rSO2. Calculated by the cerebral oximeter by multiplying the difference between the threshold and curren rSO2 val	Section Nam	e: Operative		Harvest:	No
75% of the baseline rSO2 value (relative decline of 25% below baseline) for the left rSO2. Calculated by the cerebral oximeter by multiplying the difference between the threshold and curren rSO2 values times the duration that rSO2 is below the threshold. Values are accumulated throughout the operation. Units are minute-%. This is also called area under the curve (AUC). LowValue: 0 UsualRangeLow: HighValue: 9999 UsualRangeHigh: Parent Long Name: Cerebral Oximetry Used Format: ParentShortName: CeroXUsed DataLength: ParentValue: = "Yes" Data Source: User ParentHarvestCodes: 1 Core: N DBTableName AdultData Core: N DBTableName AdultData Definition: Indicate the curve (AUC). LowValue: 0 UsualRangeLow: N ParentShortName: CurnulSatRt Core: N DBTableName AdultData Definition: Indicate the cumulative integral of time and depth of desaturation events below the threshold of curve rSO2 values times the duration that rSO2 is below the threshold. Values are accumulated throughout the operation. Units are minute-%. This is also called area under the curve (AUC). LowValue: 0 UsualRangeLow: N </td <td>DBTableNa</td> <td>ne AdultData</td> <td></td> <td></td> <td></td>	DBTableNa	ne AdultData			
HighValue: 9999 UsualRangeHigh: Parent Long Name: Cerebral Oximetry Used Format: Integer ParentShortName: CerOxUsed DataLength: ParentValue: = "Yes" Data Source: User ParentHarvestCodes: 1 Image: Cumulative Saturation Below Threshold - Right SeqNo: 24' Short Name: CumulSatRt Core: M Section Name: Operative Harvest: M DBTableName AdultData Definition: Indicate the cumulative integral of time and depth of desaturation events below the threshold of 75% of the baseline rSO2 value (relative decline of 25% below baseline) for the right rSO2. Calculated by the cerebral oximeter by multiplying the difference between the threshold and curren rSO2 values times the duration that rSO2 is below the threshold. Values are accumulated throughout the operation. Units are minute-%. This is also called area under the curve (AUC). LowValue: 0 UsualRangeLow: HighValue: 9999 UsualRangeHigh: Parent Long Name: CeroSubsed Format: ParentShortName: CeroSubsed DataLength: Parent Long Name: CeroSubsed DataLength: ParentValue: = "Yes" Data Source:	Definition:	75% of the baseline rSO2 value (relative Calculated by the cerebral oximeter by r rSO2 values times the duration that rSO	e decline of 25% below baseline) for the nultiplying the difference between the 2 is below the threshold. Values are ac	ne left rSO2. threshold and c ccumulated	current
Parent Long Name: Cerebral Oximetry Used Format: Integer ParentShortName: CerOxUsed DataLength: ParentValue: = "Yes" Data Source: User ParentHarvestCodes: 1 Long Name: Cumulative Saturation Below Threshold - Right SeqNo: 24 Short Name: CumulSatRt Core: M Section Name: Operative Harvest: M DBTableName AdultData Definition: Indicate the cumulative integral of time and depth of desaturation events below the threshold of 75% of the baseline rSO2 value (relative decline of 25% below baseline) for the right rSO2. Calculated by the cerebral oximeter by multiplying the difference between the threshold and curren rSO2 values times the duration that rSO2 is below the threshold. Values are accumulated throughout the operation. Units are minute-%. This is also called area under the curve (AUC). LowValue: 0 UsualRangeLow: HighValue: 9999 UsualRangeHigh: Parent Long Name: Cerebral Oximetry Used Format: Integer ParentShortName: CerOxUsed DataLength: ParentValue: = "Yes" Data Source: User	LowValue:	0 UsualRangeLow:			
ParentShortName: CerOxUsed DataLength: ParentValue: = "Yes" Data Source: User ParentHarvestCodes: 1 Long Name: Cumulative Saturation Below Threshold - Right SeqNo: 24' Short Name: CumulSatRt Core: M Section Name: Operative Harvest: M DBTableName AdultData Definition: Indicate the cumulative integral of time and depth of desaturation events below the threshold of 75% of the baseline rSO2 value (relative decline of 25% below baseline) for the right rSO2. Calculated by the cerebral oximeter by multiplying the difference between the threshold and curren rSO2 values times the duration that rSO2 is below the threshold. Values are accumulated throughout the operation. Units are minute-%. This is also called area under the curve (AUC). LowValue: 0 UsualRangeLow: HighValue: 9999 UsualRangeHigh: Parent Long Name: CeroXUsed Format: ParentShortName: CeroXUsed DataLength: ParentValue: = "Yes" Data Source:	HighValue:	9999 UsualRangeHigh:			
ParentValue: = "Yes" Data Source: User ParentHarvestCodes: 1 Long Name: Cumulative Saturation Below Threshold - Right SeqNo: 24 Short Name: CumulSatRt Core: N Section Name: Operative Harvest: N DBTableName AdultData Definition: Indicate the cumulative integral of time and depth of desaturation events below the threshold of 75% of the baseline rSO2 value (relative decline of 25% below baseline) for the right rSO2. Calculated by the cerebral oximeter by multiplying the difference between the threshold and curren rSO2 values times the duration that rSO2 is below the threshold. Values are accumulated throughout the operation. Units are minute-%. This is also called area under the curve (AUC). LowValue: 0 UsualRangeLow: HighValue: 9999 UsualRangeHigh: Parent Long Name: Cerebral Oximetry Used Format: ParentShortName: CeroXUsed DataLength: ParentValue: = "Yes" Data Source: User	Parent Long	Name: Cerebral Oximetry Used	Format: Integer		
ParentHarvestCodes: 1 Long Name: Cumulative Saturation Below Threshold - Right SeqNo: 24 Short Name: CumulSatRt Core: N Section Name: Operative Harvest: N DBTableName AdultData DBTableName AdultData Definition: Indicate the cumulative integral of time and depth of desaturation events below the threshold of 75% of the baseline rSO2 value (relative decline of 25% below baseline) for the right rSO2. Calculated by the cerebral oximeter by multiplying the difference between the threshold and current rSO2 values times the duration that rSO2 is below the threshold. Values are accumulated throughout the operation. Units are minute-%. This is also called area under the curve (AUC). LowValue: 0 UsualRangeLow: HighValue: 9999 UsualRangeHigh: Parent Long Name: CeroXUsed Format: Integer ParentShortName: CeroXUsed Data Source: User	ParentShort	Name: CerOxUsed	DataLength:		
Long Name: Cumulative Saturation Below Threshold - Right SeqNo: 247 Short Name: CumulSatRt Core: N Section Name: Operative Harvest: N DBTableName AdultData Harvest: N Definition: Indicate the cumulative integral of time and depth of desaturation events below the threshold of 75% of the baseline rSO2 value (relative decline of 25% below baseline) for the right rSO2. Calculated by the cerebral oximeter by multiplying the difference between the threshold and current rSO2 values times the duration that rSO2 is below the threshold. Values are accumulated throughout the operation. Units are minute-%. This is also called area under the curve (AUC). LowValue: 0 UsualRangeLow: HighValue: 9999 UsualRangeHigh: Parent Long Name: CeroxUsed DataLength: ParentShortName: ceroXUsed DataLength: ParentValue: = "Yes" Data Source: User	ParentValue	: = "Yes"	Data Source: User		
Short Name: CumulSatRt Core: N Section Name: Operative Harvest: N DBTableName AdultData Harvest: N Definition: Indicate the cumulative integral of time and depth of desaturation events below the threshold of 75% of the baseline rSO2 value (relative decline of 25% below baseline) for the right rSO2. Calculated by the cerebral oximeter by multiplying the difference between the threshold and curren rSO2 values times the duration that rSO2 is below the threshold. Values are accumulated throughout the operation. Units are minute-%. This is also called area under the curve (AUC). LowValue: 0 UsualRangeLow: HighValue: 9999 UsualRangeHigh: Parent Long Name: Cerebral Oximetry Used Format: Integer ParentShortName: CerOxUsed DataLength: ParentValue: = "Yes" Data Source: User	Long Name:	Cumulative Saturation Below Thresh	ald - Right	SeaNo	2470
Section Name: Operative Harvest: Marvest:	-		iu Right	-	Nc
DBTableName AdultData Definition: Indicate the cumulative integral of time and depth of desaturation events below the threshold of 75% of the baseline rSO2 value (relative decline of 25% below baseline) for the right rSO2. Calculated by the cerebral oximeter by multiplying the difference between the threshold and curren rSO2 values times the duration that rSO2 is below the threshold. Values are accumulated throughout the operation. Units are minute-%. This is also called area under the curve (AUC). LowValue: 0 UsualRangeLow: HighValue: 9999 UsualRangeHigh: Parent Long Name: CeroSused Format: Integer ParentShortName: CerOxUsed DataLength: Pata Source: User					Nc
Definition:Indicate the cumulative integral of time and depth of desaturation events below the threshold of 75% of the baseline rSO2 value (relative decline of 25% below baseline) for the right rSO2. Calculated by the cerebral oximeter by multiplying the difference between the threshold and curren rSO2 values times the duration that rSO2 is below the threshold. Values are accumulated throughout the operation. Units are minute-%. This is also called area under the curve (AUC).LowValue:0UsualRangeLow: UsualRangeHigh: Parent Long Name:ParentShortName:CerOxUsedFormat: Data Source:ParentValue:= "Yes"Data Source: User		•			
HighValue:9999UsualRangeHigh:Parent Long Name:Cerebral Oximetry UsedFormat:IntegerParentShortName:CerOxUsedDataLength:ParentValue:= "Yes"Data Source:User	Definition:	75% of the baseline rSO2 value (relative Calculated by the cerebral oximeter by r rSO2 values times the duration that rSO	e decline of 25% below baseline) for the nultiplying the difference between the 2 is below the threshold. Values are ac	ne right rSO2. threshold and c ccumulated	current
Parent Long Name:Cerebral Oximetry UsedFormat:IntegerParentShortName:CerOxUsedDataLength:ParentValue:= "Yes"Data Source:User	LowValue:	0 UsualRangeLow:			
ParentShortName:CerOxUsedDataLength:ParentValue:= "Yes"Data Source:User	HighValue:	9999 UsualRangeHigh:			
ParentValue: = "Yes" Data Source: User	Parent Long	Name: Cerebral Oximetry Used	Format: Integer		
	ParentShort	Name: CerOxUsed	DataLength:		
ParentHarvestCodes: 1	ParentValue	: = "Yes"	Data Source: User		
	ParentHarve	estCodes: 1			

Long Name: Cerebral Oximeter Provided The F	irst Indication		SeqNo:	2475
Short Name: COFirstInd			Core:	No
Section Name: Operative		1	Harvest:	No
DBTableName AdultData				
Definition: Indicate whether the cerebral oximeter physiological change in the patient the				
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:				
Parent Long Name: Cerebral Oximetry Used	Format:	Text (categorical values	specified by	STS)
ParentShortName: CerOxUsed	DataLength:			
ParentValue: = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Skin Closure Regional Oxygen Sat	turation - Left		SeqNo:	2480
Short Name: SCRSO2Lft			Core:	No
Section Name: Operative		1	Harvest:	No
DBTableName AdultData				
Definition: Indicate the left cerebral regional oxy closure at the end of the operation. U	-	blood (rSO2) value at the t	ime of skin	
LowValue: 1 UsualRangeLow:				
HighValue: 99 UsualRangeHigh:				
Parent Long Name: Cerebral Oximetry Used	Format:	Integer		
ParentShortName: CerOxUsed	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Skin Closure Regional Oxygen S	Saturation - Right		SeqNo:	248
Short Name: SCRSO2Rt			Core:	N
Section Name: Operative		1	Harvest:	N
DBTableName AdultData				
Definition: Indicate the right cerebral regional closure at the end of the operation.		blood (rSO2) value at the	time of skin	n
LowValue: 1 UsualRangeLow:				
HighValue: 99 UsualRangeHigh:				
Parent Long Name: Cerebral Oximetry Used	Format:	Integer		
ParentShortName: CerOxUsed	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Long Name: Diffuse Aortic Calcification (Por	celain Aorta)		SeqNo:	249
Short Name: ConCalc			Core:	Ye
Section Name: Operative		1	Harvest:	Ye
DBTableName AdultData				
Definition: Indicate whether diffuse or concent Intraoperatively using imaging or p		e aorta was discovered pr	eoperatively	/ or
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name:	Format:	Text (categorical values	specified by	STS)
ParentShortName:	DataLength:			
ParentValue:	Data Source:	User		
ParentHarvestCodes:				
Harvest Codes:				
Harvest Codes: <u>Code:</u> <u>Value:</u>				

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Echo Assessment of Ascending Ao	rta/Arch	SeqNo: 2493
Short Name: AsmtAscAA		<i>Core:</i> Ye
Section Name: Operative		Harvest: Ye
DBTableName AdultData		
Definition: Indicate whether the Ascending Aorta using TEE or epiaortic ultrasound. (N dissection.)		ted for atheroma or plaque during surgery sessment of aneurysmal disease or
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name:	Format:	Text (categorical values specified by STS)
ParentShortName:	DataLength:	
ParentValue:	Data Source:	User
ParentHarvestCodes:		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
3 Not reported		
Long Name: Assessment of Aorta Disease		<i>SeqNo:</i> 2500
Short Name: AsmtAoDx		Core: Ye
Section Name: Operative		Harvest: Ye
DBTableName AdultData		
<i>Definition:</i> Indicate highest grade of atheroma or ultrasound or TEE.	plaque in the asco	ending aorta indicated on epiaortic
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Echo Assessment of Ascending Aorta/Arch	Format:	Text (categorical values specified by STS)
ParentShortName: AsmtAscAA	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
ParentHarvestCodes: 1		
ParentHarvestCodes: 1 Harvest Codes:	nal	
ParentHarvestCodes: 1 Harvest Codes: <u>Code:</u> Value: 1 Normal aorta / No or minim		
ParentHarvestCodes: 1 Harvest Codes:	g	

mm

5 Mobile plaques

6 Not documented

Long Name:	Aortic Condition Altered Plan	SeqNo:	2505
Short Name:	AsmtAPln	Core:	Yes
Section Name:	Operative	Harvest:	Yes

DBTableName AdultData

Definition: Indicate whether aortic assessment changed cannulation strategy or surgical plan.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			
Harvest Codes:			

Code:Value:1Yes

2 No

Long Name:	Intraop Blood Products Refused	SeqNo:	2510
Short Name:	IBldProdRef	Core:	Yes
Section Name:	Operative	Harvest:	Yes
DBTableName	e AdultData		

Definition: Indicate whether the patient or family refused blood products.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			
Harvest Codes:			
Code:	Value:		
1	Yes		
2	No		

STS Adult Cardiac Surgery Database			Versio	1. 2.01
Long Name: Intraop Blood Products			SeqNo:	2515
Short Name: IBldProd			Core:	Yes
Section Name: Operative			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether blood products were Intraoperatively is defined as any bloo			uring the initial su	urgery.
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Intraop Blood Products Refused	Format:	Text (categorical va	lues specified by	STS)
ParentShortName: IBldProdRef	DataLength:			
<i>ParentValue:</i> = "No"	Data Source:	User		
ParentHarvestCodes: 2				
Harvest Codes:				
Harvest Codes: <u>Code:</u> <u>Value:</u>				
Code: Value:				
Code:Value:1Yes	5		SeqNo:	2520
Code:Value:1Yes2No	5		SeqNo: Core:	2520 Yes
Code: Value: 1 Yes 2 No	5		•	
Code: Value: 1 Yes 2 No Long Name: Intraop Blood Products - RBC Units Short Name: IBdRBCU	5		Core:	Yes
Code: Value: 1 Yes 2 No Long Name: Intraop Blood Products - RBC Units Short Name: IBdRBCU Section Name: Operative	l red blood cells t		Core: Harvest: ntraoperatively. D	Yes Yes
Code: Value: 1 Yes 2 No Long Name: Intraop Blood Products - RBC Units Short Name: IBdRBCU Section Name: Operative DBTableName AdultData Definition: Indicate the number of units of packed	l red blood cells t		Core: Harvest: ntraoperatively. D	Yes Yes
Code: Value: 1 Yes 2 No Long Name: Intraop Blood Products - RBC Units Short Name: IBdRBCU Section Name: Operative DBTableName AdultData Definition: Indicate the number of units of packed include autologous, cell-saver, pump-residence	l red blood cells t		Core: Harvest: ntraoperatively. D	Yes Yes
Code: Value: 1 Yes 2 No Long Name: Intraop Blood Products - RBC Units Short Name: IBdRBCU Section Name: Operative DBTableName AdultData Definition: Indicate the number of units of packed include autologous, cell-saver, pump-r LowValue: 0 UsualRangeLow: 0	l red blood cells t		Core: Harvest: ntraoperatively. D	Yes Yes
Code: Value: 1 Yes 2 No Long Name: Intraop Blood Products - RBC Units Short Name: IBdRBCU Section Name: Operative DBTableName AdultData Definition: Indicate the number of units of packed include autologous, cell-saver, pump-r LowValue: 0 UsualRangeLow: 0 HighValue: 99 UsualRangeHigh: 10	red blood cells t residual or chest t	ube recirculated bloo	Core: Harvest: ntraoperatively. D	Yes Yes
Code: Value: 1 Yes 2 No Long Name: Intraop Blood Products - RBC Units Short Name: IBdRBCU Section Name: Operative DBTableName AdultData Definition: Indicate the number of units of packed include autologous, cell-saver, pump-r LowValue: 0 UsualRangeLow: 0 HighValue: 99 UsualRangeHigh: 10 Parent Long Name: Intraop Blood Products 10	l red blood cells t residual or chest t <i>Format:</i>	ube recirculated bloo Integer	Core: Harvest: ntraoperatively. D	Yes Yes

STS Adult Cardiac Surgery Database			Versior	n: 2.81
Long Name: Intraop Blood Products - FFP Units			SeqNo:	2525
Short Name: IBdFFPU			Core:	Yes
Section Name: Operative			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the number of units of fresh f	rozen plasma that we	ere transfused intraop	eratively.	
LowValue: 0 UsualRangeLow: 0				
HighValue: 99 UsualRangeHigh: 10				
Parent Long Name: Intraop Blood Products	Format: In	nteger		
ParentShortName: IBldProd	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source: U	ser		
ParentHarvestCodes: 1				
Long Name: Intraop Blood Products - Platelet U	nita		SeqNo:	2530
° i	lints		-	
Short Name: IBdPlatU Section Name: Operative	lints		Core: Harvest:	Yes
Short Name: IBdPlatU	ints		Core:	Yes
Short Name: IBdPlatU Section Name: Operative		ed intraoperatively.	Core:	Yes
Short Name: IBdPlatU Section Name: Operative DBTableName AdultData	ts that were transfuse se pack may consist	of 4, 6, 8, 10, or any	Core: Harvest:	Yes Yes
Short Name: IBdPlatU Section Name: Operative DBTableName AdultData Definition: Indicate the number of units of platele Count the dose pack as one unit. A do	ts that were transfuse se pack may consist	of 4, 6, 8, 10, or any	Core: Harvest:	Yes Yes
Short Name: IBdPlatU Section Name: Operative DBTableName AdultData Definition: Indicate the number of units of platelee Count the dose pack as one unit. A do platelets obtained. The number of units	ts that were transfuse se pack may consist	of 4, 6, 8, 10, or any	Core: Harvest:	Yes Yes
Short Name: IBdPlatU Section Name: Operative DBTableName AdultData Definition: Indicate the number of units of platele Count the dose pack as one unit. A do platelets obtained. The number of unit LowValue: 0 UsualRangeLow:	ts that were transfuse se pack may consist s coded is not volum	of 4, 6, 8, 10, or any	Core: Harvest:	Yes Yes
Short Name: IBdPlatU Section Name: Operative DBTableName AdultData Definition: Indicate the number of units of platele Count the dose pack as one unit. A do platelets obtained. The number of unit LowValue: 0 UsualRangeLow: HighValue: 99 UsualRangeHigh:	ts that were transfuse se pack may consist s coded is not volum	of 4, 6, 8, 10, or any the dependent.	Core: Harvest:	Yes Yes
Short Name: IBdPlatU Section Name: Operative DBTableName AdultData Definition: Indicate the number of units of platele Count the dose pack as one unit. A do platelets obtained. The number of unit LowValue: 0 UsualRangeLow: HighValue: 99 UsualRangeHigh: Parent Long Name: Intraop Blood Products	ts that were transfuse se pack may consist is coded is not volum <i>Format:</i> In	of 4, 6, 8, 10, or any the dependent.	Core: Harvest:	Yes Yes

STS Adult Cardiac Surgery Database	Versior	า: 2.81
Long Name: Intraop Blood Products - Cryo Units	SeqNo:	2535
Short Name: IBdCryoU	Core:	Yes
Section Name: Operative		Yes
DBTableName AdultData		
Definition:Indicate the number of units of cryoprecipitate that were transfused intraoperationcryo = one unit.The number of units is not volume dependent.	vely. One bag	of
LowValue: 0 UsualRangeLow:		
HighValue: 99 UsualRangeHigh:		
Parent Long Name: Intraop Blood Products Format: Integer		
ParentShortName: IBldProd DataLength:		
ParentValue: = "Yes" Data Source: User		
ParentHarvestCodes: 1		

Long Name: Intraop Blood Products - Factor VIIa	SeqNo:	2540
Short Name: IBdFactorVII	Core:	No
Section Name: Operative	Harvest:	No
DBTableName AdultData		
<i>Definition:</i> Indicate the amount of Factor VIIa that was given intraoperatively. Units are micrograms per kilogram.	neasured in	
LowValue: 0 UsualRangeLow:		
HighValue: 1000 UsualRangeHigh:		
Parent Long Name:Intraop Blood ProductsFormat:Integer		
ParentShortName: IBldProd DataLength:		
ParentValue: = "Yes" Data Source: User		
ParentHarvestCodes: 1		

STS Adult Cardiac Sur	gery Database			Versio	า: 2.81
Long Name: Intrao	p Clotting Factors			SeqNo:	254
Short Name: IntraC	lotFact			Core:	Ye
Section Name: Operat	tive			Harvest:	Ye
DBTableName Adult	Data				
Definition: Indicate	whether clotting factors were a	administered intra	aoperatively.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:		Format:	Text (categorical value	es specified by	STS)
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentHarvestCodes:					
Harvest Codes:					
	Value:				
1	Yes, Factor VIIa				
2	Yes, FEIBA				
3	Yes, Composite				
4	No				
Long Name: Intrao	p Antifibrinolytic Medications	- Epsilon Amino	o-Caproic Acid	SeqNo:	2550
Short Name: IMedl		1	1	Core:	Yes
Section Name: Operat	tive			Harvest:	Yes
DBTableName Adult	Data				
	whether the patient received E	psilon Amino-Ca	aproic Acid in the opera	ting room.	
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:	0 0	Format:	Text (categorical value	es specified by	STS)
I areni Dong Hame.					
ParentShortName:		DataLength:			
-		DataLength: Data Source:	User		
ParentShortName:		Ū.	User		
ParentShortName: ParentValue: ParentHarvestCodes:		Ū.	User		
ParentShortName: ParentValue: ParentHarvestCodes: Harvest Codes:		Ū.	User		
ParentShortName: ParentValue: ParentHarvestCodes: Harvest Codes:	<u>Value:</u> Yes	Ū.	User		

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Intraop Antifibrinolytic Med	ications - Tranexamic Acid SeqNo: 2555
Short Name: IMedTran	Core: Yes
Section Name: Operative	Harvest: Yes
DBTableName AdultData	
Definition: Indicate whether the patient rec	eived Tranexamic Acid in the operating room.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Harvest Codes:	
Code: Value:	
1 Yes	
2 No	
Long Name: Intraop TEE post procedure	SeqNo: 2560
Short Name: InOpTEE	Core: Yes
Section Name: Operative	Harvest: Yes
DBTableName AdultData	
	TEE was performed following procedure.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Harvest Codes:	
Code: Value:	
1 Yes	

STS Adult Cardiac Surgery Database		Version: 2.81	
Long Name:	Post Repair TEE Aortic Insufficiency	SeqNo:	2565
Short Name:	PRepAR	Core:	Yes
Section Name:	Operative	Harvest:	Yes

DBTableName AdultData

Definition: Indicate the highest level of aortic insufficiency/ regurgitation found on post CPB intraop TEE. Mild-to-Moderate should be coded as moderate; moderate to severe should be coded as severe. Amount of AR should be the LAST ASSESSMENT before leaving the operating room. For example: if patient has aortic repair, separates from CPB and finds moderate AR, surgeon goes back on and re-fixes, comes off and finds no AR, it should be recorded as none.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Intraop TEE post procedure	Format:	Text (categorical values specified by STS)
ParentShortName:	InOpTEE	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
	_		

ParentHarvestCodes: 1

Harvest Codes:

Code:	Value:
1	None
2	Trace/trivial
3	Mild
4	Moderate
5	Severe
6	Not reported

STS Adult Cardiac Surgery Database		Version: 2.81	
Long Name:	Post Repair TEE Mitral Insufficiency	SeqNo:	2570
Short Name:	PRepMR	Core:	Yes
Section Name:	Operative	Harvest:	Yes

DBTableName AdultData

Definition: Indicate the highest level of mitral insufficiency/ regurgitation found on post CPB intraop TEE. Mild-to-Moderate should be coded as moderate; moderate to severe should be coded as severe. Amount of MR should be the LAST ASSESSMENT before leaving the operating room. For example: if patient has mitral repair, separates from CPB and finds moderate MR, surgeon goes back on and re-fixes, comes off and finds no MR, it should be recorded as none.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Intraop TEE post procedure	Format:	Text (categorical values specified by STS)
ParentShortName:	InOpTEE	DataLength:	
ParentValue:	= "Yes"	Data Source:	User

ParentHarvestCodes: 1

Harvest Codes:

a Name:	Post R	enair TEE Tricusnid Insufficiency	SeaNo	2575
	6	Not reported		
	5	Severe		
	4	Moderate		
	3	Mild		
	2	Trace/trivial		
	1	None		
	Code:	Value:		

Long Name:	Post Repair TEE Tricuspid Insufficiency	SeqNo:	2575
Short Name:	PRepTR	Core:	Yes
Section Name.	Operative	Harvest:	Yes

DBTableName AdultData

Definition: Indicate the highest level of tricuspid insufficiency/ regurgitation found on post CPB intraop TEE. Mild-to-Moderate should be coded as moderate; moderate to severe should be coded as severe. Amount of TR should be the LAST ASSESSMENT before leaving the operating room.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Intraop TEE post procedure	Format:	Text (categorical values specified by STS)
ParentShortName:	InOpTEE	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCodes	s: 1		
Harvest Code	s:		
Cod	e: <u>Value:</u>		

2	Trace/trivial
-	11400/111/141

3 Mild

1 None

- 4 Moderate
- 5 Severe
- 6 Not reported

Long Name: Post Repair Ejection Fraction		<i>SeqNo:</i> 2580	0
Short Name: PRepEF		Core: Yes	s
Section Name: Operative		Harvest: Yes	s
DBTableName AdultData			
Definition: Indicate the postoperative ejection fract	tion.		
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Intraop TEE post procedure	Format:	Text (categorical values specified by STS)	
ParentShortName: InOpTEE	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Unchanged			
2 Increased			
3 Decreased			
4 Not reported			_

STS Adult Cardiac Surgery Database			Versior	n: 2.81
Long Name: Combined Cardiac Surgery and PCI P	erformed		SeqNo:	2585
Short Name: CombCardPCI			Core:	Yes
Section Name: Operative			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate whether a cardiac surgical proce hospitalization.	edure was perfo	ormed in addition to a PC	CI during this	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name:	Format:	Text (categorical value	s specified by	STS)
ParentShortName:	DataLength:			
ParentValue:	Data Source:	User		
ParentHarvestCodes:				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Combined Cardiac and PCI Procedure	es Performed		SeqNo:	2590
Short Name: CombProcs			Core:	Yes
Section Name: Operative			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate which procedures were perform	ed during this l	nospitalization.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:	_			
Parent Long Name: Combined Cardiac Surgery and PCI Performed	Format:	Text (categorical value	s specified by	STS)
ParentShortName: CombCardPCI	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 PCI + CAB				
2 PCI + Valve				
3 PCI + Aortic				
4 PCI + Other				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Combined Cardiac Surgery and PCI P	Procedure Status	3	SeqNo:	2595
Short Name: CombProcsStatus			Core:	Yes
Section Name: Operative			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the procedures were pe	erformed concur	rently or staged.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Combined Cardiac Surgery and PCI Performed	Format:	Text (categorical value	es specified by	STS)
ParentShortName: CombCardPCI	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Concurrent - same setting				
2 Staged - PCI followed by surgery				
3 Staged - surgery followed by PCI				
Long Name: Combined Cardiac Surgery and PCI P	trocedures		SeqNo:	2600
Short Name: CombProcsPCI	loccules		Core:	Yes
Section Name: Operative			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate the PCI performed.				
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Combined Cardiac Surgery and PCI Performed	Format:	Text (categorical value	es specified by	STS)
ParentShortName: CombCardPCI	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Angioplasty				
2 Stent				
 Stent Angioplasty and stent 				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Combined Cardiac Surgery and PCI	Procedures - Ste	ent Type	SeqNo:	2605
Short Name: CombProcsStentTy			Core:	Yes
Section Name: Operative			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the type of stent deployed dur	ing PCI.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Combined Cardiac Surgery and PCI Procedures	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: CombProcsPCI	DataLength:			
<i>ParentValue:</i> = "Stent" or "Angioplasty and stent"	Data Source:	User		
ParentHarvestCodes: 2 3				
Harvest Codes:				
Code: Value:				
1 Bare metal				
2 Drug-eluting				
3 Bioresorbable				
4 Multiple				
5 Not documented				
Long Name: Hybrid Procedure CAB PCI			SeqNo:	2610
Short Name: CABHybrPCI			Core:	No
Section Name: Coronary Bypass			Harvest:	No
DBTableName AdultData				
Definition: Indicate whether a hybrid coronary sur	gical and interve	entional cardiology proc	cedure was perf	ormed.
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: OpCAB	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Hybrid Status	SeqNo: 2615
Short Name: HybrStat	Core: No
Section Name: Coronary Bypass	Harvest: No
DBTableName AdultData	
Definition: Indicate Status of Hybrid procedure.	
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Hybrid Procedure CAB PCI	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: CABHybrPCI	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes and Value Definitions:	
Code: Value:	Definition:
1 Planned - concurrent	Planned, performed same setting
2 Planned - staged	Planned, performed same hospital admission
3 Unplanned	Unplanned, performed after incomplete revascularization or graft closure during the same hospital admission
Long Name: Hybrid Procedure	SeqNo: 2620
Short Name: HybrProc	Core: No
Section Name: Coronary Bypass	Harvest: No
DBTableName AdultData	
Definition: Indicate PCI Procedure performed.	
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Hybrid Procedure CAB PCI	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: CABHybrPCI	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes:	
Code: Value:	
1 Angioplasty	
2 Stent	

STS Adult Cardiac Surgery Database			Version	n: 2.81
Long Name: Dist Anast - Art #			SeqNo:	2625
Short Name: DistArt			Core:	Yes
Section Name: Coronary Bypass			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate the total number of distal anas artery, etc.	tomoses with art	erial conduits, whe	ether IMA, GEPA, r	adial
LowValue: 0 UsualRangeLow:				
HighValue: 9 UsualRangeHigh:				
Parent Long Name: CAB	Format:	Integer		
ParentShortName: OpCAB	DataLength:			
ParentValue: = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	Data Source:	User		
ParentHarvestCodes: 3 4 5				
Long Name: Dist Anast - Vein #			SeqNo:	2630
Short Name: DistVein			Core:	Yes
Section Name: Coronary Bypass			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the total number of distal anas	tomoses with ver	nous conduits.		
LowValue: 0 UsualRangeLow:				
HighValue: 9 UsualRangeHigh:				
Parent Long Name: CAB	Format:	Integer		
ParentShortName: OpCAB	DataLength:			
ParentValue: = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	Data Source:	User		
ParentHarvestCodes: 3 4 5				

ParentHarvestCodes: 3|4|5

STS Adult Cardiac Surgery Database		Version: 2.8	31
Long Name: Dist Anast - Vein Harvest Technique	e	SeqNo: 26	535
Short Name: DistVeinHTech		Core: Y	Yes
Section Name: Coronary Bypass		Harvest: Y	Yes
DBTableName AdultData			
Definition: Indicate the technique used to harvest t	he vein graft(s).		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Dist Anast - Vein #	Format:	Text (categorical values specified by STS	5)
ParentShortName: DistVein	DataLength:		
<i>ParentValue:</i> > 0	Data Source:	User	
ParentHarvestCodes: > 0			
Harvest Codes:			
Code: Value:			
1 Endoscopic			
2 Direct Vision (open)			
3 Both			
4 Cryopreserved			
Long Name: Saphenous Vein Harvest Time		SeqNo: 26	540
Short Name: SaphHrvstT		Core:	No
Section Name: Coronary Bypass		Harvest:	No
DBTableName AdultData			
Definition: Indicate the total time in minutes for sa	phenous vein ha	rvest.	
LowValue: 1 UsualRangeLow:			
HighValue: 120 UsualRangeHigh:			
Parent Long Name: Dist Anast - Vein Harvest Technique	Format:	Integer	
ParentShortName: DistVeinHTech	DataLength:		
ParentValue: = "Endoscopic", "Direct Vision (open)", or "Both"	Data Source:	User	

ParentHarvestCodes: 1|2|3

STS Adult Cardiac Surgery Database			Versior	า: 2.81
Long Name: Saphenous Vein Preparation Time			SeqNo:	2645
Short Name: SaphPrepT			Core:	No
Section Name: Coronary Bypass			Harvest:	No
DBTableName AdultData				
Definition: Indicate the total amount of vein prepara	ation time (e.g.,	side branch ligation, et	c.) in minutes.	
LowValue: 1 UsualRangeLow:				
HighValue: 60 UsualRangeHigh:				
Parent Long Name: Dist Anast - Vein Harvest Technique	Format:	Integer		
ParentShortName: DistVeinHTech	DataLength:			
ParentValue: = "Endoscopic", "Direct Vision (open)", or "Both"	Data Source:	User		
Long Name: Saphenous Vein Harvest And Prepara	tion Time		SeqNo:	2650
Short Name: SaphHarPrepTm			Core:	Yes
Section Name: Coronary Bypass			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the total time for saphenous vei	n harvest and p	reparation.		
	n harvest and p	reparation.		
Definition: Indicate the total time for saphenous vei	n harvest and p	reparation.		
Definition:Indicate the total time for saphenous veiLowValue:0.00UsualRangeLow:	n harvest and pr <i>Format:</i>	reparation. Real		
Definition:Indicate the total time for saphenous veiLowValue:0.00UsualRangeLow:HighValue:240.00UsualRangeHigh:Parent Long Name:Dist Anast - Vein Harvest	-			
Definition:Indicate the total time for saphenous veiLowValue:0.00UsualRangeLow:HighValue:240.00UsualRangeHigh:Parent Long Name:Dist Anast - Vein Harvest Technique	Format: DataLength:	Real		

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: IMA Artery Used		<i>SeqNo:</i> 2655
Short Name: IMAArtUs		Core: Yes
Section Name: Coronary Bypass		Harvest: Yes
DBTableName AdultData		
Definition: Indicate which, if any, Internal Mamma	ry Artery (ies) (IMA) were used for grafts.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB	Format:	Text (categorical values specified by STS)
ParentShortName: OpCAB	DataLength:	
ParentValue: = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	Data Source:	User
ParentHarvestCodes: 3 4 5		
Harvest Codes:		
Code: Value:		
1 Left IMA		
2 Right IMA		
3 Both IMAs		
4 No IMA		
Long Name: Reason for No IMA		SeqNo: 2660
Short Name: NoIMARsn		Core: Yes
Section Name: Coronary Bypass		Harvest: Yes
DBTableName AdultData		
Definition: Indicate PRIMARY reason Internal Ma	mmary artery w	as not used as documented in medical record.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: IMA Artery Used	Format:	Text (categorical values specified by STS)
ParentShortName: IMAArtUs	DataLength:	
ParentValue: = "No IMA"	Data Source:	User
ParentHarvestCodes: 4		
Harvest Codes and Value Definitions:		
Code: Value:	Definition:	
2 Subclavian stenosis		
3 Previous cardiac or thoracic surgery		
4 Previous mediastinal radiation		

5 Emergent or	salvage	
procedure		
6 No LAD dise	ase Includes L.	AD with no bypassable disease.
7 Other		
Long Name: IMA Dist Anast #		<i>SeqNo:</i> 2665
Short Name: NumIMADA		Core: Yes
Section Name: Coronary Bypass		Harvest: Yes
DBTableName AdultData		
Definition: Indicate the total number	er of distal anastomoses done us	sing IMA grafts.
LowValue: 0 UsualRangeL	low:	
HighValue: 6 UsualRangeH	High:	
Parent Long Name: IMA Artery Us	ed Format:	Integer
ParentShortName: IMAArtUs	DataLength:	
ParentValue: = "Left IMA", " "Both IMAs"	Right IMA" or Data Source:	User
ParentHarvestCodes: 1 2 3		

Long Name: IMA Harvest Technique		<i>SeqNo:</i> 2670
Short Name: IMATechn		Core: Yes
Section Name: Coronary Bypass		Harvest: Yes
DBTableName AdultData		
Definition: Indicate the technique of IMA harvest.		
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: IMA Artery Used	Format:	Text (categorical values specified by STS)
ParentShortName: IMAArtUs	DataLength:	
ParentValue: = "Left IMA", "Right IMA" or "Both IMAs"	Data Source:	User
ParentHarvestCodes: 1 2 3		
Harvest Codes:		
Code: Value:		
2 Direct Vision (open)		
3 Thoracoscopy		
4 Combination		
5 Robotic Assisted		

STS Adult Cardiac Surgery Database	Adult Cardiac Surgery Database		Version: 2.81	
Long Name: Number of Radial Arteries Used			SeqNo:	2675
Short Name: NumRadArtUs			Core:	Yes
Section Name: Coronary Bypass			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the number of radial artery(ies)	that were used	for grafts.		
LowValue: 0 UsualRangeLow:				
HighValue: 2 UsualRangeHigh:				
Parent Long Name: CAB	Format:	Integer		
ParentShortName: OpCAB	DataLength:			
ParentValue: = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	Data Source:	User		
ParentHarvestCodes: 3 4 5				
Long Name: Radial Dist Anast #			SeqNo:	2680
Short Name: NumRadDA			Core:	Yes
Section Name: Coronary Bypass			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the total number of distal anaste	omoses done us	ing radial artery grafts.		
LowValue: 0 UsualRangeLow:				
HighValue: 6 UsualRangeHigh:				
Parent Long Name: Number of Radial Arteries Used	Format:	Integer		
ParentShortName: NumRadArtUs	DataLength:			
<i>ParentValue:</i> > 0	Data Source:	User		
<i>ParentHarvestCodes:</i> > 0				

STS Adult Cardiac Surgery Database		Version: 2.8
Long Name: Radial Dist Anast Harvest Techni	que	SeqNo: 26
Short Name: RadHTech		Core: Y
Section Name: Coronary Bypass		Harvest: Y
DBTableName AdultData		
Definition: Indicate the technique used to harve	st the radial artery(s	5).
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Radial Dist Anast #	Format:	Text (categorical values specified by STS)
ParentShortName: NumRadDA	DataLength:	
<i>ParentValue:</i> > 0	Data Source:	User
ParentHarvestCodes: > 0		
Harvest Codes:		
Code: Value:		
1 Endoscopic		
2 Direct Vision (open)		
3 Both		
Long Name: Radial Artery Harvest Time		SeqNo: 26
Short Name: RadHrvstT		Core: N
Section Name: Coronary Bypass		Harvest: N
DBTableName AdultData		
Definition: Indicate the total time in minutes for	r radial artery harve	sting.
LowValue: 1 UsualRangeLow:		
HighValue: 120 UsualRangeHigh:		
HighValue: 120 UsualRangeHigh: Parent Long Name: Radial Dist Anast #	Format:	Integer
	Format: DataLength:	Integer
Parent Long Name: Radial Dist Anast #		

STS Adult Cardiac Surgery Database			Version	: 2.81
Long Name: Radial Artery Preparation Time			SeqNo:	2695
Short Name: RadPrepT			Core:	No
Section Name: Coronary Bypass			Harvest:	No
DBTableName AdultData				
Definition: Indicate the total amount of artery p	preparation time (e.g	g., side branch ligat	tion, etc.) in minutes.	
LowValue: 1 UsualRangeLow:				
HighValue: 60 UsualRangeHigh:				
Parent Long Name: Radial Dist Anast #	Format:	Integer		
ParentShortName: NumRadDA	DataLength:			
ParentValue: > 0	Data Source:	User		
ParentHarvestCodes: > 0				
Long Name: Radial Artery Harvest and Prepar	ration Time		SeqNo:	2700
Long Name: Radial Artery Harvest and Prepar Short Name: RadHarvPrepTm	ration Time		SeqNo: Core:	2700 Yes
	ration Time		-	
Short Name: RadHarvPrepTm	ration Time		Core:	Yes
Short Name: RadHarvPrepTm Section Name: Coronary Bypass		aration.	Core:	Yes
Short Name: RadHarvPrepTm Section Name: Coronary Bypass DBTableName AdultData		aration.	Core:	Yes
Short Name: RadHarvPrepTm Section Name: Coronary Bypass DBTableName AdultData Definition: Indicate the total time for radial arte		aration.	Core:	Yes
Short Name:RadHarvPrepTmSection Name:Coronary BypassDBTableNameAdultDataDefinition:Indicate the total time for radial arteLowValue:0.00UsualRangeLow:		aration. Real	Core:	Yes
Short Name:RadHarvPrepTmSection Name:Coronary BypassDBTableNameAdultDataDefinition:Indicate the total time for radial artsLowValue:0.00UsualRangeLow:HighValue:240.00UsualRangeHigh:	ery harvest and prep		Core:	Yes
Short Name: RadHarvPrepTm Section Name: Coronary Bypass DBTableName AdultData Definition: Indicate the total time for radial arte LowValue: 0.00 UsualRangeLow: HighValue: 240.00 UsualRangeHigh: Parent Long Name: Radial Dist Anast #	ery harvest and prep <i>Format:</i>	Real	Core:	Yes

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Other Arterial Distal Anastomose	s # SeqNo: 270:
Short Name: NumOArtD	<i>Core:</i> Ye
Section Name: Coronary Bypass	Harvest: Ye
DBTableName AdultData	
Definition: Indicate the number of arterial dista	anastomoses that were used, other than radial or IMA.
LowValue: 0 UsualRangeLow:	
HighValue: 6 UsualRangeHigh:	
Parent Long Name: CAB	Format: Integer
ParentShortName: OpCAB	DataLength:
ParentValue: = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspect disease or anatomy"	Data Source: User
ParentHarvestCodes: 3 4 5	
Long Name: Proximal Technique	SeqNo: 2710
Short Name: ProxTech	Core: Ye
Section Name: Coronary Bypass	Harvest: Ye
DBTableName AdultData	
Definition: Indicate the technique employed for	proximal graft anastomosis.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: CAB	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: OpCAB	DataLength:
ParentValue: = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspect disease or anatomy"	Data Source: User
ParentHarvestCodes: 3 4 5	
Harvest Codes:	
Code: Value:	
1 Single Cross Clamp	
2 Partial Occlusion Clamp	
3 Anastomotic Assist Devi	

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: CAB Native Coronary Disease Locat	tion 01	<i>SeqNo:</i> 2715
Short Name: CABDisLoc01		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
Definition: Indicate the native coronary disease loc	ation.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB	Format:	Text (categorical values specified by STS)
ParentShortName: OpCAB	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Left Main		
2 Proximal LAD		
3 Mid LAD		
4 Distal LAD		
5 Diagonal 1		
6 Diagonal 2		
7 Circumflex		
8 OM 1		
9 OM 2		
10 OM 3		
11 RCA		
12 PDA		
13 PLB		
14 AM branches		
15 Ramus		

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: CAB Highest Percent Stenosis In	Native Vessel 01		SeqNo:	2720
Short Name: CABPctSten01			Core:	No
Section Name: Coronary Bypass			Harvest:	No
DBTableName AdultData				
Definition: Indicate the highest percentage of st	tenosis found in the	native vessel.		
LowValue: 1 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: CAB	Format:	Integer		
ParentShortName: OpCAB	DataLength:			
ParentValue: = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Long Name: CAB Previous Conduit 01			SeqNo:	2725
Short Name: CABPrevCon01			Core:	No
Section Name: Coronary Bypass			Harvest:	No
DBTableName AdultData				
Definition: Indicate presence of coronary artery	v bypass conduit for	this vessel and wheth	er or not it is dis	eased.
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB	Format:	Text (categorical va	lues specified by	STS)
ParentShortName: OpCAB	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Harvest Codes.				
<u>Code:</u> <u>Value:</u>				
Code: Value:				

STS Adult Cardiac Surgery Database	Version: 2	.81
Long Name: CAB Distal Site 01	SeqNo: 2	2730
Short Name: CABDistSite01	Core:	Yes
Section Name: Coronary Bypass	Harvest:	Yes

DBTableName AdultData

Definition: Indicate distal insertion site of bypass.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	CAB	Format:	Text (categorical values specified by STS)
ParentShortName:	OpCAB	DataLength:	
ParentValue:	= "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	Data Source:	User

ParentHarvestCodes: 3|4|5

Code:	Value:	Definition:
15	Left Main	Left Main
5	Prox LAD	Proximal Left Anterior Descending
6	Mid LAD	Middle Left Anterior Descending
7	Distal LAD	Distal Left Anterior Descending
8	Diagonal 1	First Diagonal
9	Diagonal 2	Second Diagonal
16	Diagonal 3	Third Diagonal
17	Circumflex	Circumflex
11	Obtuse Marginal 1	First Obtuse Marginal
12	Obtuse Marginal 2	Second Obtuse Marginal
13	Obtuse Marginal 3	Third Obtuse Marginal
10	Ramus	Ramus Intermedius
1	RCA	Right Coronary Artery
2	Acute Marginal (AM)	Acute Marginal
3	Posterior Descending (PDA)	Posterior Descending Artery
4	Posterolateral (PLB)	Posterolateral Branch
14	Other	Any other site

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: CAB Distal Technique 01		<i>SeqNo:</i> 2735
Short Name: CABDistTech01		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
Definition: Indicate technique used for distal anas	stomosis.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB	Format:	Text (categorical values specified by STS)
ParentShortName: OpCAB	DataLength:	
ParentValue: = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
<u>Code: Value:</u>		
1 Running		
2 Interrupted		
3 Clips		
4 Anastomotic Device		
4 Anastomotic Device		
Long Name: CAB Proximal Site 01		<i>SeqNo:</i> 2740
Short Name: CABProximalSite01		Core: Yes
Section Name: Coronary Bypass		Harvest: Yes
DBTableName AdultData		
Definition: Indicate proximal site of the bypass gr	raft.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB	Format:	Text (categorical values specified by STS)
ParentShortName: OpCAB	DataLength:	
ParentValue: = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	Data Source:	User
ParentHarvestCodes: 3 4 5		
Harvest Codes:		
Code: Value:		
1 In Situ Mammary		
2 Ascending aorta		
3 Descending aorta		
4 Subclavian artery		

- 5 Innominate artery
- 6 T-graft off SVG
- 7 T-graft off Radial
- 8 T-graft off LIMA
 9 T-graft off RIMA
- 10 Natural Y vein graft
- 11 Other

Long Name: CAB Proximal Technique 01			SeqNo:	2745
Short Name: CABProxTech01			Core:	No
Section Name: Coronary Bypass			Harvest:	No
DBTableName AdultData				
Definition: Indicate technique used for proximal ana	stomosis.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB	Format:	Text (categorical value	s specified by	STS)
ParentShortName: OpCAB	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
5 In Situ Mammary				
1 Running				
2 Interrupted				
3 Anastomotic Device				
4 Anastomotic Assist Device				

STS Adult Card	diac Surgery Database	Version	n: 2.81
Long Name:	CAB Conduit 01	SeqNo:	2750
Short Name:	CABConduit01	Core:	Yes
Section Name.	: Coronary Bypass	Harvest:	Yes

DBTableName AdultData

Definition: Indicate the conduit type used.

LowValue: HighValue:	UsualRangeLow: UsualRangeHigh:		
Parent Long Name:	CAB	Format:	Text (categorical values specified by STS)
ParentShortName:	OpCAB	DataLength:	
ParentValue:	= "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	Data Source:	User
ParentHarvestCode	<i>s</i> : 3 4 5		
Harvest Code	25:		
Cod	le: Value:		
	1 Vein graft		
	2 In Situ LIMA		
	3 In Situ RIMA		
	4 Free IMA		
	5 Radial artery		
	6 Other arteries, homograft		
	7 Synthetic graft		

STS Adult Cardiac Surgery Database			Versio	n: 2.81	
Long Name: CAB Distal	Position 01			SeqNo:	2755
Short Name: CABDistPo	s01			Core:	Ye
Section Name: Coronary B	ypass			Harvest:	Ye
DBTableName AdultData					
Definition: Indicate anasto	omotic position.				
LowValue: Usu	alRangeLow:				
HighValue: Usu	alRangeHigh:				
Parent Long Name: CAB		Format:	Text (categorical value	s specified by	STS)
ParentShortName: OpCA	В	DataLength:			
unplan compli unplan	, planned", "Yes, ned due to surgical cation" or "Yes, ned due to unsuspected or anatomy"	Data Source:	User		
ParentHarvestCodes: 3 4 5					
Harvest Codes:					
Code: Val	ue:				
1 End	to side				
2 Seq	uential (side to side)				
Long Name: CAB Endar	terectomy 01			SeqNo:	2760
Short Name: CABEndAr	t01			Core:	Ye
Section Name: Coronary B	ypass			Harvest:	Yes
DBTableName AdultData					
Definition: Indicate wheth	er endarterectomy was pe	erformed.			
LowValue: Usu	alRangeLow:				
HighValue: Usu	alRangeHigh:				
Parent Long Name: CAB		Format:	Text (categorical value	s specified by	STS)
ParentShortName: OpCA	В	DataLength:			
unplan compli unplan	, planned", "Yes, ned due to surgical cation" or "Yes, ned due to unsuspected or anatomy"	Data Source:	User		
ParentHarvestCodes: 3 4 5					
Harvest Codes:					
Code: Val	ue:				
1 Yes					

STS Adult Cardiac S	urgery Database			Versio	n: 2.81
Long Name: CA	B Hybrid PCI 01			SeqNo:	2765
Short Name: CA	BHyPCI01			Core:	No
Section Name: Core	onary Bypass			Harvest:	Nc
DBTableName Ad	ultData				
	te whether hybrid PCI (Percutane netion with this graft.	ous Coronary Ir	ntervention) procedure v	vas performed	in
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:	CAB	Format:	Text (categorical value	es specified by	STS)
ParentShortName:	OpCAB	DataLength:			
ParentValue:	= "Yes"	Data Source:	User		
ParentHarvestCode	s: 1				
Harvest Code	ss.				
	le: Value:				
<u></u>	1 No				
	2 Angioplasty				
	3 Stent				
Long Name: CA	B 02			SeqNo:	2770
Short Name: CA	B02			Core:	Yes
Section Name: Core	onary Bypass			Harvest:	Yes
DBTableName Ad	ultData				
Definition: Indica	te whether a second Coronary Ar	tery Bypass graf	ît was done.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:	CAB	Format:	Text (categorical value	es specified by	STS)
-					
ParentShortName:	OpCAB	DataLength:			
	OpCAB = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	DataLength: Data Source:	User		
ParentShortName:	= "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	Ũ	User		
ParentShortName: ParentValue:	= "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy" s: 3 4 5	Ũ	User		
ParentShortName: ParentValue: ParentHarvestCode Harvest Code	= "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy" s: 3 4 5	Ũ	User		
ParentShortName: ParentValue: ParentHarvestCode Harvest Code	= "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy" <i>s:</i> 3 4 5 es:	Ũ	User		

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: CAB Native Coronary Disease Locat	tion 02	SeqNo: 2775
Short Name: CABDisLoc02		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
Definition: Indicate the native coronary disease loc	ation.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 02	Format:	Text (categorical values specified by STS)
ParentShortName: CAB02	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Left Main		
2 Proximal LAD		
3 Mid LAD		
4 Distal LAD		
5 Diagonal 1		
6 Diagonal 2		
7 Circumflex		
8 OM 1		
9 OM 2		
10 OM 3		
11 RCA		
12 PDA		
13 PLB		
14 AM branches		
15 Ramus		

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: CAB Highest Percent Stenosis In	Native Vessel 02		SeqNo:	2780
Short Name: CABPctSten02			Core:	No
Section Name: Coronary Bypass			Harvest:	No
DBTableName AdultData				
Definition: Indicate the highest percentage of s	tenosis found in the	native vessel.		
LowValue: 1 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: CAB 02	Format:	Integer		
ParentShortName: CAB02	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Long Name: CAB Previous Conduit 02			SeqNo:	2785
Short Name: CABPrevCon02			Core:	No
Section Name: Coronary Bypass			Harvest:	No
DBTableName AdultData				
Definition: Indicate presence of coronary artery	y bypass conduit for	this vessel and wheth	er or not it is dis	eased.
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB 02	Format:	Text (categorical val	lues specified by	STS)
ParentShortName: CAB02	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Cadar Valuer				
<u>Code:</u> <u>Value:</u>				
1 Yes - Diseased				

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: CAB Distal Site 02	<i>SeqNo:</i> 2790
Short Name: CABDistSite02	Core: Yes
Section Name: Coronary Bypass	Harvest: Yes
DBTableName AdultData	

LowValue: HighValue:	UsualRangeLow: UsualRangeHigh:		
Parent Long Name:	0 0	Format:	Text (categorical values specified by STS)
ParentShortName:	CAB02	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCodes	s: 1		

Code:	Value:	Definition:
15	Left Main	Left Main
5	Prox LAD	Proximal Left Anterior Descending
6	Mid LAD	Middle Left Anterior Descending
7	Distal LAD	Distal Left Anterior Descending
8	Diagonal 1	First Diagonal
9	Diagonal 2	Second Diagonal
16	Diagonal 3	Third Diagonal
17	Circumflex	Circumflex
11	Obtuse Marginal 1	First Obtuse Marginal
12	Obtuse Marginal 2	Second Obtuse Marginal
13	Obtuse Marginal 3	Third Obtuse Marginal
10	Ramus	Ramus Intermedius
1	RCA	Right Coronary Artery
2	Acute Marginal (AM)	Acute Marginal
3	Posterior Descending (PDA)	Posterior Descending Artery
4	Posterolateral (PLB)	Posterolateral Branch
14	Other	Any other site

Long Name: CAB Distal Technique 02 SeqNo: 2795 Short Name: CABDistTech02 Core: No Section Name: Coronary Bypass Harvest: No DBTableName AdultData Definition: Indicate technique used for distal anastomosis. Intervention of the section of the sectin therese Codes: Section of the	STS Adult Cardiac Surgery Database		Version: 2.81
Section Name: Coronary Bypass Harvest No DBTableName AduitData Definition: Indicate technique used for distal anastomosis. LowValue: UsualRangeIow: HighValue: UsualRangeIigh: Parent Long Name: CAB 02 Pormat: Text (ategorical values specified by STS) ParentNomm: CAB02 DataLength: ParentValue: = "Yes" Data Source: User ParentValue: I Running 2 Interrupted 3 Clips 4 Naastomotic Device Long Name: CAB Proximal Site 02 SeqNo: 2800 Short Name: CAB Proximal Site 02 Core: Yes Section Name: CABProximal Site 02 Core: Yes DBTableName AduitDat Definition: Indicate proximal Site 02 Core: Yes DBTableName AduitDat Definition: Indicate proximal Site of the bypass graft. LowValue: UsualRangeIigh: Parent Long Name: CAB 02 Format: Text (categorical values specified by STS) ParentName: CAB 02 Interrupted Stort Name: CABProximal Site 02 SeqNo: 2800 Short Name: CABProximal Site 02 Format: Text (categorical values specified by STS) ParentValue: UsualRangeIigh: Parent Long Name: CAB 02 Format: Text (categorical values specified by STS) ParentValue: UsualRangeIigh: Parent Value: SualRangeIigh: Parent Value: SualRangeIigh: ParentValue: Sublavia antery 2 Ascending aorta 3 Descending aorta 4 Subclavian antery 5 Innominate artery 6 T-graft off SVG	Long Name: CAB Distal Technique 02		SeqNo: 2795
DBTableName AdultData Definition: Indicate technique used for distal anastomosis. LowValue: UsualRangeLow: HigkValue: UsualRangeHigh: Parent Long Name: CAB 02 Format: Text (categorical values specified by STS) ParentValue:	Short Name: CABDistTech02		Core: No
Definition:Indicate technique used for distal anastomosis.LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:CAB 02Format:Text (categorical values specified by STS)ParentShoriName:CAB02Datal ength:ParentValue:"Yes"Data Source:UserParentValue:"Yes"Data Source:UserParentValue:1Running12Interrupted3Clips3Clips1Anastomotic DeviceLong Name:CAB Proximal Site 02Core:YesSection Name:CABProximal Site 02Core:YesDBTableNameAdultJateCore:YesDefinition:InderseptedSeqNo:SeqNo:Section Name:UsualRangeLow:Harvest:YesDBTableNameAdultJateUsualRangeLow:YesParentSonName:CAB 02Format:Text (categorical values specified by STS)ParentSonName:CAB 02Format:Text (categorical values specified by STS)ParentValue:UsualRangeLow:Text (categorical values specified by STS)ParentValue:= "Yes"Data Source:UserParentValue:= "Yes"Data Source:UserParentValue:= "Yes"Data Source:UserParentValue:= "Yes"Data Source:UserParentValue:= "Yes"Data Source:UserParentValue:= "Yes"Data Source:UserPare	Section Name: Coronary Bypass		Harvest: No
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:CAB 02Pormat:Text (categorical values specified by STS)ParentShortName:CAB02DataLangth:ParentHarvestCodes:IHarvest Code:Value:2Interrupted3Clips4Anastomotic DeviceLong Name:CAB Proximal Site 02Short Name:CaBProximal Site 02Short Name:UsualRangeLow:HighValue:UsualRangeLow:HighValue:UsualRangeLow:HighValue:UsualRangeLow:HighValue:= "Yes"Data Bource:UserParentJonName:CAB02ParentHarvestCodes:IHarvest Codes:IHarvest Codes:IHarvest Codes:IIIn Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	DBTableName AdultData		
HighValue: UsualRangeHigh: Parent Long Name: CAB 02 DataLength: ParentValue: ""Yes" Data Source: User ParentHarvestCodes: I Harvest Codes: Value: 1 Running 2 Interrupted 3 Clips 4 Anastomotic Device Long Name: CAB Proximal Site 02 SeqNo: 2800 Short Name: CAB Proximal Site 04 bypass graft. Low Value: UsualRangeLow: HighValue: UsualRangeLow: HighValue: StauRangeHigh: Parent Long Name: CAB 02 DataLength: Parent Long Name: CAB 02 Prox Parent Parent Value: Value	Definition: Indicate technique used for distal anasto	omosis.	
HighValue:UsualRangeHigh:Formal:Text (categorical values specified by STS)Parent Long Name:CAB 02DataLength:Parent/ShortName: $=$ "Yes"Data Source:UserParent/HarvestCodes:IHarvest Codes:IHarvest Codes:IIRunning2Interrupted3Clips4Anastomotic DeviceShort Name:CAB Pr×tmal Site 02Short Name:CAB Pr×tmal Site 02Short Name:CAB Pr×tmal Site 02Short Name:CAB Pr×tmal Site 01Definition:InterruptedDefinition:InterruptionDefinition:UsualRangeLow:HighValue:UsualRangeLow:HighValue:UsualRangeLow:HighValue:CAB 02Parent/Long Name:CAB 02 <t< td=""><td>LowValue: UsualRangeLow:</td><td></td><td></td></t<>	LowValue: UsualRangeLow:		
ParentShortName: CAB02 DataLength: ParentValue: = "Yes" Data Source: User ParentHarvestCodes: 1 Harvest Codes: Code: Value: 1 Running 2 Interrupted 3 Clips 4 Anastomotic Device Long Name: CAB Proximal Site 02 SeqNo: 2800 Short Name: CABProximal Site 02 Core: Yes Section Name: CABProximal Site 02 Core: Yes Section Name: CABProximal Site 02 Core: Yes Section Name: Coronary Bypass Harvest: Yes DBTableName AdultData Definition: Indicate proximal site of the bypass graft. LowValue: UsualRangeLow: HighValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 02 Format: Text (categorical values specified by STS) ParentShortName: CAB02 DataLength: ParentMature: = "Yes" Data Source: User ParentHarvestCodes: 1 Harvest Codes: 1 Harvest Codes: 1 Harvest Codes: 1 Harvest Codes: 3 Descending aorta 3 Descending aorta 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG	U U		
ParentValue: = "Yes" Data Source: User ParentHarvestCodes: I Harvest Codes: Seconda Seconda Code Value: I I Running Interrupted Seconda 3 Clips Interrupted Seconda 4 Anastomotic Device Seconda Seconda Short Name: CABProximal Site 02 Seconda Seconda Short Name: CABroximal Site02 Seconda Seconda Short Name: Coron: Yes Yes DBTableName AdulData Seconda Yes Definition: Indicate proximal site of the bypass graft. Intervest: Yes DBTableName: CAB 02 Format: Text (categorical values specified by STS) ParentShortName: CAB 02 DataLength: Imagentify State ParentHarvestCodes: I Institu Mammary Seconding aorta Imagentify State ParentHarvestCodes: I In Situ Mammary Subclavian artery Imagentify State Imagentify State I In Situ Mammary Subclav	Parent Long Name: CAB 02	Format:	Text (categorical values specified by STS)
ParentHarvestCodes: I Harvest Codes: <u>Code</u> Value: 1 Running 2 Interrupted 3 Clips 4 Anastomotic Device Long Name: CAB Proximal Site 02 Short Name: CAB Proximal Site 01 the bypass graft. LowValue: UsualRangeLow: HighValue: UsualRangeLow: HighValue: UsualRangeLow: HighValue: UsualRangeLow: HighValue: Short Name: CAB 02 ParentShortName: CAB 02 ParentShortName	ParentShortName: CAB02	DataLength:	
Harvest Codes: Value: 1 Running 2 Interrupted 3 Clips 2 Interrupted 3 Clips 2 2800 Sont Name: CAB Proximal Site 02 SeqNo:: 2800 Short Name: CABProximal Site02 Core:: Yes Definition: Indicate proximal site of the bypass graft. Core:: Yes DBTableName: AultData Harvest:: Yes Definition: Indicate proximal site of the bypass graft. Text (categorical values specified by STS) Parent Long Name: CAB 02 Format:: Text (categorical values specified by STS) ParentShortName: CAB02 DataLength: ParentValue: """"""""""""""""""""""""""""""""""""	<i>ParentValue:</i> = "Yes"	Data Source:	User
Code: Value: 1 Running 2 Interrupted 3 Cips 4 Anastomotic Device Long Name: CAB Proximal Site 02 SeqNo: 2800 Short Name: CABProximalSite02 Core: Yes Section Name: COron: Bypass Yes DBTableName AdultData ParentSingligh: Yes Definition: Indicate proximal site of the bypass graft. LowValue: UsualRangeLow: HighValue: UsualRangeLow: Text (categorical values specified by STS) Parent Long Name: CAB02 DataLength: ParentShortName: CAB02 Data Source: User ParentValue: = "Yes" Data Source: User ParentValue: = "Yes" Data Source: User ParentValue: = Aseending aorta Jeseending aorta Jeseending aorta 4 Subclavian artery Jestel for SVG Jestel for SVG	ParentHarvestCodes: 1		
1 Running 2 Interrupted 3 Clips 4 Anastomotic Device Long Name: CAB Proximal Site 02 SeqNo:: 2800 Short Name: CABProximal Site02 Core: Yes Section Name: COOPATY Bypass Harvest: Yes Definition: Indicate proximal site of the bypass graft. Harvest: Yes LowValue: UsualRangeLow: HighValue: UsualRangeLigh: Yes Parent Long Name: CAB 02 Format: Text (categorical values specified by STS) ParentShortName: CAB02 DataLength: ParentHarvestCodes: 1 Harvest Data Source: User User ParentHarvestCodes: 1 In Situ Mammary Ascending aorta Subclavian artery Subclavian artery Inominate artery Innominate artery <td< td=""><td>Harvest Codes:</td><td></td><td></td></td<>	Harvest Codes:		
1 Running 2 Interrupted 3 Clips 4 Anastomotic Device Long Name: CAB Proximal Site 02 SeqNo:: 2800 Short Name: CABProximal Site02 Core: Yes Section Name: COOPATY Bypass Harvest: Yes Definition: Indicate proximal site of the bypass graft. Harvest: Yes LowValue: UsualRangeLow: HighValue: UsualRangeLigh: Yes Parent Long Name: CAB 02 Format: Text (categorical values specified by STS) ParentShortName: CAB02 DataLength: ParentHarvestCodes: 1 Harvest Data Source: User User ParentHarvestCodes: 1 In Situ Mammary Ascending aorta Subclavian artery Subclavian artery Inominate artery Innominate artery <td< td=""><td></td><td></td><td></td></td<>			
 1 Interrupted Clips A nastomotic Device Long Name: CAB Proximal Site 02 SeqNo:: 2800 Short Name: CABProximalSite02 Core: Yes Section Name: Coronary Bypass Harvest: Yes DBTableName AdultData Definition: Indicate proximal site of the bypass graft. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 02 Format: Text (categorical values specified by STS) ParentShortName: CAB02 DataLength: ParentHarvestCodes: 1 Harvest Codes: I In Situ Mammary A scending aorta Sectioning aorta Subclavian artery Innominate artery Forgaft off SVG			
3 Clips 4 Anastomotic Device Long Name: CAB Proximal Site 02 SeqNo:: 2800 Short Name: CABProximalSite02 Core: Yes Section Name: Coronary Bypass Harvest: Yes DBTableName AdultData Environary Bypass graft. Kerken Stressen St	-		
4 Anastomotic Device SeqN:: 2800 Long Name: CAB Proximal Site 02 Core: Yes Short Name: Coronry Bypass Harvest: Yes DBTableName AdultData Vest Yes Definition: Indicate proximal site of the bypass graft. Vest Yes Low Value: UsualRangeLow: VestaulRangeHigh: VestaulRangeHigh: Parent Long Name: CAB 02 Format: Text (categorical values specified by STS) ParentShortName: CAB02 DataLength: Vestaules Vestaules ParentShortName: CAB02 Data Source: User Vestaules Vestaules ParentHarvestCodes: 1 In Situ Mammary Ascending aorta Vestaulage anta Vestaulage anta Vestaulage anta 1 In Situ Mammary 1 Insitu Mammary Vestaulage anta Vestaulage anta Vestaulage anta Vestaulage anta Vestaulage anta 3 Descending aorta 4 Subclavian artery Vestaulage anta Vestaulage anta Vestaulage anta Vestaulage anta Vestaulage anta Vestaulage anta Vestaulage anta <t< td=""><td>•</td><td></td><td></td></t<>	•		
Short Name: CABProximalSite02 Core: Yes Section Name: Coronary Bypass Harvest: Yes Section Name: Coronary Bypass Harvest: Yes DBTableName AdultData Definition: Indicate proximal site of the bypass graft. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 02 Format: Text (categorical values specified by STS) ParentShortName: CAB02 DataLength: ParentHarvestCodes: 1 Harvest Codes: 1 In Situ Mammary 2 Ascending aorta 3 Descending aorta 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG	•		
Short Name: CABProximalSite02 Core: Yes Section Name: Coronary Bypass Harvest: Yes Section Name: Coronary Bypass Harvest: Yes DBTableName AdultData Definition: Indicate proximal site of the bypass graft. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 02 Format: Text (categorical values specified by STS) ParentShortName: CAB02 DataLength: ParentHarvestCodes: 1 Harvest Codes: 1 In Situ Mammary 2 Ascending aorta 3 Descending aorta 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG			
Section Name: Coronry Bypass Harvest: Yes DBTableName AdultData Definition: Indicate provimal site of the bypass graft. Definition: Indicate provimal site of the bypass graft. Indicate provimal site of the bypass graft. LowValue: UsualRangeLow: Indicate provimal site of the bypass graft. Parent Long Name: CAB 02 Format: Text (categorical values specified by STS) ParentName: CAB 02 DataLength: Indicate provimal size of the bypass graft. ParentName: CAB 02 DataLength: Indicate provimal size of the bypass graft. ParentName: CAB 02 DataLength: Indicate provimal size of the bypass graft. ParentHarvestCodes: 1 Indicate provimal size of the bypass graft. Indicate provimal size of the bypass graft. Harvest Codes: 1 In Situ Mammary Indicate provimal size of the bypass graft. Indicate provimal size of the bypass graft. Image: Subclavian artery Informinate artery Informinate artery Informinate artery Image: Tegraft off SVG Informinate artery Informinate artery Informinate artery	Long Name: CAB Proximal Site 02		<i>SeqNo:</i> 2800
DBTableName AdultData Definition: Indicate proximal site of the bypass graft. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 02 Format: Text (categorical values specified by STS) ParentShortName: CAB02 DataLength: ParentValue: = "Yes" Data Source: User ParentHarvestCodes: 1 Harvest Codes: Code: Value: 1 In Situ Mammary 2 Ascending aorta 3 Descending aorta 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG			
Definition:Indicate root state of the bypass graft.LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:CAB 02ParentShortName:CAB 02ParentValue:= "Yes"Data Length:ParentHarvestCodes:IHarvest Codes:Value:1In Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	Section Name: Coronary Bypass		Harvest: Yes
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:CAB 02Format:ParentShortName:CAB02DataLength:ParentValue:= "Yes"Data Source:UserUserParentHarvestCodes:1Harvest Codes:1In Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	DBTableName AdultData		
HighValue:UsualRangeHigh:Parent Long Name:CAB 02Format:Text (categorical values specified by STS)ParentShortName:CAB02DataLength:ParentValue:= "Yes"Data Source:UserParentHarvestCodes:1Harvest Codes:1IIn Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	Definition: Indicate proximal site of the bypass graf	ft.	
Parent Long Name:CAB 02Format:Text (categorical values specified by STS)ParentShortName:CAB02DataLength:ParentValue:= "Yes"Data Source:UserParentHarvestCodes:1Harvest Codes:1Harvest Code:Value:1In Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	LowValue: UsualRangeLow:		
ParentShortName:CAB02DataLength:ParentValue:= "Yes"Data Source:ParentHarvestCodes:1Harvest Codes:1Code:Value:1In Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	HighValue: UsualRangeHigh:		
ParentValue:= "Yes"Data Source: UserParentHarvestCodes:1Harvest Codes:1Harvest Codes:Value:1In Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	Parent Long Name: CAB 02	Format:	Text (categorical values specified by STS)
ParentHarvestCodes:Harvest Codes:Code:Value:1In Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	ParentShortName: CAB02	DataLength:	
Harvest Codes:Code:Value:1In Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	<i>ParentValue:</i> = "Yes"	Data Source:	User
Code:Value:1In Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	ParentHarvestCodes: 1		
 In Situ Mammary Ascending aorta Descending aorta Subclavian artery Innominate artery T-graft off SVG 	Harvest Codes:		
 Ascending aorta Descending aorta Subclavian artery Innominate artery T-graft off SVG 	Code: Value:		
 3 Descending aorta 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG 	1 In Situ Mammary		
 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG 	2 Ascending aorta		
 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG 	3 Descending aorta		
 5 Innominate artery 6 T-graft off SVG 			
6 T-graft off SVG			
-			
	-		

- 8 T-graft off LIMA
- 9 T-graft off RIMA
- 10 Natural Y vein graft
- 11 Other

Long Name: CAB Proximal Technique 02		SeqNo: 280
Short Name: CABProxTech02		Core: N
Section Name: Coronary Bypass		Harvest: N
DBTableName AdultData		
Definition: Indicate technique used for proximal an	astomosis.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 02	Format:	Text (categorical values specified by STS)
ParentShortName: CAB02	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
5 In Situ Mammary		
1 Running		
2 Interrupted		
3 Anastomotic Device		
4 Anastomotic Assist Device		
Long Name: CAB Conduit 02		SeqNo: 281
Short Name: CABConduit02		<i>Core:</i> Ye
Section Name: Coronary Bypass		Harvest: Ye
DBTableName AdultData		
Definition: Indicate the conduit type used.		
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 02	Format:	Text (categorical values specified by STS)
ParentShortName: CAB02	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Vein graft		

- In Situ LIMA
 In Situ RIMA
- 4 Free IMA
- 5 Radial artery
- 6 Other arteries, homograft
- 7 Synthetic graft

Long Name: CAB Distal Position 02			SeqNo:	2815
Short Name: CABDistPos02			Core: Harvest:	Yes Yes
Section Name: Coronary Bypass			narvesi:	res
DBTableName AdultData				
<i>Definition:</i> Indicate anastomotic position.				
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB 02	Format:	Text (categorical values	s specified by	STS)
ParentShortName: CAB02	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 End to side				
2 Sequential (side to side)				
Long Name: CAB Endarterectomy 02			SeqNo:	2820
Short Name: CABEndArt02			Core:	Yes
Section Name: Coronary Bypass			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether endarterectomy was per	rformed.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB 02	Format:	Text (categorical values	s specified by	STS)
ParentShortName: CAB02	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
<u>Code:</u> <u>Value:</u> 1 Yes				

Long Name: CAB Hybrid PCI 02		SeqNo: 2825
Short Name: CABHyPCI02		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
<i>Definition:</i> Indicate whether hybrid PCI (Percut conjunction with this graft.	aneous Coronary In	tervention) procedure was performed in
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		T. (
Parent Long Name: CAB 02	Format:	Text (categorical values specified by STS)
ParentShortName: CAB02	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 No		
2 Angioplasty		
3 Stent		
		с и розо
Long Name: CAB 03		SeqNo: 2830
Short Name: CAB03 Section Name: Coronary Bypass		<i>Core:</i> Yes <i>Harvest:</i> Yes
		nurvesi. 1 c
DBTableName AdultData		
<i>Definition:</i> Indicate whether a third Coronary A	rtery Bypass graft v	vas done.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 02	Format:	Text (categorical values specified by STS)
ParentShortName: CAB02		
	DataLength:	
<i>ParentValue:</i> = "Yes"	DataLength: Data Source:	User
ParentValue: = "Yes" ParentHarvestCodes: 1		User
		User
ParentHarvestCodes: 1		User
ParentHarvestCodes: 1 Harvest Codes:		User

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: CAB Native Coronary Disease Loca	tion 03	<i>SeqNo:</i> 2835
Short Name: CABDisLoc03		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
Definition: Indicate the native coronary disease loo	cation.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 03	Format:	Text (categorical values specified by STS)
ParentShortName: CAB03	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Left Main		
2 Proximal LAD		
3 Mid LAD		
4 Distal LAD		
5 Diagonal 1		
6 Diagonal 2		
7 Circumflex		
8 OM 1		
9 OM 2		
10 OM 3		
11 RCA		
12 PDA		
13 PLB		
14 AM branches		
15 Ramus		

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: CAB Highest Percent Stenosis In	n Native Vessel 03		SeqNo:	2840
Short Name: CABPctSten03			Core:	N
Section Name: Coronary Bypass			Harvest:	No
DBTableName AdultData				
Definition: Indicate the highest percentage of s	tenosis found in the	native vessel.		
LowValue: 1 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: CAB 03	Format:	Integer		
ParentShortName: CAB03	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Long Name: CAB Previous Conduit 03			SeqNo:	284
Short Name: CABPrevCon03			Core:	No
Section Name: Coronary Bypass			Harvest:	No
DBTableName AdultData				
Definition: Indicate presence of coronary artery	y bypass conduit for	this vessel and whet	her or not it is dis	eased.
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB 03	Format:	Text (categorical va	alues specified by	STS)
ParentShortName: CAB03	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
Code:Value:1Yes - Diseased				

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: CAB Distal Site 03	<i>SeqNo:</i> 2850
Short Name: CABDistSite03	Core: Yes
Section Name: Coronary Bypass	Harvest: Yes
DBTableName AdultData	

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	CAB 03	Format:	Text (categorical values specified by STS)
ParentShortName:	CAB03	DataLength:	
ParentValue:	="Yes"	Data Source:	User
ParentHarvestCodes	: 1		

Code:	Value:	Definition:
15	Left Main	Left Main
5	Prox LAD	Proximal Left Anterior Descending
6	Mid LAD	Middle Left Anterior Descending
7	Distal LAD	Distal Left Anterior Descending
8	Diagonal 1	First Diagonal
9	Diagonal 2	Second Diagonal
16	Diagonal 3	Third Diagonal
17	Circumflex	Circumflex
11	Obtuse Marginal 1	First Obtuse Marginal
12	Obtuse Marginal 2	Second Obtuse Marginal
13	Obtuse Marginal 3	Third Obtuse Marginal
10	Ramus	Ramus Intermedius
1	RCA	Right Coronary Artery
2	Acute Marginal (AM)	Acute Marginal
3	Posterior Descending (PDA)	Posterior Descending Artery
4	Posterolateral (PLB)	Posterolateral Branch
14	Other	Any other site

Long Name: CAB Distal Technique 03 SeqNo: 2855 Short Name: CABDistTech03 Core: No Section Name: Coronary Bypass Harvest: No DBTableName AdultData Definition: Indicate technique used for distal anastomosis. Image: Coronary Bypass Harvest: No Definition: Indicate technique used for distal anastomosis. Image: CABO3 DataLength: ParentShortName: CABO3 DataLength: ParentHarvestCodes: Image: ParentHarvestCodes: Image: ParentHarvestCodes: Image: ParentHarvestCodes: ParentShortName: CABProximalSite 03 Core: Yes Anastomotic Device Interrupted 3 Clips ParentShortName: CABProximalSite 03 Core: Yes DBTableName AdultData Section Name: CABProximalSite 03 Core: Yes DBTableName AdultData Section Name: CABO3 DataLength: ParentLang Name: CABO3 DataLength: P	STS Adult Cardiac Surgery Database		Version: 2.81
Section Name: Coronary Bypass Harvest: No DBTableName AdultData Definition: Indicate technique used for distal anastomosis. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: ParentLong Name: CAB 03 DataLength: ParentName: CAB03 DataLength: ParentValue: = "Yes" Data Source: User ParentMarvestCodes: 1 Harvest Codes: <u>Code: Value:</u> 1 Running 2 Interrupted 3 Clips 4 Anastomotic Device <i>Long Name</i> : CAB Proximal Site 03 SeqNo: 2860 Short Name: CAB Proximal Site 03 SeqNo: 2860 Short Name: CAB Proximal Site 03 Core: Yes <i>BatableName</i> AdultDat <i>Definition</i> : Indicate proximal Site 03 Core: Yes <i>BatableName</i> AdultDat <i>Definition</i> : Indicate proximal Site 04 SeqNo: 2860 Short Name: CAB Proximal Site 03 SeqNo: 2860 Short Name: CAB Proximal Site 03 Format: Text (categorical values specified by STS) <i>ParentName</i> : CAB Proximal Site 04 SeqNo: 2860 Short Name: CABProximal Site 05 SeqNo: 2860 Short Name: CABProximal Site 05 SeqNo: 2860 Short Name: CABProximal Site 07 SeqNo: 2860 Short Name: CABProximal Site o7 SeqNo: 2860 <i>ParentValue</i> : UsualRangeLow: HighValae: UsualRangeLigh: <i>Parent Value</i> : = "Yes" Data Source: User <i>ParentValue</i> : = 1 In Situ Mammary 2 Ascending aorta 3 Descending aorta 3 Descending aorta 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG	Long Name: CAB Distal Technique 03		<i>SeqNo:</i> 285
DBTableName AdultData Definition: Indicate technique used for distal anastomosis. LowValue: UsualRangeLow: HigkValue: UsualRangeHigh: Parent Long Name: CAB03 DataLength: ParentValue: "Pes" Data Source: User ParentValue: 'Pes" Data Source: User ParentValue: 'Pes" Data Source: User ParentValue: 'Interrupted 'SeqNo: '2800 Short Name: CABProximal Site 03 Core: 'Yes DBTableName AdultData SeqNo: 'Zes0 Definition: Indicate proximal site of the bypass graft. LowValue: UsualRangeLow: HigtValue: UsualRangeHigh: Text (categorical values specified by STS) ParentValue: UsualRangeHigh: Text (categorical values specified by STS) ParentValue:	Short Name: CABDistTech03		Core: N
Definition:Indicate technique used for distal anastomosis.LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:CAB 03CAB03DataLength:ParentNorName:CAB03ParentValue:"Yes"Data Source:UserParentValue:"Yes"Data Source:UserParentValue:1HarvestCodes:IHarvest Code:Interrupted3Clips4Anastomotic DeviceLong Name:CAB Proximal Site 03Scetion Name:CAB Proximal Site 03Scetion Name:CAB Proximal Site 03Scetion Name:UsualRangeLow:HighValue:UsualRangeLow:HighValue:UsualRangeLow:ParentSononxUsualRangeLow:HighValue:UsualRangeLow:HighValue:UsualRangeLow:ParentName:CAB OParentName:CAB OParentName:CAB OParentName:CAB OParentValue:"StallUsualRangeLow:Text (categorical values specified by STS)ParentName:CAB OParentValue:"StallUsualRangeLow:Text (categorical values specified by STS)ParentName:CAB OParentValue:"StallUsualRangeLow:Text (categorical values specified by STS)ParentValue:"StallParentValue:"Stall"StallStallParentValue:"Stall'Stall	Section Name: Coronary Bypass		Harvest: N
LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 03 Format: Text (categorical values specified by STS) ParentShortName: CAB03 DataLength: ParentHarvestCodes: I Harvest Code: Value: I Running 2 Interrupted 3 Clips 4 Anastomotic Device Long Name: CAB Proximal Site 03 Core: Yes Section Name: CAB Proximal Site 03 Core: Yes DBTableName AdultData Definition: Indicate proximal site of the bypass graft. LowValue: UsualRangeLow: HighValue: UsualRangeLow: HighValue: UsualRangeLow: HighValue: CAB 03 Format: Text (categorical values specified by STS) ParentShortName: CAB03 DataLength: ParentValue: = "Yes" Data Source: User ParentValue: = "Yes" Data Source: User ParentValue: I In Situ Mammary 2 Aseending aorta 3 Descending aorta 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG	DBTableName AdultData		
HighValue:UsualRangeHigh:Format:Text (categorical values specified by STS)Parent Long Name:CAB 03DataLength:Parent/barvest:= "Yes"Data Source:UserParent/larvest:Coles:IIHarvest:Coles:IIHarvest:Coles:IIIRunningI2InterruptedInterrupted3ClipsInterrupted4Anastomotic DeviceSeqNe:Short Name:CAB Dr>Coles:UsualRangeHigh:DBTableNameAulue:Definition:InterruptedDBTableNameCAB 03DBTableNameCAB 03Definition:InterruptedParentLong Name:CAB 03Definition:UsualRangeLow:HighValue:UsualRangeLow:HighValue:UsualRangeLow:HighValue:UsualRangeLow:HighValue:UsualRangeLow:HighValue:IParentLong Name:CAB 03ParentNarrest:DataLength:ParentNarrest:UsualRangeLow:HighValue:IINistu MammaryParentIarrest:IIIsitu MammaryIIsitu MammaryISeconding aortaISubclavian arteryIIsitu MammaryISubclavian arteryIInnominate arteryIInnominate arteryIInnominate arteryIInnominate arteryI<	Definition: Indicate technique used for distal anasto	mosis.	
Parent Long Name: CAB 03 Format: Text (categorical values specified by STS) ParentShortName: CAB03 DataLength: ParentValue: = "Yes" Data Source: User ParentHarvestCodes: I Iterrupted Iterrupted Iterrupted 3 Clips Anastomotic Device SeqNo: 2860 Short Name: CAB Proximal Site 03 Core: Yes Definition: Indicate proximal Site 03 Core: Yes DBTableName AdultData Core: Yes DBTableName AdultData Core: Yes DBTableName AdultData Core: Yes Definition: Indicate proximal site of the bypass graft. Core: Yes DBTableName CAB 03 Format: Text (categorical values specified by STS) ParentLong Name: CAB 03 DataLength: Format: Text (categorical values specified by STS) ParentLong Name: CAB 03 DataLength: Format: Text (categorical values specified by STS) ParentHarvestCodes: I Hit Hit Hit Indit	LowValue: UsualRangeLow:		
ParentShortName: CAB03 DataLength: ParentValue: = "Yes" Data Source: User ParentHarvestCodes: 1 Harvest Codes: Code: Value: 1 Running 2 Interrupted 3 Clips 4 Anastomotic Device Long Name: CAB Proximal Site 03 SeqNo: 2860 Short Name: CABProximal Site 03 Core: Yes Section Name: CABProximal Site 03 Core: Yes Section Name: CABProximal Site 03 Core: Yes Section Name: Coronary Bypass Harvest: Yes DBTableName AdultData Definition: Indicate proximal site of the bypass graft. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 03 Format: Text (categorical values specified by STS) ParentShortName: CAB03 DataLength: ParentMatree: = "Yes" Data Source: User ParentHarvestCodes: 1 Harvest Codes: 1 Harvest Codes	HighValue: UsualRangeHigh:		
ParentValue: = "Yes" Data Source: User ParentHarvestCodes: - Harvest Codes: - Code: Value: - 1 Running - 2 Interrupted - 3 Clips - 4 Anastomotic Device - Long Name: CAB Proximal Site 03 SeqNo: 2860 Short Name: Coronry Bypass - - - BTableName AdultDat - - - - - - Definition: Indicate proximal site of the bypass graft. -	Parent Long Name: CAB 03	Format:	Text (categorical values specified by STS)
ParentHarvestCodes: I Harvest Codes: Code: Value: 1 Running 2 Interrupted 3 Clips 4 Anastomotic Device Long Name: CAB Proximal Site 03 Short Name: CAB Proximal Site 07 the bypass graft. LowValue: UsualRangeLow: HighValue: UsualRangeLow: HighValue: UsualRangeLow: HighValue: UsualRangeLow: HighValue: UsualRangeLow: HighValue: UsualRangeLow: HighValue: Short Name: CAB 03 ParentShortName: CAB	ParentShortName: CAB03	DataLength:	
Harvest Codes: Value: 1 Running 2 Interrupted 3 Cips 2 Interrupted 3 Cips 2 2860 Sont Name: CAB Proximal Site 03 SeqNo: 2860 2860 Short Name: CABProximal Site 03 Core: Yes Section Name: Coronary Bypass Core: Yes DBTableName AuluData Core: Yes DBTableName: AusalangeLow: Harvest: Yes DBTableName: CAB 03 Format: Text (categorical values specified by STS) Parent Long Name: CAB 03 DataLength: Yes ParentShortName: CAB03 DataLength: Yes ParentValue: = "Yes" Data Source: User ParentHarvestCodes: 1 In Situ Mammary Ascending aorta Subclavian artery Ascending aorta Subclavian artery Innominate artery Innominate artery Innominate artery Innominate artery Innominate artery	<i>ParentValue:</i> = "Yes"	Data Source:	User
Code: Value: 1 Running 2 Interrupted 3 Clips 4 Anastomotic Device Long Name: CAB Proximal Site 03 SeqNo: 2860 Short Name: CABProximalSite03 Core: Yes Section Name: Coronury Bypass Harvest: Yes DBTableName AdultData Harvest: Yes Definition: Indicate proximal site of the bypass graft. Harvest: Yes LowValue: UsualRangeLow: HighValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB03 DataLength: ParentShortName: CAB03 DataLength: ParentValue: = "Yes" Data Source: User Image: Image: Image: ParentValue: = "Yes" Data Source: User Image: Image: <td>ParentHarvestCodes: 1</td> <td></td> <td></td>	ParentHarvestCodes: 1		
Code: Value: 1 Running 2 Interrupted 3 Cips 4 Anastomotic Device 2860 Short Name: CAB Proximal Site 03 Core: Yes Short Name: CABProximalSite03 Core: Yes Definition: Indicate proximal site of the bypass graft. Harvest: Yes DBTableName AdultData Harvest: Yes Definition: Indicate proximal site of the bypass graft. Harvest: Yes LowValue: UsualRangeLow: HighValue: UsualRangeLigh: Yes Parent Long Name: CAB 03 Paratelength: ParentShortName: CAB03 DataLength: ParentShortName: CAB03 Data Source: User User ParentHarvestCodes: 1 In Situ Mammary Ascending aorta Jescending aorta Jescending aorta Jescending aorta 4 Subclavian artery Jescending aorta Jescending aorta Jescending aorta Jescending aorta 6 T-graft off SVG Jescending aorta Jescending aorta Jescending aorta	Harvest Codes:		
1 Running 2 Interrupted 3 Clips 4 Anastomotic Device Long Name: CAB Proximal Site 03 SeqNo:: 2860 Short Name: CABProximal Site03 Core: Yes Section Name: Coronary Bypass Harvest: Yes DBTableName AdultData Ves Ves Definition: Indicate proximal site of the bypass graft. Harvest: Yes LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 03 Format: Text (categorical values specified by STS) ParentShortName: CAB03 DataLength: ParentHarvestCodes: I ParentHarvestCodes: 1 In Situ Mammary Z Ascending aorta Subclavian artery Subclavian artery Innominate art			
 2 Interrupted 3 Clips 4 Anastomotic Device Long Name: CAB Proximal Site 03 SeqNo:: 2860 Short Name: CABProximalSite03 Core: Yes Section Name: Coronary Bypass Harvest: Yes DBTableName AdultData Definition: Indicate proximal site of the bypass graft. LowValue: UsualRangeHigh: Parent Long Name: CAB 03 Format: Text (categorical values specified by STS) ParentShortName: CAB03 DataLength: ParentHarvestCodes: I Harvest Codes: Code: Value: 1 In Situ Mammary 2 Ascending aorta 3 Descending aorta 4 Subclavian artery 5 Innominate attery 6 T-graft off SVG 			
3 Clips 4 Anastomotic Device Long Name: CAB Proximal Site 03 SeqNo:: 2860 Short Name: CABProximalSite03 Core: Yes Section Name: Coronary Bypass Harvest: Yes DBTableName AdultData Environary Bypass graft. Kerkenset: Yes Definition: Indicate proximal site of the bypass graft. Format: Text (categorical values specified by STS) Parent Long Name: CAB 03 DataLength: SeqNo:: Stata Source: User ParentNature: = "Yes" Data Source: User Ser Ser ParentHarvestCodes: 1 In Situ Mammary Ascending aorta Subclavian artery Subclavian artery Subclavian artery Subclavian artery Innominate artery Subclavian	-		
4 Anastomotic Device SeqNo: 2860 Long Name: CAB Proximal Site 03 Core: Yes Short Name: Coronry Bypass Harvest: Yes DBTableName AdultData Parvest: Yes Definition: Indicate proximal site of the bypass graft. Parvest: Yes Low Value: UsualRangeLow: UsualRangeHigh: VestalRangeHigh: Parent Long Name: CAB 03 Format: Text (categorical values specified by STS) ParentShortName: CAB03 DataLength: VestalRangeHigh: ParentHarvestCodes: 1 In Situ Mammary 2 Ascending aorta 1 In Situ Mammary 2 Ascending aorta VestalRangeHigh: 2 Ascending aorta 4 Subclavian artery 5 3 Descending aorta 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG Subschart Subschart Subscharter	•		
Short Name: CABProximalSite03 Core: Yes Section Name: Coronary Bypass Harvest: Yes Section Name: Coronary Bypass Harvest: Yes DBTableName AdultData Definition: Indicate proximal site of the bypass graft. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB03 ParentShortName: CAB03 CAB03 DataLength: ParentNature: = "Yes" Data Source: User ParentHarvestCodes: 1 Harvest Codes: 1 In Situ Mammary 2 Ascending aorta 3 Descending aorta 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG	•		
Short Name: CABProximalSite03 Core: Yes Section Name: Coronary Bypass Harvest: Yes Section Name: Coronary Bypass Harvest: Yes DBTableName AdultData Definition: Indicate proximal site of the bypass graft. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB03 CAB03 DataLength: ParentName: CAB03 Data Source: User ParentHarvestCodes: 1 Harvest Codes: 1 In In Situ Mammary 2 Ascending aorta 3 Descending aorta 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG			
Section Name: Coronum Suppose Harvess: Harvess: Yes DBTableName AdultDust Definition: Indicate provimal site of the bypass graft. LowValue: UsualRangeLow: Harvess: Vestate (adegorical values specified by STS) Parent Long Name: CAB 03 Format: Text (categorical values specified by STS) ParentName: CAB 03 DataLength: DataLength: ParentValue: = "Yes" Data Source: User ParentHarvestCodes: 1 Institu Mammary Value: Vestate 1 In Situ Mammary Ascending aorta Vestate Vestate 2 Ascending aorta Vestate Vestate Vestate 4 Subclavian artery Formatice Formatice Vestate Vestate 6 T-graft off SVG Formatice Formatice <td< td=""><td>Long Name: CAB Proximal Site 03</td><td></td><td><i>SeqNo:</i> 286</td></td<>	Long Name: CAB Proximal Site 03		<i>SeqNo:</i> 286
DBTableName AdultData Definition: Indicate proximal site of the bypass graft. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 03 Format: Text (categorical values specified by STS) ParentShortName: CAB03 DataLength: ParentValue: = "Yes" Data Source: User ParentHarvestCodes: 1 Harvest Codes: Code: Value: 1 In Situ Mammary 2 Ascending aorta 3 Descending aorta 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG			
Definition: Indicate revention of the bypass graft. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 03 CAB03 DataLength: ParentValue: = "Yes" ParentValue: = "Yes" Data Source: User ParentHarvestCodes: I Harvest Codes: Value: 1 In Situ Mammary 2 Ascending aorta 3 Descending aorta 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG	Section Name: Coronary Bypass		Harvest: Ye
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:CAB 03Format:ParentShortName:CAB03DataLength:ParentValue:= "Yes"Data Source:UserUserParentHarvestCodes:1Harvest Codes:1In Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	DBTableName AdultData		
HighValue:UsualRangeHigh:Parent Long Name:CAB 03Format:Text (categorical values specified by STS)ParentShortName:CAB03DataLength:ParentValue:= "Yes"Data Source:UserParentHarvestCodes:1Harvest Codes:1Harvest Codes:2Ascending aorta3Descending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVGInnominate artery1Innominate artery	Definition: Indicate proximal site of the bypass graf	t.	
Parent Long Name:CAB 03Format:Text (categorical values specified by STS)ParentShortName:CAB03DataLength:ParentValue:= "Yes"Data Source:UserParentHarvestCodes:1Harvest Codes:1Harvest Code:Value:1In Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	LowValue: UsualRangeLow:		
ParentShortName:CAB03DataLength:ParentValue:= "Yes"Data Source:UserParentHarvestCodes:1Harvest Codes:-Code:Value:1In Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	HighValue: UsualRangeHigh:		
ParentValue:= "Yes"Data Source: UserParentHarvestCodes:1Harvest Codes:1Harvest Codes:Value:1In Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	Parent Long Name: CAB 03	Format:	Text (categorical values specified by STS)
ParentHarvestCodes:Harvest Codes:Code:Value:1In Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	ParentShortName: CAB03	DataLength:	
Harvest Codes:Code:Value:1In Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	<i>ParentValue:</i> = "Yes"	Data Source:	User
Code:Value:1In Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	ParentHarvestCodes: 1		
 In Situ Mammary Ascending aorta Descending aorta Subclavian artery Innominate artery T-graft off SVG 	Harvest Codes:		
 Ascending aorta Descending aorta Subclavian artery Innominate artery T-graft off SVG 	Code: Value:		
 3 Descending aorta 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG 	1 In Situ Mammary		
 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG 	2 Ascending aorta		
 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG 	-		
 5 Innominate artery 6 T-graft off SVG 			
6 T-graft off SVG			
-	•		

- 8 T-graft off LIMA
- 9 T-graft off RIMA
- 10 Natural Y vein graft
- 11 Other

lo: pre: t:	2865 No No
<i>t</i> :	No
	1.5
ed by S	STS)
<i>'o:</i>	2870
	Yes
t:	Yes
ed by S	STS)
	ed by S lo: ore: st: ed by S

- 3 In Situ RIMA
- 4 Free IMA
- 5 Radial artery
- 6 Other arteries, homograft
- 7 Synthetic graft

Long Name: CAB Distal Position 03			SeqNo:	2875
Short Name: CABDistPos03			Core:	Yes
Section Name: Coronary Bypass			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate anastomotic position.				
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB 03	Format:	Text (categorical values	specified by	STS)
ParentShortName: CAB03	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 End to side				
2 Sequential (side to side)				
Long Name: CAB Endarterectomy 03			SeqNo:	2880
Long Name:CAB Endarterectomy 03Short Name:CABEndArt03			SeqNo: Core:	2880 Yes
			-	
Short Name: CABEndArt03			Core:	Yes
Short Name: CABEndArt03 Section Name: Coronary Bypass	rformed.		Core:	Yes
Short Name:CABEndArt03Section Name:Coronary BypassDBTableNameAdultData	rformed.		Core:	Yes
Short Name:CABEndArt03Section Name:Coronary BypassDBTableNameAdultDataDefinition:Indicate whether endarterectomy was per	rformed.		Core:	Yes
Short Name:CABEndArt03Section Name:Coronary BypassDBTableNameAdultDataDefinition:Indicate whether endarterectomy was perLowValue:UsualRangeLow:	rformed. <i>Format:</i>	Text (categorical values	Core: Harvest:	Yes Yes
Short Name:CABEndArt03Section Name:Coronary BypassDBTableNameAdultDataDefinition:Indicate whether endarterectomy was perLowValue:UsualRangeLow:HighValue:UsualRangeHigh:			Core: Harvest:	Yes Yes
Short Name:CABEndArt03Section Name:Coronary BypassDBTableNameAdultDataDefinition:Indicate whether endarterectomy was perLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:CAB 03	Format:	Text (categorical values	Core: Harvest:	Yes Yes
Short Name:CABEndArt03Section Name:Coronary BypassDBTableNameAdultDataDefinition:Indicate whether endarterectomy was perLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:CAB 03ParentShortName:CAB03	Format: DataLength:	Text (categorical values	Core: Harvest:	Yes Yes
Short Name:CABEndArt03Section Name:Coronary BypassDBTableNameAdultDataDefinition:Indicate whether endarterectomy was perLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:CAB 03ParentShortName:CAB03ParentValue:= "Yes"	Format: DataLength:	Text (categorical values	Core: Harvest:	Yes Yes
Short Name:CABEndArt03Section Name:Coronary BypassDBTableNameAdultDataDefinition:Indicate whether endarterectomy was perLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:CAB 03ParentShortName:CAB03ParentValue:= "Yes"ParentHarvestCodes:1	Format: DataLength:	Text (categorical values	Core: Harvest:	Yes Yes
Short Name:CABEndArt03Section Name:Coronary BypassDBTableNameAdultDataDefinition:Indicate whether endarterectomy was perLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:CAB 03ParentShortName:CAB03ParentValue:= "Yes"ParentHarvestCodes:1Harvest Codes:1	Format: DataLength:	Text (categorical values	Core: Harvest:	Yes Yes

Long Name: CAB Hybrid PCI 03		SeqN	<i>o:</i> 288
Short Name: CABHyPCI03		Со	re: No
Section Name: Coronary Bypass		Harves	t: No
DBTableName AdultData			
<i>Definition:</i> Indicate whether hybrid PCI (Percu conjunction with this graft.	taneous Coronary Ir	tervention) procedure was perfor	med in
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			11 (770)
Parent Long Name: CAB 03	Format:	Text (categorical values specifie	ed by STS)
ParentShortName: CAB03	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 No			
2 Angioplasty			
3 Stent			
		C N	200
Long Name: CAB 04		SeqN	
Short Name: CAB04 Section Name: Coronary Bypass		Co Harves	
		nurves	<i>i</i> . <i>i</i> e
DBTableName AdultData		1	
<i>Definition:</i> Indicate whether a fourth Coronary	Artery Bypass graft	was done.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:	_	_ /	
Parent Long Name: CAB 03	Format:	Text (categorical values specifie	ed by STS)
ParentShortName: CAB03	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: CAB Native Coronary Disease Loca	tion 04	<i>SeqNo:</i> 2895
Short Name: CABDisLoc04		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
Definition: Indicate the native coronary disease loo	cation.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 04	Format:	Text (categorical values specified by STS)
ParentShortName: CAB04	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Left Main		
2 Proximal LAD		
3 Mid LAD		
4 Distal LAD		
5 Diagonal 1		
6 Diagonal 2		
7 Circumflex		
8 OM 1		
9 OM 2		
10 OM 3		
11 RCA		
12 PDA		
13 PLB		
14 AM branches		
15 Ramus		

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: CAB Highest Percent Stenosis In	n Native Vessel 04		SeqNo:	2900
Short Name: CABPctSten04			Core:	No
Section Name: Coronary Bypass			Harvest:	No
DBTableName AdultData				
Definition: Indicate the highest percentage of s	tenosis found in the	e native vessel.		
LowValue: 1 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: CAB 04	Format:	Integer		
ParentShortName: CAB04	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source.	: User		
ParentHarvestCodes: 1				
Long Name: CAB Previous Conduit 04			SeqNo:	290
Short Name: CABPrevCon04			Core:	No
Section Name: Coronary Bypass			Harvest:	No
DBTableName AdultData				
Definition: Indicate presence of coronary artery	y bypass conduit for	r this vessel and whe	ther or not it is dis	eased.
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB 04	Format:	Text (categorical v	alues specified by	STS)
ParentShortName: CAB04	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source.	: User		
ParentHarvestCodes: 1				
Harvest Codes:				
<u>Code:</u> <u>Value:</u>				
<u>Code:</u> <u>Value:</u> 1 Yes - Diseased				

STS Adult Cardiac Surgery Database		Version:	2.81
Long Name:	CAB Distal Site 04	SeqNo:	2910
Short Name:	CABDistSite04	Core:	Yes
Section Name:	Coronary Bypass	Harvest:	Yes
DBTableName	AdultData		

LowValue: HighValue:	UsualRangeLow: UsualRangeHigh:		
Parent Long Name:	CAB 04	Format:	Text (categorical values specified by STS)
ParentShortName:	CAB04	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCodes	: 1		

Code:	Value:	Definition:
15	Left Main	Left Main
5	Prox LAD	Proximal Left Anterior Descending
6	Mid LAD	Middle Left Anterior Descending
7	Distal LAD	Distal Left Anterior Descending
8	Diagonal 1	First Diagonal
9	Diagonal 2	Second Diagonal
16	Diagonal 3	Third Diagonal
17	Circumflex	Circumflex
11	Obtuse Marginal 1	First Obtuse Marginal
12	Obtuse Marginal 2	Second Obtuse Marginal
13	Obtuse Marginal 3	Third Obtuse Marginal
10	Ramus	Ramus Intermedius
1	RCA	Right Coronary Artery
2	Acute Marginal (AM)	Acute Marginal
3	Posterior Descending (PDA)	Posterior Descending Artery
4	Posterolateral (PLB)	Posterolateral Branch
14	Other	Any other site

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: CAB Distal Technique 04		<i>SeqNo:</i> 2915
Short Name: CABDistTech04		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
Definition: Indicate technique used for distal anasto	omosis.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 04	Format:	Text (categorical values specified by STS)
ParentShortName: CAB04	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Running		
2 Interrupted		
3 Clips		
4 Anastomotic Device		
		a
Long Name: CAB Proximal Site 04		<i>SeqNo:</i> 2920
Short Name: CABProximalSite04		Core: Yes
Section Name: Coronary Bypass		Harvest: Yes
DBTableName AdultData	0	
<i>Definition:</i> Indicate proximal site of the bypass grad	ft.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 04	Format:	Text (categorical values specified by STS)
ParentShortName: CAB04	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 In Situ Mammary		
2 Ascending aorta		
3 Descending aorta		
4 Subclavian artery		
5 Innominate artery		
6 T-graft off SVG		
7 T-graft off Radial		

- 8 T-graft off LIMA
- 9 T-graft off RIMA
- 10 Natural Y vein graft
- 11 Other

Long Name: CAB Proximal Technique 04		SeqNo: 292
Short Name: CABProxTech04		Core: N
Section Name: Coronary Bypass		Harvest: N
DBTableName AdultData		
Definition: Indicate technique used for proximal and	astomosis.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 04	Format:	Text (categorical values specified by STS)
ParentShortName: CAB04	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
5 In Situ Mammary		
1 Running		
2 Interrupted		
3 Anastomotic Device		
4 Anastomotic Assist Device		
Long Name: CAB Conduit 04		<i>SeqNo:</i> 293
Short Name: CABConduit04		Core: Ye
Section Name: Coronary Bypass		Harvest: Ye
DBTableName AdultData		
<i>Definition:</i> Indicate the conduit type used.		
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 04	Format:	Text (categorical values specified by STS)
ParentShortName: CAB04	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Vein graft		

- In Situ LIMA
 In Situ RIMA
- 4 Free IMA
- 5 Radial artery
- 6 Other arteries, homograft
- 7 Synthetic graft

Long Name: CAB Distal Position 04		<i>SeqNo:</i> 2935
Short Name: CABDistPos04		<i>Core:</i> Yes
Section Name: Coronary Bypass		Harvest: Yes
DBTableName AdultData		
Definition: Indicate anastomotic position.		
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 04	Format:	Text (categorical values specified by STS)
ParentShortName: CAB04	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 End to side		
2 Sequential (side to side)		
Long Name: CAB Endarterectomy 04		<i>SeqNo:</i> 2940
Long Name:CAB Endarterectomy 04Short Name:CABEndArt04		SeqNo: 2940 Core: Yes
· ·		
Short Name: CABEndArt04		Core: Yes
Short Name: CABEndArt04 Section Name: Coronary Bypass	erformed.	Core: Yes
Short Name: CABEndArt04 Section Name: Coronary Bypass DBTableName AdultData	erformed.	Core: Yes
Short Name: CABEndArt04 Section Name: Coronary Bypass DBTableName AdultData Definition: Indicate whether endarterectomy was p	erformed.	Core: Yes
Short Name:CABEndArt04Section Name:Coronary BypassDBTableNameAdultDataDefinition:Indicate whether endarterectomy was pLowValue:UsualRangeLow:	erformed. Format:	Core: Yes
Short Name:CABEndArt04Section Name:Coronary BypassDBTableNameAdultDataDefinition:Indicate whether endarterectomy was pLowValue:UsualRangeLow:HighValue:UsualRangeHigh:		Core: Yes Harvest: Yes
Short Name:CABEndArt04Section Name:Coronary BypassDBTableNameAdultDataDefinition:Indicate whether endarterectomy was pLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:CAB 04	Format:	Core: Yes Harvest: Yes Text (categorical values specified by STS)
Short Name: CABEndArt04 Section Name: Coronary Bypass DBTableName AdultData Definition: Indicate whether endarterectomy was p LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 04 ParentShortName: CAB04	Format: DataLength:	Core: Yes Harvest: Yes Text (categorical values specified by STS)
Short Name: CABEndArt04 Section Name: Coronary Bypass DBTableName AdultData Definition: Indicate whether endarterectomy was p LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 04 ParentShortName: CAB04 ParentValue: = "Yes"	Format: DataLength:	Core: Yes Harvest: Yes Text (categorical values specified by STS)
Short Name: CABEndArt04 Section Name: Coronary Bypass DBTableName AdultData Definition: Indicate whether endarterectomy was p LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 04 ParentShortName: CAB04 ParentValue: = "Yes" ParentHarvestCodes: 1	Format: DataLength:	Core: Yes Harvest: Yes Text (categorical values specified by STS)
Short Name: CABEndArt04 Section Name: Coronary Bypass DBTableName AdultData Definition: Indicate whether endarterectomy was p LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 04 ParentShortName: CAB04 ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes:	Format: DataLength:	Core: Yes Harvest: Yes Text (categorical values specified by STS)

Long Name: CAB Hybrid PCI 04			SeqNo:	2945
Short Name: CABHyPCI04			Core:	No
Section Name: Coronary Bypass			Harvest:	No
DBTableName AdultData				
<i>Definition:</i> Indicate whether hybrid PCI (Percu conjunction with this graft.	taneous Coronary In	tervention) procedure w	as performed	in
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB 04	Format:	Text (categorical value	s specified by	STS)
ParentShortName: CAB04	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 No				
2 Angioplasty				
3 Stent				
Long Name: CAB 05			SeqNo:	2950
Short Name: CAB05			Core:	Yes
Section Name: Coronary Bypass			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether a fifth Coronary A	Artery Bypass graft w	vas done.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB 04	Format:	Text (categorical value	s specified by	STS)
ParentShortName: CAB04	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: CAB Native Coronary Disease Locat	tion 05	SeqNo: 2955
Short Name: CABDisLoc05		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
Definition: Indicate the native coronary disease loc	ation.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 05	Format:	Text (categorical values specified by STS)
ParentShortName: CAB05	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Left Main		
2 Proximal LAD		
3 Mid LAD		
4 Distal LAD		
5 Diagonal 1		
6 Diagonal 2		
7 Circumflex		
8 OM 1		
9 OM 2		
10 OM 3		
11 RCA		
12 PDA		
13 PLB		
14 AM branches		
15 Ramus		

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: CAB Highest Percent Stenosis Ir	n Native Vessel 05		SeqNo:	296
Short Name: CABPctSten05			Core:	N
Section Name: Coronary Bypass			Harvest:	N
DBTableName AdultData				
Definition: Indicate the highest percentage of s	stenosis found in the	native vessel.		
LowValue: 1 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: CAB 05	Format:	Integer		
ParentShortName: CAB05	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Long Name: CAB Previous Conduit 05			SeqNo:	296
Short Name: CABPrevCon05			Core:	N
Section Name: Coronary Bypass			Harvest:	N
DBTableName AdultData				
Definition: Indicate presence of coronary artery	y bypass conduit for	this vessel and whet	her or not it is dis	eased.
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB 05	Format:	Text (categorical va	alues specified by	STS)
ParentShortName: CAB05	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
Code:Value:1Yes - Diseased				

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: CAB Distal Site 05	<i>SeqNo:</i> 2970
Short Name: CABDistSite05	Core: Yes
Section Name: Coronary Bypass	Harvest: Yes
DBTableName AdultData	

LowValue: HighValue:	UsualRangeLow:		
Parent Long Name:	UsualRangeHigh: CAB 05	Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCode	s: 1		

<u>C</u>	ode:	Value:	Definition:	
	15	Left Main	Left Main	
	5	Prox LAD	Proximal Left Anterior Descending	
	6	Mid LAD	Middle Left Anterior Descending	
	7	Distal LAD	Distal Left Anterior Descending	
	8	Diagonal 1	First Diagonal	
	9	Diagonal 2	Second Diagonal	
	16	Diagonal 3	Third Diagonal	
	17	Circumflex	Circumflex	
	11	Obtuse Marginal 1	First Obtuse Marginal	
	12	Obtuse Marginal 2	Second Obtuse Marginal	
	13	Obtuse Marginal 3	Third Obtuse Marginal	
	10	Ramus	Ramus Intermedius	
	1	RCA	Right Coronary Artery	
	2	Acute Marginal (AM)	Acute Marginal	
	3	Posterior Descending (PDA)	Posterior Descending Artery	
	4	Posterolateral (PLB)	Posterolateral Branch	
	14	Other	Any other site	

Long Name: CAB Distal Technique 05 SeqNo: 2975 Short Name: CABDistTech05 Core: No Section Name: Coronary Bypass Harvest: No DBTableName AdultData Section Name: Section	STS Adult Cardiac Surgery Database		Version: 2.81
Section Name: Coronary Bypass Harvest No DBTableName AduitData Definition: Indicate technique used for distal anastomosis. LowValue: UsualRangeIow: HighValue: UsualRangeIfigh: Parent Long Name: CAB 05 Pormat: Text (categorical values specified by STS) ParentNomm: CAB 05 DataLength: ParentValue: = "Yes" Data Source: User ParentValue: I Running 2 Interrupted 3 Clips 4 Naastomotic Device Long Name: CAB Proximal Site 05 SeqNo: 2980 Short Name: CABProximal Site 05 Core: Yes Section Name: CABProximal Site 05 Core: Yes Section Name: CABProximal Site 05 Core: Yes DBTableName AduitDat Definition: Indicate proximal Site of the bypass graft. LowValue: UsualRangeIigh: Parent Long Name: CAB 05 Pormat: Text (categorical values specified by STS) ParentName: CABProximal Site of the bypass graft. LowValue: UsualRangeIigh: Parent Long Name: CAB 05 DataLength: ParentValue: UsualRangeIigh: Parent Long Name: CAB 05 DataLength: ParentValue: IsualRangeIigh: ParentValue: IsualRan	Long Name: CAB Distal Technique 05		SeqNo: 2975
DBTableName AdultData Definition: Indicate technique used for distal anastomosis. LowValue: UsualRangeLow: HigkValue: UsualRangeHigh: Parent Long Name: CAB 05 Format: Text (categorical values specified by STS) ParentValue: = "Yes" Data Source: User ParentValue: = "Yes" Data Source: User ParentValue: = "Yes" Data Source: User ParentValue: - Yes" Data Source: SeqNo: 2980 Short Name: CABProxinal Site 05 Core: Yes Short Name: CABProxinal Site 05 Core: Yes DBTableName AdultData Definition: Indecate proximal site of the bypass graft. LowValue: UsualRangeLow: Yes ParentValue: UsualRangeLow: DataLength: ParentValue: Text (categorical values specified by STS) ParentValue: UsualRangeHigh:	Short Name: CABDistTech05		Core: No
Definition:Indicate technique used for distal anastomosis.LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:CAB 05Format:Text (categorical values specified by STS)ParentShoriName:CABSDatalength:ParentValue:"Yes"Data Source:UserParentValue:"Yes"Data Source:UserParentValue:1Running12Interrupted3Clips3Clips1Anastomotic DeviceLong Name:CAB Proximal Site 05Core:YesSection Name:CAB Proximal Site 05Core:YesDBTableNameAdultJateVesYesDBTableNameAdultJateYesYesDefinition:Indicate proximal site of the bypass graft.Text (categorical values specified by STS)ParentSonName:CAB Proximal Site 05Format:Text (categorical values specified by STS)DBTableNameAdultJateJualAngeDow:YesParentSonName:CAB 05Format:Text (categorical values specified by STS)ParentJang Value:= "Yes"Data Source:UserParentValue:= "Yes"Data Source:UserParentJang Value:= "Yes"Data Source:UserParentValue:= "Yes"Data Source:UserParentValue:= "Yes"Data Source:UserParentValue:= "Yes"Data Source:UserParentValue:= "Yes"Data Source	Section Name: Coronary Bypass		Harvest: No
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:CAB 05Format:Text (categorical values specified by STS)ParentShortName:CAB05DataLangth:ParentHarvestCodes:IHarvest Code:Value:2Interrupted3Clips4Anastomotic DeviceLong Name:CAB Proximal Site 05Short Name:CaBProximal Site 05Scition Name:Coros:YesYesDefinition:Interrupted3ClipsHarvest Code::UsualRangeLow:HighValue:UsualRangeLow:HighValue:UsualRangeLow:HighValue:UsualRangeLow:HighValue:IsualRangeLow:HighValue:= "Yes"ParentLong Name:CAB D5ParentShortName:CAB D5ParentArvestCodes:IHarvestCodes:IHarvestCodes:IHarvestCodes:IHarvestCodes:IHarvestCodes:IHarvestCodes:IHarvestCodes:IIIn Situ Mammary2Ascending aorta3Subclavian artery5Innominate artery6T-graft off SVG	DBTableName AdultData		
HighValue: UsualRangeHigh: Parent Long Name: CAB 05 ParentShortName: CAB05 ParentValue: = "Yes" ParentValue: = "Yes" ParentValue: = "Yes" Data Source: User ParentHarvestCodes: I Harvest Codes: I Harvest Codes: I I Running 2 Interrupted 3 Clips 4 Anastomotic Device Short Name: CAB Proximal Site 05 Definition: Interrupted Definition: Interruption Definition: Interruption Definition: UsualRangeLow: HighValue: UsualRangeHigh: ParentLong Name: CAB 05 ParentShortName: CAB 05 ParentValue: UsualRangeLow: HighValue: UsualRangeLow: HighValue: UsualRangeLow: ParentLong Name: CAB 05 ParentValue: Instruments Queeteeteeteeteeteeteeteeteeteeteeteeteet	Definition: Indicate technique used for distal anasto	omosis.	
Parent Long Name: CAB 05 Format: Text (categorical values specified by STS) ParentShortName: CAB05 DataLength: ParentValue: = "Yes" Data Source: User ParentHarvestCodes: I Iterrupted Iterrupted Iterrupted 3 Clips Anastomotic Device SeqNo: 2980 Short Name: CAB Proximal Site 05 Core: Yes Definition: Indicate proximal Site 05 Core: Yes DBTableName AdultData Core: Yes DBTableName AdultData Core: Yes Definition: Indicate proximal site of the bypass graft. Text (categorical values specified by STS) ParentLong Name: CAB 05 Format: Text (categorical values specified by STS) ParentLong Name: CAB 05 DataLength: Format: Text (categorical values specified by STS) ParentLong Name: CAB 05 DataLength: Format: Text (categorical values specified by STS) ParentLong Name: CAB 05 DataLength: Format: Text (categorical values specified by STS) ParentHarvestCodes:	LowValue: UsualRangeLow:		
ParentShortName: CAB05 DataLength: ParentValue: = "Yes" Data Source: User ParentHarvestCodes: 1 Harvest Codes: SeqNo:: 2 Long Name: CAB trupted 3 Clips A nastomotic Device Long Name: CAB Proximal Site 05 SeqNo:: 2980 Short Name: CABProximalSite05 Core: Yes DBTableName AdultData Core: Yes Definition: Indicate proximal site of the bypass graft. Text (categorical values specified by STS) Parent Long Name: CAB 05 Pormat: Text (categorical values specified by STS) ParentShortName: CAB05 DataLength: ParentHarvestCodes: 1 ParentHarvestCodes: 1 Istitu Mammary 2 Ascending aorta 3 Descending aorta 3 Descending aorta 3 Descending aorta 4 Subclavian artery 5 Innominate artery 5	U U		
ParentValue: = "Yes" Data Source: User ParentHarvestCodes: I HarvestCodes: I HarvestCodes: I Running 2 Interrupted 3 Cips 4 Anastomotic Device SeegNo: 2980 Short Name: CABProximal Site 05 SeegNo: 2980 Short Name: CAProximalSite05 Core: Yes DBTableName Aulutata Seetion Name: Core: Yes DBTableName Aulutata Seetion Name: CAB 05 Format: Text (categorical values specified by STS) ParentBhortName: CAB 05 Format: Text (categorical values specified by STS) ParentBhortName: CAB 05 Format: Text (categorical values specified by STS) ParentParentShortName: CAB 05 Format: Text (categorical values specified by STS) ParentParentShortName: CAB 05 Format: Text (categorical values specified by STS) ParentHarvestCodes: I Institu Mammary Augusta Institu Mammary Institu Mammary Institu Mammary Institu Mamm	Parent Long Name: CAB 05	Format:	Text (categorical values specified by STS)
ParentHarvestCodes: I Harvest Codes: Code: Value: 1 Running 2 Interrupted 3 Clips 4 Anastomotic Device Long Name: CAB Proximal Site 05 Short Name: CAB Proximal Site 07 BrableName AdultDat Definition: Indicate proximal site of the bypass graft. LowValue: UsualRangeLow: HighValue: UsualRangeLow: HighValue: SusualRangeLow: HighValue: Short Name: CAB 05 ParentShortName: CAB 05 ParentS	ParentShortName: CAB05	DataLength:	
Harvest Codes: Value: 1 Running 2 Interrupted 3 Clips 2 Cips 2 Clips 2 2980 Short Name: CAB Proximal Site 05 SeqNo: 2980 2980 Short Name: CABProximalSite05 Core: Yes Section Name: Coronary Bypass Harvest: Yes DBTableName AdultData Definition: Indicate proximal site of the bypass graft. LowValue: UsualRangeLow: HighValue: UsualRangeLow: HighValue: UsualRangeLow: HighValue: UsualRangeLow: Parent Long Name: CAB 05 Parent ShortName: CAB05 ParentShortName: CAB05 ParentValue: = "Yes" ParentValue: = "Yes" Data Source: User ParentHarvestCodes: 1 Harvest 2 Ascending aorta 3 A Subclavian artery A Subclavian artery A Inominate artery A Togath off SVG	<i>ParentValue:</i> = "Yes"	Data Source:	User
Code: Value: 1 Running 2 Interrupted 3 Cips 4 Anastomotic Device Long Name: CAB Proximal Site 05 SeqNo: 2980 Short Name: CABProximal Site 05 Core: Yes Section Name: COronury Bypass Harvest: Yes DBTableName AdultData Parent AdultData Yes Definition: Indicate proximal site of the bypass graft. IssualRangeLow: HighValue: Yes Parent Long Name: CAB 05 Format: Text (categorical values specified by STS) ParentShortName: CAB05 DataLength: Yes ParentValue: = 'Yes'' Data Source: User ParentValue: = 'Yes'' <	ParentHarvestCodes: 1		
Code: Value: 1 Running 2 Interrupted 3 Cips 4 Anastomotic Device Long Name: CAB Proximal Site 05 SeqNo:: 2980 Short Name: CABProximal Site 05 Core: Yes Section Name: Coronury Bypass Harvest: Yes DBTableName AdultData Harvest: Yes Definition: Indicate proximal site of the bypass graft. Harvest: Yes LowValue: UsualRangeLow: HighValue: UsualRangeLow: Yes Parent Long Name: CAB 05 Paraent: Text (categorical values specified by STS) ParentShortName: CAB05 DataLength: ParentYalue: "Yes" ParentValue: "Yes" Data Source: User ParentValue: "Yes" Data Source: User ParentValue: a Subclavian artery Jaceending aorta Jaceending aorta 4 Subclavian artery Jaceanding aorta Jaceanding artery Jaceanding artery 5 Innominate artery Jacegraft off SVG	Harvest Codes:		
1 Running 2 Interrupted 3 Clips 4 Anastomotic Device Long Name: CAB Proximal Site 05 SeqNo:: 2980 Short Name: CABProximal Site 05 Core: Yes Section Name: COOPATY Bypass Harvest: Yes Definition: Indicate proximal site of the bypass graft. Harvest: Yes LowValue: UsualRangeLow: HighValue: UsualRangeLigh: Parent ShortName: CAB 05 Parent Source: User Parent Long Name: CAB 05 DataLength: ParentShortName: CAB05 Data Source: User Parent Harvest Codes: 1 In Situ Mammary 2 Ascending aorta 5 Descending aorta 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG T T T T T T T T T T T T T T T T			
 1 Interrupted Clips A nastomotic Device Long Name: CAB Proximal Site 05 SeqNo: 2980 Short Name: CABProximalSite05 Core: Yes Section Name: Coronary Bypass Harvest: Yes DBTableName AdultData Definition: Indicate proximal site of the bypass graft. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 05 Format: Text (categorical values specified by STS) ParentShortName: CAB05 DataLength: ParentHarvestCodes: 1 Harvest Codes: I In Situ Mammary A scending aorta Sectioning aorta Subclavian artery Innominate artery Formatic Text (Categorical values and the section of the section			
3 Clips 4 Anastomotic Device Long Name: CAB Proximal Site 05 SeqNo:: 2980 Short Name: CABProximalSite05 Core: Yes Section Name: Coronary Bypass Harvest: Yes DBTableName AdultData Yes Definition: Indicate proximal site of the bypass graft. Yes LowValue: UsualRangeLow: Yes Parent Long Name: CAB 05 Portate Intervention State RangeLow: Yes ParentShortName: CAB 05 DataLength: Yes Yes ParentShortName: CAB 05 Data Source: User Yes ParentHarvestCodes: 1 In Situ Mammary In Situ Mammary Yes Yes Yes Yes 1 In Situ Mammary Ascending aorta Yes Yes Yes Yes Yes 3 Descending aorta Yes Yes Yes Yes Yes Yes 1 In Situ Mammary Yes Ascending aorta	-		
4 Anastomotic Device SeqNo: 2980 Long Name: CAB Proximal Site 05 Core: Yes Short Name: Coronry Bypass Harvest: Yes DBTableName AdultData Yes Definition: Indicate proximal site of the bypass graft. Low Value: UsualRangeLow: HighValue: UsualRangeHigh: Text (categorical values specified by STS) Parent Long Name: CAB 05 Format: Text (categorical values specified by STS) ParentShortName: CAB05 DataLength: ParentHarvestCodes: 1 In Situ Mammary 1 In Situ Mammary 2 Ascending aorta 2 Ascending aorta 3 Descending aorta 3 Inscinut antery 5 Innominate artery Innominate artery Innominate artery 6 T-graft off SVG	•		
Long Name: CAB Proximal Site 05 SeqNo: 2980 Short Name: CABProximalSite05 Core: Yes Section Name: Coronary Bypass Harvest: Yes DBTableName AdultData Harvest: Yes Definition: Indicate proximal site of the bypass graft. Indicate proximal site of the bypas	•		
Short Name: CABProximalSite05 Core: Yes Section Name: Coronary Bypass Harvest: Yes Section Name: Coronary Bypass Harvest: Yes DBTableName AdultData AdultData Image: Coronary Bypass Harvest: Yes Definition: Indicate proximal site of the bypass graft. Image: CAB 05 Format: Text (categorical values specified by STS) Parent Long Name: CAB 05 Cote: Yes ParentShortName: CAB05 DataLength: Image: CAB05 Image: CAB05 ParentHarvestCodes: 1 Image: Code: Yes ParentHarvestCodes: 1 Image: Code: Yes In Situ Mammary 2 Ascending aorta Image: Cage: Code:			
Section Name: Coronry Bypass Harvest: Harvest: Yes DBTableName Adult Lau	Long Name: CAB Proximal Site 05		<i>SeqNo:</i> 2980
DBTableName AdultData Definition: Indicate proximal site of the bypass graft. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 05 Format: Text (categorical values specified by STS) ParentShortName: CAB05 DataLength: ParentValue: = "Yes" Data Source: User ParentHarvestCodes: 1 Harvest Codes: 1 Harvest Codes: <u>Code: Value:</u> 1 In Situ Mammary 2 Ascending aorta 3 Descending aorta 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG	Short Name: CABProximalSite05		Core: Yes
Definition: Indicate revenues state of the bypass graft. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 05 Format: Text (categorical values specified by STS) ParentName: CAB 05 DataLength: ParentValue: = "Yes" Data Source: User ParentHarvestCodes: I Issitu Mammary Issitu Mammary 2 Ascending aorta Issitu Mammary Issitu Mammary 3 Descending aorta Issitu Mammary Issitu Mammary 4 Subclavian artery Innominate artery Innominate artery 6 T-graft off SVG Issitu Mammary Issitu Mammary	Section Name: Coronary Bypass		Harvest: Yes
LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 05 Format: Text (categorical values specified by STS) ParentShortName: CAB05 DataLength: ParentValue: = "Yes" Data Source: User ParentHarvestCodes: 1 Harvest Codes: 1 Harvest Codes: <u>Code: Value:</u> 1 In Situ Mammary 2 Ascending aorta 3 Descending aorta 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG	DBTableName AdultData		
HighValue:UsualRangeHigh:Parent Long Name:CAB 05Format:Text (categorical values specified by STS)ParentShortName:CAB05DataLength:ParentValue:= "Yes"Data Source:UserParentHarvestCodes:1Harvest Codes:1Harvest Codes:1In Situ Mammary2Ascending aorta3Descending aorta3Descending aorta4Subclavian artery5Innominate artery66T-graft off SVGInternet for the state of the	Definition: Indicate proximal site of the bypass graf	ft.	
Parent Long Name:CAB 05Format:Text (categorical values specified by STS)ParentShortName:CAB05DataLength:ParentValue:= "Yes"Data Source:UserParentHarvestCodes:1Harvest Codes:1Harvest Code:Value:1In Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	LowValue: UsualRangeLow:		
ParentShortName:CAB05DataLength:ParentValue:= "Yes"Data Source:ParentHarvestCodes:1Harvest Codes:1Lander StereValue:1In Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	HighValue: UsualRangeHigh:		
ParentValue:= "Yes"Data Source: UserParentHarvestCodes:1Harvest Codes:1Harvest Codes:Value:1In Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	Parent Long Name: CAB 05	Format:	Text (categorical values specified by STS)
ParentHarvestCodes:Harvest Codes:Code:Value:1In Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	ParentShortName: CAB05	DataLength:	
Harvest Codes:Code:Value:1In Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	<i>ParentValue:</i> = "Yes"	Data Source:	User
Code:Value:1In Situ Mammary2Ascending aorta3Descending aorta4Subclavian artery5Innominate artery6T-graft off SVG	ParentHarvestCodes: 1		
 In Situ Mammary Ascending aorta Descending aorta Subclavian artery Innominate artery T-graft off SVG 	Harvest Codes:		
 Ascending aorta Descending aorta Subclavian artery Innominate artery T-graft off SVG 	Code: Value:		
 3 Descending aorta 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG 	1 In Situ Mammary		
 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG 	2 Ascending aorta		
 4 Subclavian artery 5 Innominate artery 6 T-graft off SVG 	3 Descending aorta		
 5 Innominate artery 6 T-graft off SVG 			
6 T-graft off SVG			
-	•		
	-		

- 8 T-graft off LIMA
- 9 T-graft off RIMA
- 10 Natural Y vein graft
- 11 Other

Long Name: CAB Proximal Technique 05		SeqNo: 298
Short Name: CABProxTech05		Core: N
Section Name: Coronary Bypass		Harvest: N
DBTableName AdultData		
Definition: Indicate technique used for proximal an	astomosis.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 05	Format:	Text (categorical values specified by STS)
ParentShortName: CAB05	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
5 In Situ Mammary		
1 Running		
2 Interrupted		
3 Anastomotic Device		
4 Anastomotic Assist Device		
Long Name: CAB Conduit 05		SeqNo: 299
Short Name: CABConduit05		Core: Ye
Section Name: Coronary Bypass		Harvest: Ye
DBTableName AdultData		
Definition: Indicate the conduit type used.		
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 05	Format:	Text (categorical values specified by STS)
ParentShortName: CAB05	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
<u>Code:</u> <u>Value:</u>		
1 Vein graft		
-		

- 3 In Situ RIMA
- 4 Free IMA
- 5 Radial artery
- 6 Other arteries, homograft
- 7 Synthetic graft

Long Name: CAB Distal Position 05		<i>SeqNo:</i> 2995
Short Name: CABDistPos05		Core: Yes
Section Name: Coronary Bypass		Harvest: Yes
DBTableName AdultData		
Definition: Indicate anastomotic position.		
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 05	Format:	Text (categorical values specified by STS)
ParentShortName: CAB05	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 End to side		
2 Sequential (side to side)		
Long Name: CAB Endarterectomy 05		SeqNo: 3000
Long Name:CAB Endarterectomy 05Short Name:CABEndArt05		SeqNo: 3000 Core: Yes
· ·		_
Short Name: CABEndArt05		Core: Yes
Short Name: CABEndArt05 Section Name: Coronary Bypass	performed.	Core: Yes
Short Name: CABEndArt05 Section Name: Coronary Bypass DBTableName AdultData	performed.	Core: Yes
Short Name: CABEndArt05 Section Name: Coronary Bypass DBTableName AdultData Definition: Indicate whether endarterectomy was p	performed.	Core: Yes
Short Name: CABEndArt05 Section Name: Coronary Bypass DBTableName AdultData Definition: Indicate whether endarterectomy was p LowValue: UsualRangeLow:	performed. Format:	Core: Yes
Short Name:CABEndArt05Section Name:Coronary BypassDBTableNameAdultDataDefinition:Indicate whether endarterectomy was pLowValue:UsualRangeLow:HighValue:UsualRangeHigh:		Core: Yes Harvest: Yes
Short Name:CABEndArt05Section Name:Coronary BypassDBTableNameAdultDataDefinition:Indicate whether endarterectomy was pLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:CAB 05	Format:	Core: Yes Harvest: Yes Text (categorical values specified by STS)
Short Name: CABEndArt05 Section Name: Coronary Bypass DBTableName AdultData Definition: Indicate whether endarterectomy was p LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 05 ParentShortName: CAB05	Format: DataLength:	Core: Yes Harvest: Yes Text (categorical values specified by STS)
Short Name: CABEndArt05 Section Name: Coronary Bypass DBTableName AdultData Definition: Indicate whether endarterectomy was p LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 05 ParentShortName: CAB05 ParentValue: = "Yes"	Format: DataLength:	Core: Yes Harvest: Yes Text (categorical values specified by STS)
Short Name: CABEndArt05 Section Name: Coronary Bypass DBTableName AdultData Definition: Indicate whether endarterectomy was p LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 05 ParentShortName: CAB05 ParentValue: = "Yes" ParentHarvestCodes: 1	Format: DataLength:	Core: Yes Harvest: Yes Text (categorical values specified by STS)
Short Name: CABEndArt05 Section Name: Coronary Bypass DBTableName AdultData Definition: Indicate whether endarterectomy was p LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 05 ParentShortName: CAB05 ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes:	Format: DataLength:	Core: Yes Harvest: Yes Text (categorical values specified by STS)

Long Name: CAB Hybrid PCI 05			SeqNo:	3005
Short Name: CABHyPCI05			Core:	No
Section Name: Coronary Bypass			Harvest:	No
DBTableName AdultData				
<i>Definition:</i> Indicate whether hybrid PCI (Percuta conjunction with this graft.	aneous Coronary Ir	ntervention) procedure wa	as performed	in
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:				
Parent Long Name: CAB 05	Format:	Text (categorical values	s specified by	STS)
ParentShortName: CAB05	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
<u>Code:</u> <u>Value:</u>				
1 No				
2 Angioplasty				
3 Stent				
5 Steff				
Long Name: CAB 06			SeqNo:	3010
Short Name: CAB06			Core:	Yes
Section Name: Coronary Bypass			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether a sixth Coronary An	rtery Bypass graft	was done.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB 05	Format:	Text (categorical values	s specified by	STS)
ParentShortName: CAB05	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: CAB Native Coronary Disease	Location 06	<i>SeqNo:</i> 3015
Short Name: CABDisLoc06		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
Definition: Indicate the native coronary disease	se location.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 06	Format:	Text (categorical values specified by STS)
ParentShortName: CAB06	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Left Main		
2 Proximal LAD		
3 Mid LAD		
4 Distal LAD		
5 Diagonal 1		
6 Diagonal 2		
7 Circumflex		
8 OM 1		
9 OM 2		
10 OM 3		
11 RCA		
12 PDA		
13 PLB		
14 AM branches		
15 Ramus		

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: CAB Highest Percent Stenosis Ir	n Native Vessel 06		SeqNo:	3020
Short Name: CABPctSten06			Core:	N
Section Name: Coronary Bypass			Harvest:	No
DBTableName AdultData				
Definition: Indicate the highest percentage of s	stenosis found in the	native vessel.		
LowValue: 1 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: CAB 06	Format:	Integer		
ParentShortName: CAB06	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Long Name: CAB Previous Conduit 06			SeqNo:	302
Short Name: CABPrevCon06			Core:	N
Section Name: Coronary Bypass			Harvest:	N
DBTableName AdultData				
Definition: Indicate presence of coronary artery	y bypass conduit for	this vessel and wheth	ner or not it is dis	eased.
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB 06	Format:	Text (categorical va	lues specified by	STS)
ParentShortName: CAB06	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
That vest Coues.				
<u>Code:</u> <u>Value:</u>				
Code: Value:				

STS Adult Cardiac Surgery Database	Version:	2.81
Long Name: CAB Distal Site 06	SeqNo:	3030
Short Name: CABDistSite06	Core:	Yes
Section Name: Coronary Bypass	Harvest:	Yes
DBTableName AdultData		

LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
Parent Long Name:	CAB 06	Format:	Text (categorical values specified by STS)	
ParentShortName:	CAB06	DataLength:		
ParentValue:	= "Yes"	Data Source:	User	
ParentHarvestCodes	s: 1			

Code:	Value:	Definition:
15	Left Main	Left Main
5	Prox LAD	Proximal Left Anterior Descending
6	Mid LAD	Middle Left Anterior Descending
7	Distal LAD	Distal Left Anterior Descending
8	Diagonal 1	First Diagonal
9	Diagonal 2	Second Diagonal
16	Diagonal 3	Third Diagonal
17	Circumflex	Circumflex
11	Obtuse Marginal 1	First Obtuse Marginal
12	Obtuse Marginal 2	Second Obtuse Marginal
13	Obtuse Marginal 3	Third Obtuse Marginal
10	Ramus	Ramus Intermedius
1	RCA	Right Coronary Artery
2	Acute Marginal (AM)	Acute Marginal
3	Posterior Descending (PDA)	Posterior Descending Artery
4	Posterolateral (PLB)	Posterolateral Branch
14	Other	Any other site

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: CAB Distal Technique 06		SeqNo: 3035
Short Name: CABDistTech06		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
Definition: Indicate technique used for distal anast	omosis.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 06	Format:	Text (categorical values specified by STS)
ParentShortName: CAB06	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Running		
2 Interrupted		
3 Clips		
4 Anastomotic Device		
Long Name: CAB Proximal Site 06		SeqNo: 3040
Short Name: CABProximalSite06		Core: Yes
Section Name: Coronary Bypass		Harvest: Yes
DBTableName AdultData		
Definition: Indicate proximal site of the bypass gra	ıft.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 06	Format:	Text (categorical values specified by STS)
ParentShortName: CAB06	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 In Situ Mammary		
2 Ascending aorta		
3 Descending aorta		
4 Subclavian artery		
•		
5 Innominate artery		
6 T-graft off SVG		
7 T-graft off Radial		

- 8 T-graft off LIMA
- 9 T-graft off RIMA
- 10 Natural Y vein graft
- 11 Other

Long Name: CAB Proximal Technique 06		SeqNo: 3045
Short Name: CABProxTech06		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
Definition: Indicate technique used for proximal an	astomosis.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 06	Format:	Text (categorical values specified by STS)
ParentShortName: CAB06	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
5 In Situ Mammary		
1 Running		
2 Interrupted		
3 Anastomotic Device		
4 Anastomotic Assist Device		
Long Name: CAB Conduit 06		SeqNo: 3050
Short Name: CABConduit06		<i>Core:</i> Yes
Section Name: Coronary Bypass		Harvest: Yes
DBTableName AdultData		
<i>Definition:</i> Indicate the conduit type used.		
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:		
Parent Long Name: CAB 06	Format:	Text (categorical values specified by STS)
ParentShortName: CAB06	DataLength:	
ParentValue: = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
<u>Code:</u> <u>Value:</u>		
<u>Code:</u> <u>value:</u> 1 Vein graft		
i venigiait		

- 3 In Situ RIMA
- 4 Free IMA
- 5 Radial artery
- 6 Other arteries, homograft
- 7 Synthetic graft

Long Name: CAB Distal Position 06		<i>SeqNo:</i> 3055
Short Name: CABDistPos06		Core: Yes
Section Name: Coronary Bypass		Harvest: Yes
DBTableName AdultData		
Definition: Indicate anastomotic position.		
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 06	Format:	Text (categorical values specified by STS)
ParentShortName: CAB06	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 End to side		
2 Sequential (side to side)		
Long Name: CAB Endarterectomy 06		<i>SeqNo:</i> 3060
Long Name:CAB Endarterectomy 06Short Name:CABEndArt06		SeqNo: 3060 Core: Yes
· ·		_
Short Name: CABEndArt06		Core: Yes
Short Name: CABEndArt06 Section Name: Coronary Bypass	erformed.	Core: Yes
Short Name: CABEndArt06 Section Name: Coronary Bypass DBTableName AdultData	erformed.	Core: Yes
Short Name: CABEndArt06 Section Name: Coronary Bypass DBTableName AdultData Definition: Indicate whether endarterectomy was p	performed.	Core: Yes
Short Name:CABEndArt06Section Name:Coronary BypassDBTableNameAdultDataDefinition:Indicate whether endarterectomy was pLowValue:UsualRangeLow:	performed. Format:	Core: Yes
Short Name:CABEndArt06Section Name:Coronary BypassDBTableNameAdultDataDefinition:Indicate whether endarterectomy was pLowValue:UsualRangeLow:HighValue:UsualRangeHigh:		Core: Yes Harvest: Yes
Short Name:CABEndArt06Section Name:Coronary BypassDBTableNameAdultDataDefinition:Indicate whether endarterectomy was pLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:CAB 06	Format:	Core: Yes Harvest: Yes Text (categorical values specified by STS)
Short Name: CABEndArt06 Section Name: Coronary Bypass DBTableName AdultData Definition: Indicate whether endarterectomy was p LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 06 ParentShortName: CAB06	Format: DataLength:	Core: Yes Harvest: Yes Text (categorical values specified by STS)
Short Name: CABEndArt06 Section Name: Coronary Bypass DBTableName AdultData Definition: Indicate whether endarterectomy was p LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 06 ParentShortName: CAB06 ParentValue: = "Yes"	Format: DataLength:	Core: Yes Harvest: Yes Text (categorical values specified by STS)
Short Name: CABEndArt06 Section Name: Coronary Bypass DBTableName AdultData Definition: Indicate whether endarterectomy was p LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 06 ParentShortName: CAB06 ParentValue: = "Yes" ParentHarvestCodes: 1	Format: DataLength:	Core: Yes Harvest: Yes Text (categorical values specified by STS)
Short Name: CABEndArt06 Section Name: Coronary Bypass DBTableName AdultData Definition: Indicate whether endarterectomy was p LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: CAB 06 ParentShortName: CAB06 ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes:	Format: DataLength:	Core: Yes Harvest: Yes Text (categorical values specified by STS)

Long Name: CAB Hybrid PCI 06		SeqNo:	3065
Short Name: CABHyPCI06		Core:	No
Section Name: Coronary Bypass		Harvest:	No
DBTableName AdultData			
<i>Definition:</i> Indicate whether hybrid PCI (Percuta conjunction with this graft.	aneous Coronary Ir	ntervention) procedure was performed	in
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:			
Parent Long Name: CAB 06	Format:	Text (categorical values specified by	STS)
ParentShortName: CAB06	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code:Value:1No2Angioplasty3Stent			
Long Name: CAB 07		SeqNo:	3070
Short Name: CAB07		Core:	Yes
Section Name: Coronary Bypass		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether a seventh Coronary	Artery Bypass gra	ft was done.	
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:			
Parent Long Name: CAB 06	Format:	Text (categorical values specified by	STS)
ParentShortName: CAB06	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: CAB Native Coronary Disease Loca	tion 07	<i>SeqNo:</i> 3075
Short Name: CABDisLoc07		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
Definition: Indicate the native coronary disease loo	cation.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 07	Format:	Text (categorical values specified by STS)
ParentShortName: CAB07	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	· User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Left Main		
2 Proximal LAD		
3 Mid LAD		
4 Distal LAD		
5 Diagonal 1		
6 Diagonal 2		
7 Circumflex		
8 OM 1		
9 OM 2		
10 OM 3		
11 RCA		
12 PDA		
13 PLB		
14 AM branches		
15 Ramus		

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: CAB Highest Percent Stenosis Ir	n Native Vessel 07		SeqNo:	3080
Short Name: CABPctSten07			Core:	No
Section Name: Coronary Bypass			Harvest:	No
DBTableName AdultData				
Definition: Indicate the highest percentage of s	tenosis found in the	native vessel.		
LowValue: 1 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: CAB 07	Format:	Integer		
ParentShortName: CAB07	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Long Name: CAB Previous Conduit 07			SeqNo:	3085
Short Name: CABPrevCon07			Core:	No
Section Name: Coronary Bypass			Harvest:	No
DBTableName AdultData				
Definition: Indicate presence of coronary arter	y bypass conduit for	this vessel and wheth	er or not it is dis	eased.
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB 07	Format:	Text (categorical va	lues specified by	STS)
ParentShortName: CAB07	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Harvest Codes: <u>Code:</u> <u>Value:</u>				
Code: Value:				

STS Adult Cardiac Surgery Database		Version	2.81
Long Name:	CAB Distal Site 07	SeqNo:	3090
Short Name:	CABDistSite07	Core:	Yes
Section Name:	Coronary Bypass	Harvest:	Yes
DBTableName	AdultData		

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	CAB 07	Format:	Text (categorical values specified by STS)
ParentShortName:	CAB07	DataLength:	
ParentValue:	= "Yes"	Data Source:	User

ParentHarvestCodes: 1

Code:	Value:	Definition:
15	Left Main	Left Main
5	Prox LAD	Proximal Left Anterior Descending
6	Mid LAD	Middle Left Anterior Descending
7	Distal LAD	Distal Left Anterior Descending
8	Diagonal 1	First Diagonal
9	Diagonal 2	Second Diagonal
16	Diagonal 3	Third Diagonal
17	Circumflex	Circumflex
11	Obtuse Marginal 1	First Obtuse Marginal
12	Obtuse Marginal 2	Second Obtuse Marginal
13	Obtuse Marginal 3	Third Obtuse Marginal
10	Ramus	Ramus Intermedius
1	RCA	Right Coronary Artery
2	Acute Marginal (AM)	Acute Marginal
3	Posterior Descending (PDA)	Posterior Descending Artery
4	Posterolateral (PLB)	Posterolateral Branch
14	Other	Any other site

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: CAB Distal Technique 07		SeqNo: 3095
Short Name: CABDistTech07		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
Definition: Indicate technique used for distal ana	stomosis.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 07	Format:	Text (categorical values specified by STS)
ParentShortName: CAB07	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Running		
2 Interrupted		
3 Clips		
4 Anastomotic Device		
Long Name: CAB Proximal Site 07		<i>SeqNo:</i> 3100
Short Name: CABProximalSite07		Core: Yes
Section Name: Coronary Bypass		Harvest: Yes
DBTableName AdultData		
Definition: Indicate proximal site of the bypass g	graft.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 07	Format:	Text (categorical values specified by STS)
ParentShortName: CAB07	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 In Situ Mammary		
2 Ascending aorta		
-		
3 Descending aorta		
e		
4 Subclavian artery		
-		

- 8 T-graft off LIMA
- 9 T-graft off RIMA
- 10 Natural Y vein graft
- 11 Other

Long Name: CAB Proximal Technique 07		SeqNo: 3105
Short Name: CABProxTech07		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
Definition: Indicate technique used for proximal an	astomosis.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 07	Format:	Text (categorical values specified by STS)
ParentShortName: CAB07	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
5 In Situ Mammary		
1 Running		
2 Interrupted		
3 Anastomotic Device		
4 Anastomotic Assist Device		
Long Name: CAB Conduit 07		SeqNo: 3110
Short Name: CABConduit07		Core: Yes
Section Name: Coronary Bypass		Harvest: Yes
DBTableName AdultData		
<i>Definition:</i> Indicate the conduit type used.		
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:	_	
Parent Long Name: CAB 07	Format:	Text (categorical values specified by STS)
ParentShortName: CAB07	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Vein graft		

- In Situ LIMA
 In Situ RIMA
- 4 Free IMA
- 5 Radial artery
- 6 Other arteries, homograft
- 7 Synthetic graft

Long Name:CAB Distal Position 07Short Name:CABDistPos07Section Name:Coronary BypassDBTableNameAdultDataDefinition:Indicate anastomotic position.		SeqNo:3115Core:YesHarvest:Yes
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:CAB 07ParentShortName:CAB07ParentValue:= "Yes"ParentHarvestCodes:1	Format: DataLength: Data Source:	Text (categorical values specified by STS) User
Harvest Codes: <u>Code:</u> <u>Value:</u> 1 End to side 2 Sequential (side to side)		
Long Name: CAB Endarterectomy 07 Short Name: CABEndArt07 Section Name: Coronary Bypass DBTableName AdultData Definition: Indicate whether endarterectomy was p	erformed.	SeqNo:3120Core:YesHarvest:Yes
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:CAB 07ParentShortName:CAB07ParentValue:= "Yes"ParentHarvestCodes:1	Format: DataLength: Data Source:	Text (categorical values specified by STS) User
Harvest Codes: <u>Code:</u> <u>Value:</u> 1 Yes 2 No		

Long Name: CAB Hybrid PCI 07			SeqNo:	3125
Short Name: CABHyPCI07			Core:	No
Section Name: Coronary Bypass			Harvest:	No
DBTableName AdultData				
<i>Definition:</i> Indicate whether hybrid PCI (Percuta conjunction with this graft.	aneous Coronary Ir	tervention) procedure w	as performed	in
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB 07	Format:	Text (categorical value	s specified by	STS)
ParentShortName: CAB07	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 No				
2 Angioplasty				
3 Stent				
Long Name: CAB 08			SeqNo:	3130
Short Name: CAB08			Core:	Yes
Section Name: Coronary Bypass			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether an eighth Coronary	Artery Bypass gra	ft was done.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB 07	Format:	Text (categorical value	s specified by	STS)
ParentShortName: CAB07	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: CAB Native Coronary Disease Loca	ntion 08	<i>SeqNo:</i> 3135
Short Name: CABDisLoc08		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
Definition: Indicate the native coronary disease loo	cation.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 08	Format:	Text (categorical values specified by STS)
ParentShortName: CAB08	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	· User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Left Main		
2 Proximal LAD		
3 Mid LAD		
4 Distal LAD		
5 Diagonal 1		
6 Diagonal 2		
7 Circumflex		
8 OM 1		
9 OM 2		
10 OM 3		
11 RCA		
12 PDA		
13 PLB		
14 AM branches		
15 Ramus		

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: CAB Highest Percent Stenosis In	n Native Vessel 08		SeqNo:	3140
Short Name: CABPctSten08			Core:	N
Section Name: Coronary Bypass			Harvest:	N
DBTableName AdultData				
Definition: Indicate the highest percentage of s	tenosis found in the	native vessel.		
LowValue: 1 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: CAB 08	Format:	Integer		
ParentShortName: CAB08	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Long Name: CAB Previous Conduit 08			SeqNo:	314
Short Name: CABPrevCon08			Core:	N
Section Name: Coronary Bypass			Harvest:	N
DBTableName AdultData				
Definition: Indicate presence of coronary artery	y bypass conduit for	this vessel and whet	her or not it is dis	eased.
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB 08	Format:	Text (categorical va	alues specified by	STS)
ParentShortName: CAB08	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Harvest Codes: <u>Code:</u> <u>Value:</u>				
Code: Value:				

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: CAB Distal Site 08	<i>SeqNo:</i> 3150
Short Name: CABDistSite08	Core: Yes
Section Name: Coronary Bypass	Harvest: Yes
DBTableName AdultData	

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	CAB 08	Format:	Text (categorical values specified by STS)
ParentShortName:	CAB08	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCodes	s: 1		

Code:	Value:	Definition:
15	Left Main	Left Main
5	Prox LAD	Proximal Left Anterior Descending
6	Mid LAD	Middle Left Anterior Descending
7	Distal LAD	Distal Left Anterior Descending
8	Diagonal 1	First Diagonal
9	Diagonal 2	Second Diagonal
16	Diagonal 3	Third Diagonal
17	Circumflex	Circumflex
11	Obtuse Marginal 1	First Obtuse Marginal
12	Obtuse Marginal 2	Second Obtuse Marginal
13	Obtuse Marginal 3	Third Obtuse Marginal
10	Ramus	Ramus Intermedius
1	RCA	Right Coronary Artery
2	Acute Marginal (AM)	Acute Marginal
3	Posterior Descending (PDA)	Posterior Descending Artery
4	Posterolateral (PLB)	Posterolateral Branch
14	Other	Any other site

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: CAB Distal Technique 08		<i>SeqNo:</i> 3155
Short Name: CABDistTech08		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
Definition: Indicate technique used for distal anasto	omosis.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 08	Format:	Text (categorical values specified by STS)
ParentShortName: CAB08	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
<u>Code:</u> <u>Value:</u>		
<u>Code:</u> <u>value:</u> 1 Running		
2 Interrupted		
•		
3 Clips4 Anastomotic Device		
4 Anastomotic Device		
Long Name: CAB Proximal Site 08		<i>SeqNo:</i> 3160
Short Name: CABProximalSite08		Core: Yes
Section Name: Coronary Bypass		Harvest: Yes
DBTableName AdultData		
Definition: Indicate proximal site of the bypass grad	ft.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 08	Format:	Text (categorical values specified by STS)
ParentShortName: CAB08	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 In Situ Mammary		
2 Ascending aorta		
3 Descending aorta		
4 Subclavian artery		
5 Innominate artery		
6 T-graft off SVG		
7 T-graft off Radial		

- 8 T-graft off LIMA
- 9 T-graft off RIMA
- 10 Natural Y vein graft
- 11 Other

Long Name: CAB Proximal Technique 08		<i>SeqNo:</i> 3165
Short Name: CABProxTech08		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
Definition: Indicate technique used for proximal an	astomosis.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 08	Format:	Text (categorical values specified by STS)
ParentShortName: CAB08	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
5 In Situ Mammary		
1 Running		
2 Interrupted		
3 Anastomotic Device		
4 Anastomotic Assist Device		
Long Name: CAB Conduit 08		SeqNo: 3170
Short Name: CABConduit08		Core: Yes
Section Name: Coronary Bypass		Harvest: Yes
DBTableName AdultData		
<i>Definition:</i> Indicate the conduit type used.		
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 08	Format:	Text (categorical values specified by STS)
ParentShortName: CAB08	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
<u>Code:</u> <u>Value:</u>		
1 Vein graft		
i vonigiait		

- In Situ LIMA
 In Situ RIMA
- 4 Free IMA
- 5 Radial artery
- 6 Other arteries, homograft
- 7 Synthetic graft

Long Name: CAB Distal Position 08			SeqNo:	3175
Short Name: CABDistPos08			Core:	Yes
Section Name: Coronary Bypass			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate anastomotic position.				
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB 08	Format:	Text (categorical values	specified by	STS)
ParentShortName: CAB08	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 End to side				
2 Sequential (side to side)				
Long Name: CAB Endarterectomy 08			SeqNo:	3180
Short Name: CABEndArt08			Core:	Yes
Section Name: Coronary Bypass			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether endarterectomy was per	rformed.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB 08	Format:	Text (categorical values	specified by	STS)
ParentShortName: CAB08	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

Long Name: CAB Hybrid PCI 08		SeqNo: 3185
Short Name: CABHyPCI08		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
<i>Definition:</i> Indicate whether hybrid PCI (Percur conjunction with this graft.	taneous Coronary Ir	ntervention) procedure was performed in
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 08	Format:	Text (categorical values specified by STS)
ParentShortName: CAB08	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 No		
2 Angioplasty		
3 Stent		
Long Name: CAB 09		<i>SeqNo:</i> 3190
Short Name: CAB09		Core: Yes
Section Name: Coronary Bypass		Harvest: Yes
DBTableName AdultData		
<i>Definition:</i> Indicate whether a ninth Coronary A	Artery Bypass graft	was done.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 08	Format:	Text (categorical values specified by STS)
ParentShortName: CAB08	DataLength:	
<i>ParentValue:</i> = "Yes"		
	Data Source:	User
ParentHarvestCodes: 1	Data Source:	User
ParentHarvestCodes: 1 Harvest Codes:	Data Source:	User
	Data Source:	User
Harvest Codes:	Data Source:	User

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: CAB Native Coronary Disease Loca	tion 09	SeqNo: 3195
Short Name: CABDisLoc09		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
Definition: Indicate the native coronary disease loo	cation.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 09	Format:	Text (categorical values specified by STS)
ParentShortName: CAB09	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Left Main		
2 Proximal LAD		
3 Mid LAD		
4 Distal LAD		
5 Diagonal 1		
6 Diagonal 2		
7 Circumflex		
8 OM 1		
9 OM 2		
10 OM 3		
11 RCA		
12 PDA		
13 PLB		
14 AM branches		
15 Ramus		

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: CAB Highest Percent Stenosis In	Native Vessel 09		SeqNo:	3200
Short Name: CABPctSten09			Core:	No
Section Name: Coronary Bypass			Harvest:	No
DBTableName AdultData				
Definition: Indicate the highest percentage of s	tenosis found in the	native vessel.		
LowValue: 1 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: CAB 09	Format:	Integer		
ParentShortName: CAB09	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Long Name: CAB Previous Conduit 09			SeqNo:	3205
Short Name: CABPrevCon09			Core:	No
Section Name: Coronary Bypass			Harvest:	No
DBTableName AdultData				
Definition: Indicate presence of coronary artery	y bypass conduit for	this vessel and wheth	ner or not it is dis	eased.
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB 09	Format:	Text (categorical va	lues specified by	STS)
ParentShortName: CAB09	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Harvest Codes: <u>Code:</u> <u>Value:</u>				
Code: Value:				

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: CAB Distal Site 09	<i>SeqNo:</i> 3210
Short Name: CABDistSite09	Core: Yes
Section Name: Coronary Bypass	Harvest: Yes
DBTableName AdultData	

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	CAB 09	Format:	Text (categorical values specified by STS)
ParentShortName:	CAB09	DataLength:	
ParentValue:	="Yes"	Data Source:	User
ParentHarvestCodes	: 1		

Code:	Value:	Definition:
15	Left Main	Left Main
5	Prox LAD	Proximal Left Anterior Descending
6	Mid LAD	Middle Left Anterior Descending
7	Distal LAD	Distal Left Anterior Descending
8	Diagonal 1	First Diagonal
9	Diagonal 2	Second Diagonal
16	Diagonal 3	Third Diagonal
17	Circumflex	Circumflex
11	Obtuse Marginal 1	First Obtuse Marginal
12	Obtuse Marginal 2	Second Obtuse Marginal
13	Obtuse Marginal 3	Third Obtuse Marginal
10	Ramus	Ramus Intermedius
1	RCA	Right Coronary Artery
2	Acute Marginal (AM)	Acute Marginal
3	Posterior Descending (PDA)	Posterior Descending Artery
4	Posterolateral (PLB)	Posterolateral Branch
14	Other	Any other site

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: CAB Distal Technique 09		SeqNo: 3215
Short Name: CABDistTech09		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
Definition: Indicate technique used for distal anaste	omosis.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 09	Format:	Text (categorical values specified by STS)
ParentShortName: CAB09	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Running		
2 Interrupted		
•		
3 Clips		
4 Anastomotic Device		
Long Name: CAB Proximal Site 09		<i>SeqNo:</i> 3220
Short Name: CABProximalSite09		Core: Yes
Section Name: Coronary Bypass		Harvest: Yes
DBTableName AdultData		
Definition: Indicate proximal site of the bypass gra	ft.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 09	Format:	Text (categorical values specified by STS)
ParentShortName: CAB09	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
<u>Code:</u> <u>Value:</u>		
1 In Situ Mammary		
2 Ascending aorta		
3 Descending aorta		
-		
<u> </u>		
5 Innominate artery		
6 T-graft off SVG		
7 T-graft off Radial		

- 8 T-graft off LIMA
- 9 T-graft off RIMA
- 10 Natural Y vein graft
- 11 Other

Long Name: CAB Proximal Technique 09		SeqNo: 322
Short Name: CABProxTech09		Core: N
Section Name: Coronary Bypass		Harvest: N
DBTableName AdultData		
Definition: Indicate technique used for proximal an	astomosis.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 09	Format:	Text (categorical values specified by STS)
ParentShortName: CAB09	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
5 In Situ Mammary		
1 Running		
2 Interrupted		
3 Anastomotic Device		
4 Anastomotic Assist Device		
Long Name: CAB Conduit 09		SeqNo: 323
Short Name: CABConduit09		Core: Ye
Section Name: Coronary Bypass		Harvest: Ye
DBTableName AdultData		
Definition: Indicate the conduit type used.		
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 09	Format:	Text (categorical values specified by STS)
ParentShortName: CAB09	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Vein graft		

- In Situ LIMA
 In Situ RIMA
- 4 Free IMA
- 5 Radial artery
- 6 Other arteries, homograft
- 7 Synthetic graft

Long Name: CAB Distal Position 09		SeqNo: 3235
Short Name: CABDistPos09		Core: Yes
Section Name: Coronary Bypass		Harvest: Yes
DBTableName AdultData		
Definition: Indicate anastomotic position.		
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 09	Format:	Text (categorical values specified by STS)
ParentShortName: CAB09	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 End to side		
2 Sequential (side to side)		
Long Name: CAB Endarterectomy 09		SeqNo: 3240
Short Name: CABEndArt09		Core: Yes
Section Name: Coronary Bypass		Harvest: Yes
DBTableName AdultData		
Definition: Indicate whether endarterectomy was per	rformed.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 09	Format:	Text (categorical values specified by STS)
ParentShortName: CAB09	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
ParentHarvestCodes: 1 Harvest Codes:		
Harvest Codes:		

Long Name: CAB Hybrid PCI 09		SeqNo: 3245
Short Name: CABHyPCI09		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
<i>Definition:</i> Indicate whether hybrid PCI (Percutaneo conjunction with this graft.	ous Coronary Ir	ntervention) procedure was performed in
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 09	Format:	Text (categorical values specified by STS)
ParentShortName: CAB09	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
<u> </u>		
2 Angioplasty		
3 Stent		
Long Name: CAB 10		<i>SeqNo:</i> 3250
Short Name: CAB10		Core: Yes
Section Name: Coronary Bypass		Harvest: Yes
DBTableName AdultData		
Definition: Indicate whether a tenth Coronary Artery	y Bypass graft	was done.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 09	Format:	Text (categorical values specified by STS)
ParentShortName: CAB09	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: CAB Native Coronary Disease Loca	tion 10	<i>SeqNo:</i> 3255
Short Name: CABDisLoc10		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
Definition: Indicate the native coronary disease loc	cation.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 10	Format:	Text (categorical values specified by STS)
ParentShortName: CAB10	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	· User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Left Main		
2 Proximal LAD		
3 Mid LAD		
4 Distal LAD		
5 Diagonal 1		
6 Diagonal 2		
7 Circumflex		
8 OM 1		
9 OM 2		
10 OM 3		
11 RCA		
12 PDA		
13 PLB		
14 AM branches		
15 Ramus		

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: CAB Highest Percent Stenosis In	Native Vessel 10		SeqNo:	3260
Short Name: CABPctSten10			Core:	No
Section Name: Coronary Bypass			Harvest:	No
DBTableName AdultData				
Definition: Indicate the highest percentage of s	tenosis found in the	native vessel.		
LowValue: 1 UsualRangeLow:				
HighValue: 100 UsualRangeHigh:				
Parent Long Name: CAB 10	Format:	Integer		
ParentShortName: CAB10	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Long Name: CAB Previous Conduit 10			SeqNo:	3265
Short Name: CABPrevCon10			Core:	No
Section Name: Coronary Bypass			Harvest:	No
DBTableName AdultData				
Definition: Indicate presence of coronary artery	v bypass conduit for	this vessel and whet	her or not it is dis	eased.
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB 10	Format:	Text (categorical v	alues specified by	STS)
ParentShortName: CAB10	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
<u>code.</u> <u>value.</u>				
1 Yes - Diseased				

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: CAB Distal Site 10	<i>SeqNo:</i> 3270
Short Name: CABDistSite10	Core: Yes
Section Name: Coronary Bypass	Harvest: Yes
DBTableName AdultData	

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	CAB 10	Format:	Text (categorical values specified by STS)
ParentShortName:	CAB10	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCodes	s: 1		

Code:	Value:	Definition:
15	Left Main	Left Main
5	Prox LAD	Proximal Left Anterior Descending
6	Mid LAD	Middle Left Anterior Descending
7	Distal LAD	Distal Left Anterior Descending
8	Diagonal 1	First Diagonal
9	Diagonal 2	Second Diagonal
16	Diagonal 3	Third Diagonal
17	Circumflex	Circumflex
11	Obtuse Marginal 1	First Obtuse Marginal
12	Obtuse Marginal 2	Second Obtuse Marginal
13	Obtuse Marginal 3	Third Obtuse Marginal
10	Ramus	Ramus Intermedius
1	RCA	Right Coronary Artery
2	Acute Marginal (AM)	Acute Marginal
3	Posterior Descending (PDA)	Posterior Descending Artery
4	Posterolateral (PLB)	Posterolateral Branch
14	Other	Any other site

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: CAB Distal Technique 10		<i>SeqNo:</i> 3275
Short Name: CABDistTech10		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
Definition: Indicate technique used for distal anaste	omosis.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 10	Format:	Text (categorical values specified by STS)
ParentShortName: CAB10	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Running		
2 Interrupted		
3 Clips		
4 Anastomotic Device		
Long Name: CAB Proximal Site 10		SeqNo: 3280
Short Name: CABProximalSite10		<i>Core:</i> Yes
Section Name: Coronary Bypass		Harvest: Yes
DBTableName AdultData		<i>Hurvest.</i> 105
<i>Definition:</i> Indicate proximal site of the bypass graf	ቡ	
· · · · ·	ι.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh: Parent Long Name: CAB 10	Format:	Text (categorical values specified by STS)
ParentShortName: CAB10		Text (categorical values specified by 515)
ParentValue: = "Yes"	DataLength: Data Source:	User
ParentHarvestCodes: 1	Dala Source.	Usei
Harvest Codes:		
<u>Code:</u> <u>Value:</u>		
1 In Situ Mammary		
2 Ascending aorta		
3 Descending aorta		
4 Subclavian artery		
5 Innominate artery		
6 T-graft off SVG		
7 T-graft off Radial		

- 8 T-graft off LIMA
- 9 T-graft off RIMA
- 10 Natural Y vein graft
- 11 Other

Long Name: CAB Proximal Technique 10		SeqNo: 3285
Short Name: CABProxTech10		Core: No
Section Name: Coronary Bypass		Harvest: No
DBTableName AdultData		
Definition: Indicate technique used for proximal an	astomosis.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 10	Format:	Text (categorical values specified by STS)
ParentShortName: CAB10	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
5 In Situ Mammary		
1 Running		
2 Interrupted		
3 Anastomotic Device		
4 Anastomotic Assist Device		
Long Name: CAB Conduit 10		SeqNo: 3290
Short Name: CABConduit10		<i>Core:</i> Yes
Section Name: Coronary Bypass		Harvest: Yes
DBTableName AdultData		
Definition: Indicate the conduit type used.		
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: CAB 10	Format:	Text (categorical values specified by STS)
ParentShortName: CAB10	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
<u>Code:</u> <u>Value:</u>		
1 Vein graft		

- In Situ LIMA
 In Situ RIMA
- 4 Free IMA
- 5 Radial artery
- 6 Other arteries, homograft
- 7 Synthetic graft

Long Name: CAB Distal Position 10			SeqNo:	3295
Short Name: CABDistPos10			Core:	Yes
Section Name: Coronary Bypass			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate anastomotic position.				
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB 10	Format:	Text (categorical value	s specified by	STS)
ParentShortName: CAB10	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 End to side				
2 Sequential (side to side)				
Long Name: CAB Endarterectomy 10			SeqNo:	3300
Short Name: CABEndArt10			Core:	Yes
Section Name: Coronary Bypass			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether endarterectomy was pe	rformed.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: CAB 10	Format:	Text (categorical value	s specified by	STS)
ParentShortName: CAB10	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

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Long Name: CAB Hybrid PCI 10		SeqN	<i>o</i> : 3305
Short Name: CABHyPCI10		Co	re: No
Section Name: Coronary Bypass		Harvest	t: No
DBTableName AdultData			
<i>Definition:</i> Indicate whether hybrid PCI (Percuta conjunction with this graft.	aneous Coronary In	tervention) procedure was perfor	med in
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:			
Parent Long Name: CAB 10	Format:	Text (categorical values specifie	d by STS)
ParentShortName: CAB10	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 No			
2 Angioplasty			
3 Stent			
Long Name: Valve Prosthesis Explant		SeqN	<i>o</i> : 3310
Short Name: ValExp		Co	
Section Name: Valve Surgery		Harvest	t: Yes
DBTableName AdultData			
Definition: Indicate whether a prosthetic valve o	or annuloplasty was	explanted during this procedure.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Valve	Format:	Text (categorical values specifie	ed by STS)
ParentShortName: OpValve	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Cardiac Surgery Database		Version:	2.81
Long Name: Valve Prosthesis Explant Position		SeqNo:	331
Short Name: ValExpPos		Core:	Ye
Section Name: Valve Surgery		Harvest:	Ye
DBTableName AdultData			
Definition: Indicate the location of the first explan	nted prosthetic val	lve or annuloplasty device.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Valve Prosthesis Explant	Format:	Text (categorical values specified by S	TS)
ParentShortName: ValExp	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Aortic			
2 Mitral			
3 Tricuspid			
4 Pulmonic			
Level Marine Malant Evaluate Trans		C <i>N</i>	222
Long Name: Valve Explant Type		1	332(
Short Name: ValExpTyp Section Name: Valve Surgery		Core: Harvest:	Ye Ye
DBTableName AdultData		nurvest.	10
Definition: Indicate the first type of valve device of	explanted or enter	unknown	
	explained of enter		
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:			
Parent Long Name: Valve Prosthesis Explant	Format:	Text (categorical values specified by S'	TS)
ParentShortName: ValExp	DataLength:	Tent (eurogeneur values speemeu of s	10)
ParentValue: = "Yes"	Data Source:	User	
ParentHarvestCodes: 1	Duna Source.		
Harvest Codes:			
<u>Code:</u> Value:			
2 Mechanical Valve			
5 Leaflet clip			
3 Bioprosthetic Valve			
6 Transcatheter Device			
7 Homograft			
7 Homograft9 Other			

STS Adult Cardiac Surgery Database

1 Unknown

<i>Long Name:</i> Valve Explant Etiology		SeqNo: 3
Short Name: ValExpEt		Core:
Section Name: Valve Surgery		Harvest:
DBTableName AdultData		
Definition: Indicate the primary reason for expla	anting valve device.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
0 0 0	Format:	Text (categorical values specified by STS
HighValue:UsualRangeHigh:Parent Long Name:Valve Prosthesis ExplantParentShortName:ValExp	Format: DataLength:	Text (categorical values specified by STS

Harvest Codes:

- 1 Endocarditis
- 2 Failed repair
- 3 Hemolysis
- 4 Incompetence
- 5 Pannus
- 6 Para-valvular leak
- 7 Prosthetic deterioration
- 8 Sizing/positioning issue
- 9 Stenosis
- 10 Thrombosis
- 11 Other
- 12 Unknown

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Valve Explant Device Known		<i>SeqNo:</i> 3330
Short Name: ValExpDevKnown		Core: Yes
Section Name: Valve Surgery		Harvest: Yes
DBTableName AdultData		
Definition: Indicate whether the type of explanted w	valve device is k	znown.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Valve Prosthesis Explant	Format:	Text (categorical values specified by STS)
ParentShortName: ValExp	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
<u>Code:</u> <u>Value:</u>		
1 Yes		
2 No		
Long Name: Valve Explant Device		<i>SeqNo:</i> 3335
Short Name: ValExpDev		<i>Core:</i> Yes
Section Name: Valve Surgery		Harvest: Yes
DBTableName AdultData		
Definition: Indicate the model number of the first p	rosthesis explan	nted.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Valve Explant Device Known	Format:	Text (categorical values specified by STS)
ParentShortName: ValExpDevKnown	DataLength:	
ParentValue: = "Yes"	Data Source:	User
ParentHarvestCodes: 1		

STS Adult Cardiac Surgery Database		Versio	n: 2.81
Long Name: Valve Explant Unique Device Identif	ier (UDI)	SeqNo:	3340
Short Name: ValExpUDI		Core:	Yes
Section Name: Valve Surgery		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the device UDI if available, oth	erwise leave blank.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Valve Explant Device Known	Format: Text		
ParentShortName: ValExpDevKnown	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source: User		
ParentHarvestCodes: 1			

Long Name: Valve I	Explant Manufacturer			SeqNo:	3345
Short Name: ValEx	pMan			Core:	No
Section Name: Valve S	Surgery			Harvest:	No
DBTableName AdultI	Data				
Definition: Indicate t	he name of the manufacturer of	the first prosth	esis explanted.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name: V	Valve Prosthesis Explant	Format:	Text (categorical values	s specified by	STS)
ParentShortName: Va	alExp	DataLength:			
ParentValue: =	"Yes"	Data Source:	User		
ParentHarvestCodes:	1				
Harvest Codes:					
Code:	Value:				
1	None (Homograft or Pulmonary Autograft)				
2	ATS				
3	Baxter				
4	Biocore				
5	Björk-Shiley				
6	CarboMedics				
7	Carpentier-Edwards				
8	Cosgrove-Edwards				
9	Cryolife				
10	Cryolife O'Brien				
11	Edwards				

or of radii Caralao Car	gory Database	1010101	1. 2.01
12	Genesee		
13	Hancock		
14	Ionescu-Shiley		
15	Labcor		
16	LifeNet		
17	Lillehei-Kaster		
18	MCRI		
19	Medtronic		
20	Medtronic Colvin Galloway		
21	Medtronic-Duran		
22	Medtronic-Hall		
23	Mitroflow		
24	OmniCarbon		
25	OmniScience		
26	Sorin		
27	Sorin-Puig		
28	St. Jude Medical		
29	St. Jude Tailor		
30	Starr-Edwards		
31	Ultracor		
98	Unknown		
99	Other		
Long Name: Secon	d Valve Prosthesis Explant	SeqNo:	3350
Short Name: ValEx	xp2	Core:	Yes
Section Name: Valve	Surgery	Harvest:	Yes

DBTableName AdultData

Definition: Indicate whether a second prosthetic valve or annuloplasty was explanted during this procedure.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Valve Prosthesis Explant	Format:	Text (categorical values specified by STS)
ParentShortName:	ValExp	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCode	s: 1		
Harvest Code	s:		
Cod	e: <u>Value:</u>		
	1 Yes		
	2 No		

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Second Valve Prosthesis Expla	nt Postion SeqNo: 3355
Short Name: ValExpPos2	Core: Yes
Section Name: Valve Surgery	Harvest: Yes
DBTableName AdultData	
Definition: Indicate the location of the second	d explanted prosthetic valve or annuloplasty.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Second Valve Prosthesis Explant	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: ValExp2	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes:	
<u>Code:</u> <u>Value:</u>	
1 Aortic	
2 Mitral	
3 Tricuspid	
4 Pulmonic	
Long Name: Second Valve Explant Type	SeqNo: 3360
Short Name: ValExpTyp2	Core: Yes
Section Name: Valve Surgery	Harvest: Yes
DBTableName AdultData	
Definition: Indicate the second type of valve	device explanted or enter unknown.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Second Valve Prosthesis Explant	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: ValExp2	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes:	
Code: Value:	
2 Mechanical Valve	
5 Leaflet clip	
3 Bioprosthetic Valve	
6 Transcatheter Device	
7 Homograft	

STS Adult Cardiac Surgery Database

9	Other	

- 4 Annuloplasty Device
- 1 Unknown

Long Name:	Second Valve Explant Etiology	SeqNo:	3365
Short Name:	ValExpEt2	Core:	Yes
Section Name.	· Valve Surgery	Harvest:	Yes
DBTableNam	e AdultData		

Definition: Indicate the primary reason for explanting valve device.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Second Valve Prosthesis Explant	Format:	Text (categorical values specified by STS)
ParentShortName:	ValExp2	DataLength:	
ParentValue:	= "Yes"	Data Source:	User

ParentHarvestCodes: 1

Harvest Codes:

- 1 Endocarditis
- 2 Failed repair
- 3 Hemolysis
- 4 Incompetence
- 5 Pannus Formation
- 6 Para-valvular leak
- 7 Prosthetic deterioration
- 8 Sizing/positioning issue
- 9 Stenosis
- 10 Thrombosis
- 11 Other
- 12 Unknown

Long Name:Second Valve Explant Device KnownSeqNo:Short Name:ValExpDevKnown2Core:Section Name:Valve SurgeryHarvest:DBTableNameAdultDataDefinition:Indicate whether the type of explanted valve device is known.LowValue:UsualRangeLow:UsualRangeLow:HighValue:UsualRangeHigh:Format:Text (categorical values specified by Second Valve Prosthesis ExplantParentShortName:ValExp2DataLength:	3370 Yes Yes
Section Name: Valve Surgery Harvest: DBTableName AdultData Definition: Indicate whether the type of explanted valve device is known. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Second Valve Prosthesis Format: Text (categorical values specified by Second Valve Prosthesis	Yes
DBTableName AdultData Definition: Indicate whether the type of explanted valve device is known. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Second Valve Prosthesis Format: Text (categorical values specified by Second Valve Prosthesis	
Definition: Indicate whether the type of explanted valve device is known. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Second Valve Prosthesis Format: Text (categorical values specified by Second Valve Prosthesis	STS)
LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Second Valve Prosthesis Format: Text (categorical values specified by SER) Explant Format: Text (categorical values specified by SER)	STS)
HighValue: UsualRangeHigh: Parent Long Name: Second Valve Prosthesis Format: Text (categorical values specified by S Explant	STS)
Parent Long Name: Second Valve Prosthesis Format: Text (categorical values specified by S Explant	STS)
Explant	STS)
ParentShortName: ValExp2 DataLength:	
ParentValue: = "Yes" Data Source: User	
ParentHarvestCodes: 1	
Harvest Codes:	
Code: Value:	
1 Yes	
2 No	
Long Name: Second Valve Explant Device SeqNo:	3375
Short Name: ValExpDev2 Core:	Yes
Section Name: Valve Surgery Harvest:	Yes
DBTableName AdultData	
Definition: Indicate the model number of the second prosthesis explanted.	
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Second Valve Explant Device Format: Text (categorical values specified by S Known	TS)
ParentShortName: ValExpDevKnown2 DataLength:	
ParentValue: = "Yes" Data Source: User	
ParentHarvestCodes: 1	

STS Adult Cardiac Surgery Database		Versio	n: 2.81
Long Name: Second Valve Explant Device Unique	e Device Identifier (UDI)	SeqNo:	3380
Short Name: ValExpDevUDI		Core:	Yes
Section Name: Valve Surgery		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the device UDI if available, oth	erwise leave blank.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Second Valve Explant Device Known	Format: Text		
ParentShortName: ValExpDevKnown2	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source: User		
ParentHarvestCodes: 1			

Long Name: Second	d Valve Explant Manufacturer			SeqNo:	3385
Short Name: ValEx	pMan2			Core:	No
Section Name: Valve	Surgery			Harvest:	No
DBTableName Adult	Data				
Definition: Indicate	the name of the manufacturer of	the second pro	sthesis explanted.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
	Second Valve Prosthesis Explant	Format:	Text (categorical values	s specified by	STS)
ParentShortName: V	/alExp2	DataLength:			
ParentValue: =	"Yes"	Data Source:	User		
ParentHarvestCodes:	1				
Harvest Codes:					
Code:	Value:				
1	None (Homograft or Pulmonary Autograft)				
2	ATS				
3	Baxter				
4	Biocore				
5	Björk-Shiley				
6	CarboMedics				
7	Carpentier-Edwards				
8	Cosgrove-Edwards				
9	Cryolife				
10	Cryolife O'Brien				

STS Adult Cardiac Sur	gery Database	Version: 2.81
11	Edwards	
12	Genesee	
13	Hancock	
14	Ionescu-Shiley	
15	Labcor	
16	LifeNet	
17	Lillehei-Kaster	
18	MCRI	
19	Medtronic	
20	Medtronic Colvin Galloway	
21	Medtronic-Duran	
22	Medtronic-Hall	
23	Mitroflow	
24	OmniCarbon	
25	OmniScience	
26	Sorin	
27	Sorin-Puig	
28	St. Jude Medical	
29	St. Jude Tailor	
30	Starr-Edwards	
31	Ultracor	
98	Unknown	
99	Other	
ũ.	ortic Valve	<i>SeqNo:</i> 3390
Short Name: VSAV		Core: Yes
Section Name: Valve		Harvest: Yes

DBTableName AdultData

Definition: Indicate whether an aortic valve procedure was performed.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Valve	Format:	Text (categorical values specified by STS)
ParentShortName: C	D pValve	DataLength:	
ParentValue: =	"Yes"	Data Source:	User
ParentHarvestCodes:	1		
Harvest Codes:			
Code:	Value:		
3	Yes, planned		

Core:

Harvest:

Yes

Yes

VS-A	ortic Valve Procedure	SeqNo:	3395
2	No		
5	Yes, unplanned due to unsuspected disease or anatomy		
4	Yes, unplanned due to surgical complication		

Short Name: VS	SAVPr
----------------	-------

Long Name:

DBTableName AdultData

Definition: Indicate the type of procedure that was performed on the aortic valve and/or ascending aorta.

LowValue: HighValue:	UsualRangeLow: UsualRangeHigh:		
Parent Long Name:	VS-Aortic Valve	Format:	Text (categorical values specified by STS)
ParentShortName:	VSAV	DataLength:	
ParentValue:	= "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	Data Source:	User
	21415		

ParentHarvestCodes: 3|4|5

Harvest Codes:

- 1 Replacement
- 2 Repair / Reconstruction
- 3 Root Replacement with valved conduit (Bentall)
- 13 Replacement AV and insertion aortic non-valved conduit in supra-coronary position
- 14 Replacement AV and major root reconstruction/debridement with valved conduit
- 5 Resuspension AV without replacement of ascending aorta
- 6 Resuspension AV with replacement of ascending aorta
- 7 Apico-aortic conduit (Aortic valve bypass)

8 Autograft with pulmonary valve (Ross procedure)			
9 Homograft root replacement			
10 Valve sparing root reimplantation (David)			
11 Valve sparing root remodeling (Yacoub)			
15 Valve sparing root reconstruction (Florida Sleeve)			
Long Name: VS-Aortic Transcatheter Valve Repl	acement	SeqNo:	3400
Short Name: VSTCV		Core:	Ye
Section Name: Valve Surgery		Harvest:	Ye
DBTableName AdultData			
Definition: Indicate whether the aortic valve replace	cement was done	using a transcatheter valve device.	
	cement was done	using a transcatheter valve device.	
LowValue: UsualRangeLow:	cement was done	using a transcatheter valve device.	
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:	cement was done Format:	using a transcatheter valve device. Text (categorical values specified b	y STS)
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:VS-Aortic Valve Procedure			y STS)
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:VS-Aortic Valve Procedure	Format:	Text (categorical values specified b	y STS)
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:VS-Aortic Valve ProcedureParentShortName:VSAVPrParentValue:= "Replacement"	Format: DataLength:	Text (categorical values specified b	y STS)
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:VS-Aortic Valve ProcedureParentShortName:VSAVPrParentValue:= "Replacement"	Format: DataLength:	Text (categorical values specified b	y STS)
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:VS-Aortic Valve ProcedureParentShortName:VSAVPrParentValue:= "Replacement"ParentHarvestCodes:1	Format: DataLength:	Text (categorical values specified b	y STS)
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:VS-Aortic Valve ProcedureParentShortName:VSAVPrParentValue:= "Replacement"ParentHarvestCodes:1Harvest Codes:1	Format: DataLength:	Text (categorical values specified b	y STS)

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: VS-Transcatheter Valve Replac	ement Approach SeqNo: 340
Short Name: VSTCVR	Core: Ye
Section Name: Valve Surgery	Harvest: Ye
DBTableName AdultData	
Definition: Indicate transcatheter valve replace	ement approach.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: VS-Aortic Transcatheter Valve Replacement	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: VSTCV	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes:	
Code: Value:	
1 Transapical	
2 Transaxillary	
3 Transfemoral	
4 Transaortic	
5 Subclavian	
6 Other	
Leve New VC A artic Value Densin Com	nissural Annuloplasty SeaNo: 341
Long Name: VS-Aortic Valve Repair - Com Short Name: VSAVRComA	nissural Annuloplasty SeqNo: 341 Core: Ye
Section Name: Valve Surgery	Harvest: Ye
DBTableName AdultData	nurvest. iv
	anoir procedure included a commissional annulon laste
	epair procedure included a commissural annuloplasty.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh: Parent Long Name: VS-Aortic Valve Procedu	re <i>Format:</i> Text (categorical values specified by STS)
ParentShortName: VSAVPr	
ParentValue: = "Repair / Reconstruction	DataLength: "Data Source: User
ParentHarvestCodes: 2	Data source. Osci
Harvest Codes:	
Code: Value:	
1 Yes	
2 No	

STS Adult Cardiac Surgery Database				n: 2.81
Long Name: VS-Aortic Valve Repair - Leaflet Pl	ication		SeqNo:	341:
Short Name: VSAVRLPlic			Core:	Ye
Section Name: Valve Surgery			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the aortic valve repair	r procedure inclu	ded leaflet plication.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VS-Aortic Valve Procedure	Format:	Text (categorical value	es specified by	STS)
ParentShortName: VSAVPr	DataLength:			
<i>ParentValue:</i> = "Repair / Reconstruction"	Data Source:	User		
ParentHarvestCodes: 2				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
•	ee Edge Reinforc	ement (PTFE) Suture	SeqNo:	
Short Name: VSAVRPTFE	ee Edge Reinforc	ement (PTFE) Suture	SeqNo: Core: Harvest:	Ye
•	ee Edge Reinforc	ement (PTFE) Suture	Core:	Ye
Short Name: VSAVRPTFE Section Name: Valve Surgery			Core: Harvest:	Ye: Ye:
Short Name: VSAVRPTFE Section Name: Valve Surgery DBTableName AdultData Definition: Indicate whether the aortic valve repair			Core: Harvest:	Ye: Ye:
Short Name: VSAVRPTFE Section Name: Valve Surgery DBTableName AdultData Definition: Indicate whether the aortic valve repair suture. LowValue: UsualRangeLow:			Core: Harvest:	Ye: Ye:
Short Name: VSAVRPTFE Section Name: Valve Surgery DBTableName AdultData Definition: Indicate whether the aortic valve repair suture. LowValue: UsualRangeLow: HighValue: UsualRangeHigh:			Core: Harvest: nforcement (P	Ye: Ye: TFE)
Short Name: VSAVRPTFE Section Name: Valve Surgery DBTableName AdultData Definition: Indicate whether the aortic valve repair suture. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: VS-Aortic Valve Procedure	r procedure inclue	ded leaflet free edge rei	Core: Harvest: nforcement (P	Ye: Ye: TFE)
Short Name: VSAVRPTFE Section Name: Valve Surgery DBTableName AdultData Definition: Indicate whether the aortic valve repair suture. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: VS-Aortic Valve Procedure ParentShortName: VSAVPr	r procedure inclue Format:	ded leaflet free edge rei Text (categorical value	Core: Harvest: nforcement (P	Ye Ye TFE)
Short Name: VSAVRPTFE Section Name: Valve Surgery DBTableName AdultData Definition: Indicate whether the aortic valve repairs suture. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: VS-Aortic Valve Procedure ParentShortName: VSAVPr ParentValue: = "Repair / Reconstruction"	r procedure inclue Format: DataLength:	ded leaflet free edge rei Text (categorical value	Core: Harvest: nforcement (P	Ye: Ye: TFE)
Short Name: VSAVRPTFE Section Name: Valve Surgery DBTableName AdultData Definition: Indicate whether the aortic valve repairs suture. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: VS-Aortic Valve Procedure ParentShortName: VSAVPr ParentValue: = "Repair / Reconstruction"	r procedure inclue Format: DataLength:	ded leaflet free edge rei Text (categorical value	Core: Harvest: nforcement (P	
Short Name: VSAVRPTFE Section Name: Valve Surgery DBTableName AdultData Definition: Indicate whether the aortic valve repair suture. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: VS-Aortic Valve Procedure ParentShortName: VSAVPr ParentValue: = "Repair / Reconstruction" ParentHarvestCodes: 2	r procedure inclue Format: DataLength:	ded leaflet free edge rei Text (categorical value	Core: Harvest: nforcement (P	Ye: Ye: TFE)
Short Name: VSAVRPTFE Section Name: Valve Surgery DBTableName AdultData Definition: Indicate whether the aortic valve repair suture. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: VS-Aortic Valve Procedure ParentShortName: VSAVPr ParentValue: = "Repair / Reconstruction" ParentHarvestCodes: 2 Harvest Codes:	r procedure inclue Format: DataLength:	ded leaflet free edge rei Text (categorical value	Core: Harvest: nforcement (P	Ye: Ye: TFE)

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: VS-Aortic Valve Repair - Leaflet Co	ommissural Resu	spension Suture	SeqNo:	342:
Short Name: VSAVRComRS			Core:	Ye
Section Name: Valve Surgery			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the aortic valve repair	procedure inclu	ded leaflet commissu	ral resuspension	suture.
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VS-Aortic Valve Procedure	Format:	Text (categorical va	lues specified by	STS)
ParentShortName: VSAVPr	DataLength:			
<i>ParentValue:</i> = "Repair / Reconstruction"	Data Source:	User		
ParentHarvestCodes: 2				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: VS-Aortic Valve Repair - Division of	of Fused Leaflet I	Raphe	SeqNo:	3430
Short Name: VSAVRRaphe			Core:	Yes
Section Name: Valve Surgery			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the aortic valve repair	procedure inclu	ded division of fused	leaflet raphe.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VS-Aortic Valve Procedure	Format:	Text (categorical va	lues specified by	STS)
ParentShortName: VSAVPr	DataLength:			
<i>ParentValue:</i> = "Repair / Reconstruction"	Data Source:	User		
ParentHarvestCodes: 2				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: VS-Aortic Valve Repair - Ring Annu	uloplasty		SeqNo:	343
Short Name: VSAVRRingA			Core:	Ye
Section Name: Valve Surgery			Harvest:	Ye
DBTableName AdultData				
Definition: Indicate whether the aortic valve repair	procedure inclu	ded a ring annuloplasty.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VS-Aortic Valve Procedure	Format:	Text (categorical value	es specified by	STS)
ParentShortName: VSAVPr	DataLength:			
<i>ParentValue:</i> = "Repair / Reconstruction"	Data Source:	User		
ParentHarvestCodes: 2				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: VS-Aortic Valve Repair - Leaflet Re	esection Suture		SeqNo:	3440
Short Name: VSAVRLResect			Core:	Yes
Section Name: Valve Surgery			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate whether the aortic valve repair	procedure inclu	ded leaflet resection.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:	_			
Parent Long Name: VS-Aortic Valve Procedure	Format:	Text (categorical value	s specified by	STS)
ParentShortName: VSAVPr	DataLength:			
<i>ParentValue:</i> = "Repair / Reconstruction"	Data Source:	User		
ParentHarvestCodes: 2				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database		Vers	ion: 2.81
Long Name: VS-Aortic Valve Repair - Leaflet Pe	ricardial Patch	SeqNo:	344
Short Name: VSAVRLPPatch		Core:	Ye
Section Name: Valve Surgery		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether the aortic valve repair	r procedure inclu	ded leaflet pericardial patch.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VS-Aortic Valve Procedure	Format:	Text (categorical values specified b	by STS)
ParentShortName: VSAVPr	DataLength:		
<i>ParentValue:</i> = "Repair / Reconstruction"	Data Source:	User	
ParentHarvestCodes: 2			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
Long Name: VS-Aortic Valve Repair - Leaflet De	ebridement	SeqNo:	3450
Short Name: VSAVRDeb		Core:	Yes
Section Name: Valve Surgery		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether the aortic valve repair	procedure inclu	ded leaflet debridement.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VS-Aortic Valve Procedure	Format:	Text (categorical values specified b	oy STS)
ParentShortName: VSAVPr	DataLength:		
<i>ParentValue:</i> = "Repair / Reconstruction"	Data Source:	User	
ParentHarvestCodes: 2			
Harvest Codes:			
Code: Value:			
<u>Code: Value:</u> 1 Yes			

STS Adult Cardiac S	urgery Database			Version	า: 2.81
Long Name: VS-	Aortic Valve Repair - Repair of	Periprosthetic Lo	eak	SeqNo:	3455
Short Name: VSA	AVRPeriLeak			Core:	Yes
Section Name: Valv	ve Surgery			Harvest:	Yes
DBTableName Ad	ultData				
Definition: Indica	te whether the aortic valve repair	procedure inclu	ded repair of a Peripro	sthetic leak.	
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
-	VS-Aortic Valve Procedure	Format:	Text (categorical value	ues specified by	STS)
ParentShortName:	VSAVPr	DataLength:			
ParentValue:	= "Repair / Reconstruction"	Data Source:	User		
ParentHarvestCode	<i>s</i> : 2				
Harvest Code	es:				
Coc	le: Value:				
	1 Yes				
	2 No				
	ultData te whether an annular enlargemen				Yes
	r enlargement is defined as incisi ar enlargement techniques includ		-		
				onno and micks	
LowValue:	UsualRangeLow:			onno and micks	l.
LowValue: HighValue:	UsualRangeLow: UsualRangeHigh:			onno and micks	l.
	UsualRangeHigh:	Format:	Text (categorical value		
HighValue:	UsualRangeHigh:	Format: DataLength:	Text (categorical value		
HighValue: Parent Long Name:	UsualRangeHigh: VS-Aortic Valve				
HighValue: Parent Long Name: ParentShortName:	UsualRangeHigh: VS-Aortic Valve VSAV = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	DataLength:			
HighValue: Parent Long Name: ParentShortName: ParentValue:	UsualRangeHigh: VS-Aortic Valve VSAV = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy" s: 3 4 5	DataLength:			
HighValue: Parent Long Name: ParentShortName: ParentValue: ParentHarvestCode Harvest Code	UsualRangeHigh: VS-Aortic Valve VSAV = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy" s: 3 4 5	DataLength:			
HighValue: Parent Long Name: ParentShortName: ParentValue: ParentHarvestCode Harvest Code <u>Coo</u>	UsualRangeHigh: VS-Aortic Valve VSAV = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy" s: 3 4 5	DataLength:			

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: VS-Resection of Sub-Aortic Stend	osis	<i>SeqNo:</i> 346
Short Name: ResectSubA		Core: N
Section Name: Valve Surgery		Harvest: N
DBTableName AdultData		
<i>Definition:</i> Indicate whether resection of sub-ao valve procedure.	ortic tissue was perfo	formed alone or in conjunction with an aortic
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:		
Parent Long Name: VS-Aortic Valve	Format:	Text (categorical values specified by STS)
ParentShortName: VSAV	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: VS-Aortic Implant		SeqNo: 347
Short Name: AorticImplant		Core: Ye
Section Name: Valve Surgery		Harvest: Ye
DBTableName AdultData		
<i>Definition:</i> Indicate whether an aortic valve or w	valve device was im	iplanted.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: VS-Aortic Valve	Format:	Text (categorical values specified by STS)
ParentShortName: VSAV	DataLength:	
<i>ParentValue:</i> = "Yes, planned", "Yes,		
unplanned due to surgical complication" or "Yes, unplanned due to unsuspecte disease or anatomy"	Data Source:	User
unplanned due to surgical complication" or "Yes, unplanned due to unsuspecte		User
unplanned due to surgical complication" or "Yes, unplanned due to unsuspecte disease or anatomy"		User
unplanned due to surgical complication" or "Yes, unplanned due to unsuspecte disease or anatomy" ParentHarvestCodes: 3 4 5		User
unplanned due to surgical complication" or "Yes, unplanned due to unsuspecte disease or anatomy" ParentHarvestCodes: 3 4 5 Harvest Codes:		User

STS Adult Cardiac Surgery Database		Version	: 2.81
Long Name: VS-Aortic Implant - Type		SeqNo:	3475
Short Name: AorticImplantTy		Core:	Yes
Section Name: Valve Surgery		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the type of aortic valve or va	alve device implan	ted.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VS-Aortic Implant	Format:	Text (categorical values specified by	STS)
ParentShortName: AorticImplant	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Mechanical valve			
2 Annuloplasty device			
3 Bioprosthetic valve			
4 Transcatheter device			
5 Homograft			
6 Other			
7 Autograft (Ross)			
Long Name: VS-Aortic Proc-Implant Model Nu	umber	SeqNo:	3480
Short Name: VSAoIm		Core:	Yes
Section Name: Valve Surgery		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate the name of the prosthesis in model number with "xx" substituting		es provided include the manufacturer's e.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VS-Aortic Implant	Format:	Text (categorical values specified by	STS)
ParentShortName: AorticImplant	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	

ParentHarvestCodes: 1

STS Adult Cardiac Surgery Database		Versio	n: 2.81
Long Name: VS-Aortic Proc-Imp-Size		SeqNo:	3485
Short Name: VSAoImSz		Core:	Yes
Section Name: Valve Surgery		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the Aortic implant size.			
LowValue: 5 UsualRangeLow: 10			
HighValue: 100 UsualRangeHigh: 40			
Parent Long Name: VS-Aortic Implant	Format: Integer		
ParentShortName: AorticImplant	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source: User		
ParentHarvestCodes: 1			
Long Name: VS-Aortic Proc-Imp - Unique De	vice Identifier (UDI)	SeqNo:	3490
Short Name: VSAoImUDI		Core:	Yes
Section Name: Valve Surgery		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the device UDI if available,	, otherwise leave blank.		
LowValue: UsualRangeLow:			
HighValuer UsualPanaeHigh			

HighValue:	UsualRangeHigh:		
Parent Long Name.	VS-Aortic Implant	Format:	Text
ParentShortName:	AorticImplant	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCode	es: 1		

STS Adult Cardiac Su	Irgery Database			Versio	n: 2.81
Long Name: VS-N	Mitral Valve			SeqNo:	3495
Short Name: VSN	ſV			Core:	Yes
Section Name: Valv	e Surgery			Harvest:	Yes
DBTableName Adu	ltData				
Definition: Indicate	e whether a mitral valve procedu	re was performe	ed.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:	Valve	Format:	Text (categorical value	es specified by	STS)
ParentShortName:	OpValve	DataLength:			
ParentValue:	= "Yes"	Data Source:	User		
ParentHarvestCodes	x: 1				
Harvest Code	s:				
Code	e: <u>Value:</u>				
3	3 Yes, planned				
2	Yes, unplanned due to surgical complication				
5	5 Yes, unplanned due to unsuspected disease or anatomy				
2	2 No				
Long Name: VS-N	Mitral Valve Procedure			SeqNo:	3500
Short Name: VSN	fVPr			Core:	Yes
Section Name: Valv	e Surgery			Harvest:	Yes
DBTableName Adu	ltData				
Definition: Indicate	e the type of procedure that was j	performed on th	e mitral valve.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:	VS-Mitral Valve	Format:	Text (categorical value	es specified by	STS)
ParentShortName:	VSMV	DataLength:			
	= "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	Data Source:	User		
ParentHarvestCodes	s: 3 4 5				
Harvest Code	s:				
Code	e: <u>Value:</u>				
1	l Repair				
1	ropun				

Long Name: VS-Mitral Valve Repair - Annulopla	sty	<i>SeqNo:</i> 3505
Short Name: VSMitRAnnulo		Core: Yes
Section Name: Valve Surgery		Harvest: Yes
DBTableName AdultData		
Definition: Indicate whether the mitral valve repair	procedure included an annu	lloplasty.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: VS-Mitral Valve Procedure	Format: Text (categ	gorical values specified by STS)
ParentShortName: VSMVPr	DataLength:	
<i>ParentValue:</i> = "Repair"	Data Source: User	
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: VS-Mitral Valve Repair - Leaflet Re	section	<i>SeqNo:</i> 3510
Short Name: VSMitRLeafRes		Core: Yes
Section Name: Valve Surgery		Harvest: Yes
DBTableName AdultData		
Definition: Indicate whether the mitral valve repair	procedure included a leaflet	t resection.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: VS-Mitral Valve Procedure	Format: Text (categ	gorical values specified by STS)
ParentShortName: VSMVPr	DataLength:	
ParentValue: = "Repair"	Data Source: User	
ParentHarvestCodes: 1		
Harvest Codes:		
<u>Code:</u> <u>Value:</u>		
<u>Code:</u> <u>Value:</u> 1 Yes		

STS Adult Cardiac Surgery Database		Version:	2.81
Long Name: VS-Mitral Leaflet Resection Type		SeqNo:	3515
Short Name: VSLeafResTyp		Core:	Yes
Section Name: Valve Surgery		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the type of leaflet resection.			
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VS-Mitral Valve Repair - Leaflet Resection	Format:	Text (categorical values specified by S	TS)
ParentShortName: VSMitRLeafRes	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Triangular			
2 Quadrangular			
3 Other			
Long Name: VS-Mitral Repair Location		SeqNo:	3520
Short Name: VSLeafRepLoc		Core:	Yes
Section Name: Valve Surgery		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether the repair involved the stitches do not make a bileaflet repair. A commissurotomy is a bileaflet repair.	anterior, poster	rior, or both leaflets. Commissural closur	re
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VS-Mitral Valve Repair - Leaflet Resection	Format:	Text (categorical values specified by S	STS)
ParentShortName: VSMitRLeafRes	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Anterior			

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: VS-Mitral Valve Repair - Leaflet Pl	ication		SeqNo:	3525
Short Name: VSMitRLeafPlic			Core:	Yes
Section Name: Valve Surgery			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the mitral valve repair	r procedure inclu	ded leaflet plication.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VS-Mitral Valve Procedure	Format:	Text (categorical value	es specified by	STS)
ParentShortName: VSMVPr	DataLength:			
ParentValue: = "Repair"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: VS-Mitral Valve Repair - Leaflet De	ebridement		SeqNo:	3530
Short Name: VSMitRLeafDeb			Core:	Yes
Section Name: Valve Surgery			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the mitral valve repai	r procedure inclu	ded leaflet debridement.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VS-Mitral Valve Procedure	Format:	Text (categorical value	es specified by	STS)
ParentShortName: VSMVPr	DataLength:			
ParentValue: = "Repair"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: VS-Mitral Valve Repair - Folding Pl	lasty		SeqNo:	3535
Short Name: VSMitRFold			Core:	Yes
Section Name: Valve Surgery			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the mitral valve repair	r procedure inclu	ded folding plasty.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VS-Mitral Valve Procedure	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: VSMVPr	DataLength:			
ParentValue: = "Repair"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
			~	
Long Name: VS-Mitral Valve Repair - Sliding Pla	asty		SeqNo:	3540
Short Name: VSMitRSlidP			Core:	Yes
Section Name: Valve Surgery			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate whether the mitral valve repair	r procedure inclu	ded a sliding plasty.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:	-			
Parent Long Name: VS-Mitral Valve Procedure	Format:	Text (categorical valu	ies specified by	STS)
ParentShortName: VSMVPr	DataLength:			
ParentValue: = "Repair"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database		Version	n: 2.81
Long Name: VS-Mitral Valve Repair - Annular D	Decalcification	SeqNo:	354
Short Name: VSMitRADecalc		Core:	Ye
Section Name: Valve Surgery		Harvest:	Ye
DBTableName AdultData			
Definition: Indicate whether the mitral valve repai	r procedure inclu	ded an annular decalcification.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VS-Mitral Valve Procedure	Format:	Text (categorical values specified by	STS)
ParentShortName: VSMVPr	DataLength:		
ParentValue: = "Repair"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
Long Name: VS-Mitral Valve Repair - Neochord	s (PTFE)	SeqNo:	355(
Short Name: VSMitRPTFE		Core:	Yes
Section Name: Valve Surgery		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether the mitral valve repai	r procedure inclu	ided neochords (PTFE).	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VS-Mitral Valve Procedure	Format:	Text (categorical values specified by	STS)
ParentShortName: VSMVPr	DataLength:		
<i>ParentValue:</i> = "Repair"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Cardiac S	urgery Database		Versi	on: 2.81
Long Name: VS-	Mitral Neochord Number		SeqNo:	3555
Short Name: VSI	NeoChNum		Core:	Yes
Section Name: Valv	ve Surgery		Harvest:	Yes
DBTableName Adu	ıltData			
Definition: Indica	te the number of neochords inse	rted - 1 neochord	is created from 1 double arm suture.	
LowValue: 1	UsualRangeLow:			
HighValue: 8	UsualRangeHigh:			
Parent Long Name:	VS-Mitral Valve Repair - Neochords (PTFE)	Format:	Integer	
ParentShortName:	VSMitRPTFE	DataLength:		
ParentValue:	= "Yes"	Data Source:	User	
ParentHarvestCode	<i>s</i> : 1			
-	Mitral Valve Repair - Chordal / MitRChord	Leaflet Transfer	SeqNo: Core:	3560 Yes
Short Name: VSI Section Name: Value DBTableName Add	MitRChord ve Surgery ultData		Core: Harvest:	
Short Name: VSI Section Name: Value DBTableName Add	MitRChord ve Surgery		Core: Harvest:	Yes
Short Name: VSI Section Name: Valv DBTableName Adu Definition: Indica LowValue: HighValue:	MitRChord /e Surgery ultData te whether the mitral valve repai UsualRangeLow:		Core: Harvest:	Yes Yes
Short Name: VSI Section Name: Valv DBTableName Adu Definition: Indica LowValue: HighValue:	MitRChord ye Surgery ultData te whether the mitral valve repai UsualRangeLow: UsualRangeHigh: VS-Mitral Valve Procedure	r procedure inclu	Core: Harvest: ded a chordal / leaflet transfer.	Yes Yes
Short Name: VSI Section Name: Valv DBTableName Adu Definition: Indica LowValue: HighValue: Parent Long Name:	MitRChord ye Surgery ultData te whether the mitral valve repai UsualRangeLow: UsualRangeHigh: VS-Mitral Valve Procedure	r procedure inclu Format:	Core: Harvest: ded a chordal / leaflet transfer. Text (categorical values specified b	Yes Yes
Short Name: VSI Section Name: Valv DBTableName Adv Definition: Indica LowValue: HighValue: Parent Long Name: ParentShortName:	MitRChord /e Surgery ultData te whether the mitral valve repair <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> VS-Mitral Valve Procedure VSMVPr = "Repair"	r procedure inclu Format: DataLength:	Core: Harvest: ded a chordal / leaflet transfer. Text (categorical values specified b	Yes Yes
Short Name: VSI Section Name: Valv DBTableName Adv Definition: Indica LowValue: HighValue: Parent Long Name: ParentShortName: ParentValue:	MitRChord /e Surgery ultData te whether the mitral valve repair <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> VS-Mitral Valve Procedure VSMVPr = "Repair" s: 1	r procedure inclu Format: DataLength:	Core: Harvest: ded a chordal / leaflet transfer. Text (categorical values specified b	Yes Yes
Short Name: VSI Section Name: Valv DBTableName Adu Definition: Indica LowValue: HighValue: Parent Long Name: ParentShortName: ParentValue: ParentHarvestCode Harvest Code	MitRChord /e Surgery ultData te whether the mitral valve repair <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> VS-Mitral Valve Procedure VSMVPr = "Repair" s: 1	r procedure inclu Format: DataLength:	Core: Harvest: ded a chordal / leaflet transfer. Text (categorical values specified b	Yes Yes
Short Name: VSI Section Name: Valv DBTableName Adu Definition: Indica LowValue: HighValue: Parent Long Name: ParentShortName: ParentValue: ParentHarvestCode Harvest Code	MitRChord ye Surgery ultData te whether the mitral valve repai <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> VS-Mitral Valve Procedure VSMVPr = "Repair" s: 1 es:	r procedure inclu Format: DataLength:	Core: Harvest: ded a chordal / leaflet transfer. Text (categorical values specified b	Yes Yes

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: VS-Mitral Valve Repair - Leaflet Ex	tension / Replace	ement / Patch	SeqNo:	3565
Short Name: VSMitRLeafERP			Core:	Yes
Section Name: Valve Surgery			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the mitral valve repai	r procedure inclu	ded a leaflet extension	on / replacement /	patch.
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VS-Mitral Valve Procedure	Format:	Text (categorical va	alues specified by	STS)
ParentShortName: VSMVPr	DataLength:			
ParentValue: = "Repair"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
			C N	2570
Long Name: VS-Mitral Valve Repair - Edge To I	Edge Repair		SeqNo:	3570 X
Short Name: VSMitREdge Section Name: Valve Surgery			Core: Harvest:	Yes Yes
			nui vesi.	105
DBTableName AdultData				
<i>Definition:</i> Indicate whether the mitral valve repai	r procedure inclu	ided an edge to edge	repair.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:	Format:	T	-1:C-11	ara)
Parent Long Name: VS-Mitral Valve Procedure		Text (categorical v	alues specified by	515)
ParentValue: - "Popoir"	DataLength: Data Source:	Llaar		
ParentValue: = "Repair" ParentHarvestCodes: 1	Duiu source:	0351		
Harvest Codes:				
<u>Code:</u> <u>Value:</u>				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database		Ver	sion: 2.81
Long Name: VS-Mitral Valve Repair - Mitral Lea	aflet Clip	SeqNo:	357
Short Name: VSMitRMLeafClip		Core	e: Yes
Section Name: Valve Surgery		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether the mitral valve proce	edure included lea	aflet clip(s).	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VS-Mitral Valve Procedure	Format:	Text (categorical values specified	by STS)
ParentShortName: VSMVPr	DataLength:		
ParentValue: = "Repair"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
Long Name: VS-Mitral Valve Repair - Mitral Con	mmissurotomy	SeqNo:	
Short Name: VSMitRMitComm		Core	
Section Name: Valve Surgery		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether the mitral valve repai	r procedure inclu	ded a mitral commissurotomy.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VS-Mitral Valve Procedure	Format:	Text (categorical values specified	by STS)
ParentShortName: VSMVPr	DataLength:		
<i>ParentValue:</i> = "Repair"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: VS-Mitral Valve Repair - Mitral Co	mmissuroplasty		SeqNo:	3585
Short Name: VSMitRMitCplasty			Core:	Yes
Section Name: Valve Surgery			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the mitral valve repair	r procedure inclu	ded a mitral commis	suroplasty.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VS-Mitral Valve Procedure	Format:	Text (categorical va	alues specified by	STS)
ParentShortName: VSMVPr	DataLength:			
ParentValue: = "Repair"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: VS-Mitral Valve Repair - Mitral Cle	eft Repair (Scallo	p Closure)	SeqNo:	3590
Short Name: VSMitRMitCleft			Core:	Yes
Section Name: Valve Surgery			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the mitral valve repai	r procedure inclu	ded a mitral cleft rep	pair.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VS-Mitral Valve Procedure	Format:	Text (categorical va	alues specified by	STS)
ParentShortName: VSMVPr	DataLength:			
ParentValue: = "Repair"	Data Source:	User		
ParentHarvestCodes: 1				
ParentHarvestCodes: 1 Harvest Codes:				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: VS-Mitral Valve Repair - Other Mit	ral Repair		SeqNo:	359:
Short Name: VSMitRMitOth			Core:	Ye
Section Name: Valve Surgery			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the mitral valve repair	r involved a tech	nique not listed above.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VS-Mitral Valve Procedure	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: VSMVPr	DataLength:			
ParentValue: = "Repair"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Less Marrie - MC Mitral Danaia Attaurated			S M	2600
Long Name: VS-Mitral Repair Attempted Short Name: MitralIntent			SeqNo: Core:	3600 Yes
Section Name: Valve Surgery			Harvest:	Yes
			1101 vest.	100
DBTableName AdultData		uion to the Mitual Males	Daulaaanaat	
<i>Definition:</i> Indicate whether a Mitral Valve Repair	r was attempted p	orior to the Miltrai valve	e Replacement.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:	E a mu att	Tout (asta asmissil usily		OTO)
Parent Long Name: VS-Mitral Valve Procedure	Format:	Text (categorical valu	es specified by	515)
ParentShortName: VSMVPr ParentValue: = "Poplacement"	DataLength:	User		
ParentValue: = "Replacement" ParentHarvestCodes: 2	Data Source:	0.501		
Harvest Codes:				
<u>Code: Value:</u>				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database			Versior	า: 2.81
Long Name: VS-Mitral Chordal Preservation			SeqNo:	360
Short Name: VSChorPres			Core:	Yes
Section Name: Valve Surgery		Н	arvest:	Yes
DBTableName AdultData				
Definition: Indicate whether native chords were pr	reserved.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VS-Mitral Valve Procedure	Format:	Text (categorical values sp	ecified by	STS)
ParentShortName: VSMVPr	DataLength:			
<i>ParentValue:</i> = "Replacement"	Data Source:	User		
ParentHarvestCodes: 2				
Harvest Codes:				
Code: Value:				
2 Anterior				
3 Posterior				
4 Both				
1 None				
Long Name: VS-Mitral Transcatheter Valve Repl	lacement		SeqNo:	3610
Short Name: VSTCVMit			Core:	Yes
Section Name: Valve Surgery		Н	arvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate whether the mitral valve repla	cement was done	e using a transcatheter valve	device.	
LowValue: UsualRangeLow:				
Elem runne. Elem elem.				
HighValue: UsualRangeHigh:				
HighValue:UsualRangeHigh:Parent Long Name:VS-Mitral Valve Procedure	Format:	Text (categorical values sp	ecified by	STS)
HighValue: UsualRangeHigh:	Format: DataLength:	Text (categorical values sp	ecified by	STS)
HighValue:UsualRangeHigh:Parent Long Name:VS-Mitral Valve Procedure			ecified by	STS)
HighValue:UsualRangeHigh:Parent Long Name:VS-Mitral Valve ProcedureParentShortName:VSMVPr	DataLength:		ecified by	STS)
HighValue:UsualRangeHigh:Parent Long Name:VS-Mitral Valve ProcedureParentShortName:VSMVPrParentValue:= "Replacement"	DataLength:		ecified by	STS)
HighValue:UsualRangeHigh:Parent Long Name:VS-Mitral Valve ProcedureParentShortName:VSMVPrParentValue:= "Replacement"ParentHarvestCodes:2	DataLength:		ecified by	STS)
HighValue:UsualRangeHigh:Parent Long Name:VS-Mitral Valve ProcedureParentShortName:VSMVPrParentValue:= "Replacement"ParentHarvestCodes:2Harvest Codes:	DataLength:		ecified by	STS)

STS Adult Cardiac Surgery Database	Version: 2	2.81
Long Name: VS-Mitral Implant	SeqNo:	3615
Short Name: MitralImplant	Core:	Yes
Section Name: Valve Surgery	Harvest:	Yes

DBTableName AdultData

Definition: Indicate whether a mitral valve or valve device was implanted.

LowValue: HighValue:	UsualRangeLow: UsualRangeHigh:		
Parent Long Name:	0 0	Format:	Text (categorical values specified by STS)
ParentShortName:	VSMV	DataLength:	
ParentValue:	= "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	Data Source:	User
ParentHarvestCode	s: 3 4 5		
Harvest Code	es:		

<u>Code:</u> <u>Value:</u>

- 1 Yes
- 2 No

Long Name:	VS-Mitral Implant - Type	SeqNo:	3620
Short Name:	MitralImplantTy	Core:	Yes
Section Name.	Valve Surgery	Harvest:	Yes

DBTableName AdultData

Definition: Indicate the type of mitral valve or valve device implanted.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	VS-Mitral Implant	Format:	Text (categorical values specified by STS)
ParentShortName:	MitralImplant	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCodes: 1			

Harvest Codes:

- 1 Mechanical valve
- 2 Mitral leaflet clip
- 3 Bioprosthetic valve
- 4 Transcatheter device
- 5 Annuloplasty device
- 6 Other

STS Adult Cardiac Surgery Database			Version	: 2.81
Long Name: VS-Mitral Proc-Implant Model Nu	umber	S	SeqNo:	3625
Short Name: VSMiIm			Core:	Yes
Section Name: Valve Surgery		На	rvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate the model number of the demodel number with "xx" substituting	1	1	manufactu	urer's
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VS-Mitral Implant	Format:	Text (categorical values spe	ecified by S	STS)
ParentShortName: MitralImplant	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Long Name: VS-Mitral Proc-Imp-Size		S	SeqNo:	3630
Short Name: VSMiImSz			Core:	Yes
Section Name: Valve Surgery		На	rvest:	Yes
DBTableName AdultData				
Definition: Indicate the Mitral implant size.				
LowValue: 5 UsualRangeLow: 10				

HighValue: 100	UsualRangeHigh:	40		
Parent Long Name:	VS-Mitral Implant		Format:	Integer
ParentShortName:	MitralImplant		DataLength:	
ParentValue:	= "Yes"		Data Source:	User
ParentHarvestCode	<i>es:</i> 1			

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: VS-Mitral Proc-Imp-Unique Device	e Identifier (UDI)	<i>SeqNo:</i> 3635
Short Name: VSMiImUDI		Core: Yes
Section Name: Valve Surgery		Harvest: Yes
DBTableName AdultData		
Definition: Indicate the device UDI if available, o	therwise leave bla	ank.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: VS-Mitral Implant	Format:	Text
ParentShortName: MitralImplant	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Long Name: VS-Tricuspid Valve		<i>SeqNo:</i> 3640
Short Name: VSTV		Core: Yes
Section Name: Valve Surgery		Harvest: Yes
DBTableName AdultData		
Definition: Indicate whether a tricuspid valve pro-	cedure was perfor	rmed.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Valve	Format:	Text (categorical values specified by STS)
ParentShortName: OpValve	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
3 Yes, planned		
4 Yes, unplanned due to surgical complication		
5 Yes, unplanned due to unsuspected disease or anatomy		
2 No		

STS Adult Cardiac Surgery Database		Versior	า: 2.81
Long Name:	VS-Tricuspid Proc-Procedure	SeqNo:	3645
Short Name:	OpTricus	Core:	Yes
Section Name:	Valve Surgery	Harvest:	Yes

DBTableName AdultData

Definition: Indicate the type of procedure that was performed on the tricuspid valve.

LowValue: HighValue:	UsualRangeLow: UsualRangeHigh:		
Parent Long Name:	VS-Tricuspid Valve	Format:	Text (categorical values specified by STS)
ParentShortName:	VSTV	DataLength:	
ParentValue:	= "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	Data Source:	User
ParentHarvestCodes	s: 3 4 5		
Harvest Code	·S:		
Cad	. Values		

Code: Value:

- 2 Annuloplasty Only
- 3 Replacement
- 4 Reconstruction with Annuloplasty
- 5 Reconstruction without Annuloplasty
- 6 Valvectomy

Long Name:	VS-Tricuspid Transcatheter Valve Replacement	SeqNo:	3650
Short Name:	VSTCVTri	Core:	Yes
Section Name:	Valve Surgery	Harvest:	Yes
DPTableNam	A dult Data		

DBTableName AdultData

Definition: Indicate whether the tricuspid valve replacement was done using a transcatheter valve device.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	VS-Tricuspid Proc-Procedure	Format:	Text (categorical values specified by STS)
ParentShortName:	OpTricus	DataLength:	
ParentValue:	= "Replacement"	Data Source:	User
ParentHarvestCode	s: 3		
Harvest Code	25:		
Cod	le: <u>Value:</u>		

STS Adult Cardiac Surgery	Database
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2 No

Long Name: VS-Tricuspid Annuloplasty Type	<i>SeqNo:</i> 3655
Short Name: OpTricusAnTy	Core: Yes
Section Name: Valve Surgery	Harvest: Yes
DBTableName AdultData	
Definition: Indicate type of annuloplasty procedure	re.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: VS-Tricuspid Proc-Procedure	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: OpTricus	DataLength:
ParentValue: = "Annuloplasty Only" or "Reconstruction with Annuloplasty"	Data Source: User
ParentHarvestCodes: 2 4	
Harvest Codes:	
Code: Value:	
1 Pericardium	
2 Suture	
3 Prosthetic ring	
4 Prosthetic band	
5 Other	
Long Name: VS-Tricuspid Implant	<i>SeqNo:</i> 3660
Short Name: TricuspidImplant	Core: Yes
Section Name: Valve Surgery	Harvest: Yes
DBTableName AdultData	
Definition: Indicate whether a tricuspid valve or d	levice was implanted.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: VS-Tricuspid Valve	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: VSTV	DataLength:
<i>ParentValue:</i> = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	Data Source: User
ParentHarvestCodes: 3 4 5	
Harvest Codes:	
Code: Value:	

STS Adult Cardiac Surgery Database		Versio	n: 2.81
1 Yes			
2 No			
Long Name: VS-Tricuspid Implant - Type		SeqNo:	3665
Short Name: TricusImplantTy		Core:	Yes
Section Name: Valve Surgery		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the type of tricuspid valv	e or valve device impl	anted.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VS-Tricuspid Implant	Format:	Text (categorical values specified by	v STS)
ParentShortName: TricuspidImplant	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Mechanical valve			
2 Annuloplasty device			
3 Bioprosthetic valve			
4 Transcatheter device			
5 Homograft			
6 Other			
Long Name: VS-Tricuspid Proc-Implant Mo	odel Number	SeqNo:	3670
Short Name: VSTrIm		Core:	Yes
Section Name: Valve Surgery		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the model number of the manufacturer's model number wit			
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VS-Tricuspid Implant	Format:	Text (categorical values specified by	v STS)
ParentShortName: TricuspidImplant	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	

ParentHarvestCodes: 1

STS Adult Cardiac Surgery Database			Version: 2.81	
Long Name: VS-Tricuspid Proc-Imp-Size			SeqNo:	3675
Short Name: VSTrImSz			Core:	Yes
Section Name: Valve Surgery			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the Tricuspid implant size.				
LowValue: 5 UsualRangeLow: 10				
HighValue: 100 UsualRangeHigh: 40				
Parent Long Name: VS-Tricuspid Implant	Format:	Integer		
ParentShortName: TricuspidImplant	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Long Name: VS-Tricuspid Proc-Imp-Unique Dev	vice Identifier (U	DI)	SeqNo:	3680
Short Name: VSTrImUDI			Core:	Yes
Section Name: Valve Surgery			Harvest:	Yes
DBTableName AdultData				

Definition: Indicate the device UDI if available, otherwise leave blank.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	VS-Tricuspid Implant	Format:	Text
ParentShortName:	TricuspidImplant	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCode	s: 1		

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: VS-Pulmonic Valve	<i>SeqNo:</i> 3685
Short Name: VSPV	Core: Yes
Section Name: Valve Surgery	Harvest: Yes
DBTableName AdultData	
Definition: Indicate whether a pulmonic value	ve procedure was performed.
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:	
Parent Long Name: Valve	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: OpValve	DataLength:
ParentValue: = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes:	
<u>Code:</u> Value:	
3 Yes, planned	
4 Yes, unplanned due to surgical complication	
5 Yes, unplanned due to unsuspected disease or anatomy	
2 No	
Long Name: VS-Pulmonic Proc-Procedure	SeqNo: 3690
Short Name: OpPulm	Core: Yes
Section Name: Valve Surgery	Harvest: Yes
DBTableName AdultData	
<i>Definition:</i> Indicate the type of procedure the	at was performed on the pulmonic valve.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: VS-Pulmonic Valve	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: VSPV	DataLength:
ParentValue: = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspe disease or anatomy"	Data Source: User
ParentHarvestCodes: 3 4 5	
Harvest Codes:	
Harvest Codes: <u>Code:</u> <u>Value:</u>	

STS Adult Cardiac Surgery Database			Versio	n: 2.81
4 Valvectomy				
Long Name: VS-Pulmonic Transcatheter Valve Re	eplacement		SeqNo:	3695
Short Name: VSTCVPu			Core:	Yes
Section Name: Valve Surgery			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the pulmonic valve rep	placement was d	one using a transcathete	r valve device	
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:				
Parent Long Name: VS-Pulmonic Proc-Procedure	Format:	Text (categorical value	es specified by	STS)
ParentShortName: OpPulm	DataLength:			
<i>ParentValue:</i> = "Replacement"	Data Source:	User		
ParentHarvestCodes: 2				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
I N VC Deliver is Lord Last			C N	2700
Long Name: VS-Pulmonic Implant			SeqNo:	3700 Xaa
Short Name: PulmonicImplant Section Name: Valve Surgery			Core: Harvest:	Yes Yes
DBTableName AdultData			nurvesi.	103
<i>Definition:</i> Indicate whether a pulmonic valve or definition:	avica was impla	nted		
-	evice was impla	inted.		
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:				
HighValue:UsualRangeHigh:Parent Long Name:VS-Pulmonic Valve	Format:	Text (categorical value	es specified by	(PTP
ParentShortName: VSPV	DataLength:	Text (categorical value	specified by	515)
ParentValue: = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	Data Source:	User		
ParentHarvestCodes: 3 4 5				
TurenillarvesiCoues. 5 4 5				
Harvest Codes:				
Harvest Codes:				

STS Adult Cardiac Surgery Database		Version: 2.
Long Name: VS-Pulmonic Implant - Type		SeqNo: 3
Short Name: PulmonicImplantTy		Core:
Section Name: Valve Surgery		Harvest:
DBTableName AdultData		
Definition: Indicate the type of pulmonic valve	e or valve device im	planted.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: VS-Pulmonic Implant	Format:	Text (categorical values specified by STS
ParentShortName: PulmonicImplant	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source.	User
ParentHarvestCodes: 1		
Harvest Codes:		
<u>Code:</u> <u>Value:</u>		
1 Mechanical valve		
2 Annuloplasty device		
3 Bioprosthetic valve		
4 Transcatheter device		
5 Homograft		
6 Other		
0 Other		
	lel Number	SeqNo: 3
Long Name: VS-Pulmonic Proc-Implant Mod	lel Number	SeqNo: 3 Core:
Long Name: VS-Pulmonic Proc-Implant Mod Short Name: VSPuIm	lel Number	-
Long Name: VS-Pulmonic Proc-Implant Mod	lel Number	Core:
Long Name: VS-Pulmonic Proc-Implant Mod Short Name: VSPuIm Section Name: Valve Surgery DBTableName AdultData	prosthesis implanted	<i>Core:</i> <i>Harvest:</i>
Long Name: VS-Pulmonic Proc-Implant Mod Short Name: VSPuIm Section Name: Valve Surgery DBTableName AdultData Definition: Indicate the model number of the p	prosthesis implanted	<i>Core:</i> <i>Harvest:</i>
Long Name:VS-Pulmonic Proc-Implant ModShort Name:VSPuImSection Name:Valve SurgeryDBTableNameAdultDataDefinition:Indicate the model number of the p manufacturer's model number withLowValue:UsualRangeLow:	prosthesis implanted	<i>Core:</i> <i>Harvest:</i>
Long Name:VS-Pulmonic Proc-Implant ModShort Name:VSPuImSection Name:Valve SurgeryDBTableNameAdultDataDefinition:Indicate the model number of the p manufacturer's model number withLowValue:UsualRangeLow:	prosthesis implanted	<i>Core:</i> <i>Harvest:</i>
Long Name:VS-Pulmonic Proc-Implant ModShort Name:VSPuImSection Name:Valve SurgeryDBTableNameAdultDataDefinition:Indicate the model number of the p manufacturer's model number withLowValue:UsualRangeLow:HighValue:UsualRangeHigh:	prosthesis implanted "xx" substituting fo	<i>Core:</i> <i>Harvest:</i> . The names provided include the r the device size.

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: VS-Pulmonic Proc-Imp-Size			SeqNo:	3715
Short Name: VSPuImSz			Core:	Yes
Section Name: Valve Surgery			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the Pulmonic implant size.				
LowValue: 5 UsualRangeLow: 10				
HighValue: 100 UsualRangeHigh: 40				
Parent Long Name: VS-Pulmonic Implant	Format:	Integer		
ParentShortName: PulmonicImplant	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Long Name: VS-Pulmonic Proc-Imp-Unique De	vice Identifier		SeqNo:	3720

Long Name: VS-Pulmonic Proc-Imp-Unique Device	ce Identifier	SeqNo:	3720
Short Name: VSPuImUDI		Core:	Yes
Section Name: Valve Surgery		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the device UDI if available, oth	erwise leave blank.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VS-Pulmonic Implant	Format: Text		
ParentShortName: PulmonicImplant	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source: User		
ParentHarvestCodes: 1			

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: IABP		<i>SeqNo:</i> 3725
Short Name: IABP		Core: Yes
Section Name: Mechanical Cardiac Assist Devices		Harvest: Yes
DBTableName AdultData		
Definition: Indicate whether the patient was placed	on an Intra-Aor	tic Balloon Pump (IABP).
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name:	Format:	Text (categorical values specified by STS)
ParentShortName:	DataLength:	
ParentValue:	Data Source:	User
ParentHarvestCodes:		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: IABP-When Inserted		<i>SeqNo:</i> 3730
Short Name: IABPWhen		Core: Yes
Section Name: Mechanical Cardiac Assist Devices		Harvest: Yes
DBTableName AdultData		
<i>Definition:</i> Indicate when the IABP was inserted.		
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: IABP	Format:	Text (categorical values specified by STS)
ParentShortName: IABP	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Preop		
2 Intraop		
3 Postop		

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: IABP-Indication			SeqNo:	3735
Short Name: IABPInd			Core:	Yes
Section Name: Mechanical Cardiac Assist Devices			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the primary reason for inserting	g the IABP.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: IABP	Format:	Text (categorical val	ues specified by	STS)
ParentShortName: IABP	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
<u>Code:</u> <u>Value:</u>				
1 Hemodyn Instability				
2 Procedural Support				
3 Unstable Angina				
4 Cardiopulmonary Bypass				
(CPB) Weaning Failure				
5 Prophylactic				
6 Other				
Long Name: IABP-Removed Date			SeqNo:	3740
Short Name: IABPRemDt			Core:	No
Section Name: Mechanical Cardiac Assist Devices			Harvest:	No
DBTableName AdultData				
Definition: Indicate the date on which the IABP wa	is removed.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: IABP	Format:	Date mm/dd/yyyy		
ParentShortName: IABP	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Catheter Based Assist Device Used		<i>SeqNo:</i> 3745
Short Name: CathBasAssist		Core: Yes
Section Name: Mechanical Cardiac Assist Devices		Harvest: Yes
DBTableName AdultData		
Definition: Indicate whether the patient was placed	on a catheter ba	ased assist device (e.g., Impella).
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name:	Format:	Text (categorical values specified by STS)
ParentShortName:	DataLength:	
ParentValue:	Data Source:	User
ParentHarvestCodes:		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: Catheter Based Assist Device		<i>SeqNo:</i> 3750
Short Name: CathBasAssistDev		Core: No
Section Name: Mechanical Cardiac Assist Devices		Harvest: No
DBTableName AdultData		
Definition: Indicate the catheter based assist device	that was used.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Catheter Based Assist Device Used	Format:	Text (categorical values specified by STS)
ParentShortName: CathBasAssist	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		

Code: Value:

1 Impella

2 Tandem Heart

9 Other

STS Adult Cardiac Surgery Database		Versior	n: 2.81
Long Name: Catheter Based Assist Type		SeqNo:	3755
Short Name: CathBasAssistTy		Core:	Yes
Section Name: Mechanical Cardiac Assist Devices		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the type of catheter based assi	st device.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Catheter Based Assist Device Used	Format:	Text (categorical values specified by	STS)
ParentShortName: CathBasAssist	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 RV			
2 LV			
3 BiV			
Long Name: Catheter Based Assist Device When	Inserted	SeqNo:	3760
Short Name: CathBasAssistWhen		Core:	Yes
Section Name: Mechanical Cardiac Assist Devices		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate when the catheter based assist	device was inser	rted.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Catheter Based Assist Device Used	Format:	Text (categorical values specified by	STS)
ParentShortName: CathBasAssist	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Preop			
1 Preop 2 Intraop			
•			

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Catheter Based Assist Device Indicati	ion		SeqNo:	3765
Short Name: CathBasAssistInd			Core:	Yes
Section Name: Mechanical Cardiac Assist Devices			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the primary reason for inserting	, the device.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Catheter Based Assist Device Used	Format:	Text (categorical values	s specified by	STS)
ParentShortName: CathBasAssist	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Hemodynamic Instability				
2 Cardiopulmonary Bypass (CPB) weaning failure				
3 PCI Failure				
5 Procedural support				
4 Other				
Long Name: Catheter Based Assist Device Remove	ed Date		SeqNo:	3770
Short Name: CathBasAssistRemDt	eu Dale		Core:	No
Section Name: Mechanical Cardiac Assist Devices			Harvest:	No
DBTableName AdultData				110
<i>Definition:</i> Indicate the date on which the catheter b	based assist devi	ce was removed.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Catheter Based Assist Device Used	Format:	Date mm/dd/yyyy		
ParentShortName: CathBasAssist	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Surgery Database		Versi	on: 2.81
Long Name: Extracorporeal Membrane Oxygen	ation	SeqNo:	3775
Short Name: ECMO		Core:	Yes
Section Name: Mechanical Cardiac Assist Devices	3	Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether the patient was place	ed on ECMO.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:	Format:	Text (categorical values specified b	y STS)
ParentShortName:	DataLength:		
ParentValue:	Data Source:	User	
ParentHarvestCodes:			
Harvest Codes:			
Code: Value:			
3 Veno-venous			
4 Veno-atrial			
5 Veno-venous converted to Veno-atrial			
2 No			
Long Name: ECMO When Initiated		SeqNo:	3780
Short Name: ECMOWhen		Core:	Yes
Section Name: Mechanical Cardiac Assist Devices	5	Harvest:	Yes
DBTableName AdultData			
Definition: Indicate when patient was placed on l	ECMO.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Extracorporeal Membrane Oxygenation	Format:	Text (categorical values specified b	y STS)
ParentShortName: ECMO	DataLength:		
<i>ParentValue:</i> = "Veno-venous", "Veno- atrial" or "Veno-venous converted to Veno-atrial"	Data Source:	User	
ParentHarvestCodes: 3 4 5			
Harvest Codes:			
Code: Value:			
1 Preop			
2 Intraop			
3 Postop			
1			

Long Name: ECMO Indication	SeqNo:	3785
Short Name: ECMOInd	Core:	Yes
Section Name: Mechanical Cardiac Assist	Devices Harvest:	Yes
DBTableName AdultData		
Definition: Indicate clinical indication for	placing patient on ECMO.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Extracorporeal Memb Oxygenation	rane Format: Text (categorical values specified by	STS)
ParentShortName: ECMO	DataLength:	
ParentValue: = "Veno-venous", "Ve atrial" or "Veno-venou converted to Veno-atr	S	
ParentHarvestCodes: 3 4 5		
Harvest Codes:		
Code: Value:		
1 Cardiac Failure		
2 Respiratory Failure		
3 Hypothermia		
4 Rescue/salvage		
5 Other		
Long Name: VAD-Patient Admitted Wit	h VAD SeqNo:	3790
Short Name: PrevVAD	Core:	Yes
Section Name: Mechanical Cardiac Assist	Devices Harvest:	Yes
DBTableName AdultData		
<i>Definition:</i> Indicate if at the time of this previous admission or from a	rocedure, the patient has a VAD in place that was inserted durin outside hospital.	ıg a
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name:	<i>Format:</i> Text (categorical values specified by	STS)
ParentShortName:	DataLength:	
ParentValue:	Data Source: User	
ParentHarvestCodes:		
Harvest Codes:		
Code: Value:		
1 Yes		

STS Adult Cardiac Surgery Database			Versior	า: 2.81
Long Name: Previous VAD Facility			SeqNo:	3795
Short Name: PrevVADF			Core:	Yes
Section Name: Mechanical Cardiac Assist Devices			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate if the previously implanted assi	st device was in	nplanted at another faci	lity.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VAD-Patient Admitted With VAD	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: PrevVAD	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Previous VAD Insertion Date			SeqNo:	3800
Short Name: PrevVADD			Core:	Yes
Section Name: Mechanical Cardiac Assist Devices			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate insertion date of previous VAD).			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VAD-Patient Admitted With VAD	Format:	Date mm/dd/yyyy		
ParentShortName: PrevVAD	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Previous VAD Indication	<i>SeqNo:</i> 3805
Short Name: PrevVADIn	Core: Yes
Section Name: Mechanical Cardiac Assist Devices	Harvest: Yes
DBTableName AdultData	
Definition: Specify indication for VAD insertion.	
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: VAD-Patient Admitted With VAD	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: PrevVAD	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes and Value Definitions:	
Code: Value:	Definition:
1 Bridge to Transplantation	Includes those patients who are supported with a VAD until a heart transplant is possible.
2 Bridge to Recovery	Includes those patients who are expected to have ventricular recovery. (i.e. Myocarditis patients, postcardiotomy syndromes, viral cardiomyopathies, AMI w/ revascularization, and post-transplant reperfusion injury).
3 Destination	Includes those patients where a heart transplant is not an option. The VAD is placed for permanent life sustaining support.
4 Post Cardiotomy Ventricular Failure	Includes those postcardiotomy patients who receive a VAD because of failure to separate from the heart-lung machine. Postcardiotomy refers to those patients with the inability to wean from cardiopulmonary bypass secondary to left, right, or biventricular failure.
5 Device Malfunction	Includes those patients who are currently VAD supported and are experiencing device failure.
6 End of (Device) Life	Mechanical device pump has reached functional life expectancy and requires replacement.
7 Salvage	Moribund patients unresponsive to medical interventions

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Previous VAD Type			SeqNo:	3810
Short Name: PrevVADTy			Core:	Yes
Section Name: Mechanical Cardiac Assist Devices			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate type of VAD previously inserte	d.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VAD-Patient Admitted With VAD	Format:	Text (categorical value	es specified by	STS)
ParentShortName: PrevVAD	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes and Value Definitions:				
Code: Value:	Definition:			
1 RVAD	Right Vent	ricular Assist Device		
2 LVAD	Left Ventri	cular Assist Device		
3 BiVAD	BiVentricu	lar Assist Device		
4 TAH	Total Artifi	cial Heart		
Long Name: Previous VAD Device Model Number	r		SeqNo:	3815
Short Name: PrevVADDevice			Core:	Yes
Section Name: Mechanical Cardiac Assist Devices			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate Previous VAD device.				
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:	-			
Parent Long Name: VAD-Patient Admitted With VAD	Format:	Text (categorical value	es specified by	STS)
ParentShortName: PrevVAD	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Previous VAD Unique Device Identifier (UDI)	<i>SeqNo:</i> 3820
Short Name: PrevVADUDI	Core: Yes
Section Name: Mechanical Cardiac Assist Devices	Harvest: Yes
DBTableName AdultData	
<i>Definition:</i> Indicate the device UDI if available, otherwise leave blank.	
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: VAD-Patient Admitted With Format: Tex VAD	t
ParentShortName: PrevVAD DataLength:	
ParentValue: = "Yes" Data Source: Use	ſ
ParentHarvestCodes: 1	
Long Name: Previous VAD Explanted During This Admission	SeqNo: 3825
Short Name: PrevVADExp	Core: Yes
Section Name: Mechanical Cardiac Assist Devices	Harvest: Yes
DBTableName AdultData	
Definition: Indicate whether the previously inserted VAD was explanted	during this hospitalization.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: VAD-Patient Admitted With Format: Tex VAD	t (categorical values specified by STS)
ParentShortName: PrevVAD DataLength:	
ParentValue: = "Yes" Data Source: Use	r
ParentHarvestCodes: 1	
Hamsont Cadag and Value Definitional	
Harvest Codes and Value Definitions:	
<u>Code:</u> <u>Value:</u> <u>Definition:</u>	
Code: Value: Definition:	the operating room.
Code: Value: Definition:	the operating room.

STS Adult Cardiac S	Surgery Database			Versior	า: 2.81
Long Name: Pre-	vious VAD Explanted During This	s Admission - F	Reason	SeqNo:	3830
Short Name: Pre	vVADExpRsn			Core:	Yes
Section Name: Mee	chanical Cardiac Assist Devices			Harvest:	Yes
DBTableName Ad	ultData				
Definition: Indica	te the primary reason the VAD wa	as explanted.			
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name.	 Previous VAD Explanted During This Admission 	Format:	Text (categorical value	es specified by	STS)
ParentShortName:	PrevVADExp	DataLength:			
ParentValue:	= "Yes, not during this procedure" or "Yes, during this procedure"	Data Source:	User		
ParentHarvestCode	es: 1 2				
Harvest Cod	es:				
<u>Co</u>	de: Value:				
	1 Cardiac transplant				
	2 Recovery				
	3 Device transfer				
	4 Device-related infection				
	5 Device malfunction				
	6 End of (device) life				
Long Name: Pre-	vious VAD Explanted During Thi	s Admission - I	Date	SeqNo:	3835
-	vVADExpDt			Core:	Yes
	chanical Cardiac Assist Devices			Harvest:	Yes
DBTableName Ad	ultData				
Definition: Indica	te date of explant.				
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name.	 Previous VAD Explanted During This Admission 	Format:	Date mm/dd/yyyy		
ParentShortName:	PrevVADExp	DataLength:			
ParentValue:	= "Yes, not during this procedure"	Data Source:	User		
ParentHarvestCode	<i>es:</i> 1				

STS Adult Cardiac Su	irgery Database			Versio	n: 2.81
Long Name: Vent	ricular Assist Device Implanted I	Ouring This Ho	spitalization	SeqNo:	384
Short Name: VAI	DImp			Core:	Ye
Section Name: Mech	nanical Cardiac Assist Devices			Harvest:	Ye
DBTableName Adu	ltData				
Definition: Indicate	e whether a VAD was inserted du	ring this hospit	alization.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:		Format:	Text (categorical value	ues specified by	STS)
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentHarvestCodes	:				
Harvest Codes	S:				
	e: <u>Value:</u>				
1					
2	2 No				
Long Name: VAD	O-Implant Timing			SeqNo:	384
	DImpTmg			Core:	Ye
Section Name: Mech	nanical Cardiac Assist Devices			Harvest:	Ye
DBTableName Adu	ltData				
Definition: Indicate	e timing of VAD insertion.				
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:	Ventricular Assist Device Implanted During This Hospitalization	Format:	Text (categorical value	ues specified by	STS)
ParentShortName:	VADImp	DataLength:			
ParentValue:	= "Yes"	Data Source:	User		
ParentHarvestCodes	:: 1				
Harvest Codes	S:				
Code	e: <u>Value:</u>				
I	Pre-operative (during same hospitalization but not same OR trip as CV surgical procedure)				
2					
3	-				
2	In conjunction with CV				
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	surgical procedure (same trip to the OR) - unplanned	
5	Post-operative (after surgical procedure during reoperation))
Long Name: VAD-I	indication for this VAD	<i>SeqNo:</i> 3850
Short Name: VADIr	nd	Core: Yes
Section Name: Mechan	nical Cardiac Assist Devices	Harvest: Yes
DBTableName AdultI	Data	
Definition: Indicate t	he reason for implanting a Ven	tricular Assist Device (VAD) during this hospitalization.
LowValue:	UsualRangeLow:	
HighValue:	UsualRangeHigh:	
It	Ventricular Assist Device mplanted During This Iospitalization	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: V.	ADImp	DataLength:
ParentValue: =	"Yes"	Data Source: User
ParentHarvestCodes:	1	
Harvest Codes a	and Value Definitions:	
Code:	Value:	Definition:
1	Bridge to Transplantation	Includes those patients who are supported with a VAD until a heart transplant is possible.
2	Bridge to Recovery	Includes those patients who are expected to have ventricular recovery. (i.e. Myocarditis patients, postcardiotomy syndromes, viral cardiomyopathies, AMI w/ revascularization, and post-transplant reperfusion injury).
3	Destination	Includes those patients where a heart transplant is not an option. The VAD is placed for permanent life sustaining support.
4	Post Cardiotomy Ventricular Failure	Includes those postcardiotomy patients who receive a VAD because of failure to separate from the heart-lung machine. Postcardiotomy refers to those patients with the inability to wean from cardiopulmonary bypass secondary to left, right, or biventricular failure.
5	Device Malfunction	Includes those patients who are currently VAD supported and are experiencing device failure.
6	End of (Device) Life	Mechanical device pump has reached functional life expectancy and requires replacement.
7	Salvage	Moribund patients unresponsive to medical interventions

STS Adult Cardiac Surgery Database		Version: 2.8
Long Name: VAD-Implant Type		SeqNo: 38
Short Name: VImpTy		Core: Y
Section Name: Mechanical Cardiac Assist Devices		Harvest:
DBTableName AdultData		
Definition: Indicate the first type of VAD implante	d during this hos	spitalization.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Ventricular Assist Device Implanted During This Hospitalization	Format:	Text (categorical values specified by STS
ParentShortName: VADImp	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Right VAD (RVAD)		
2 Left VAD (LVAD)		
3 Biventricular VAD (BiVAD))	
4 Total Artificial Heart (TAH)		
Long Name: VAD-Device		SeqNo: 38
Short Name: VProdTy		Core: Y
Section Name: Mechanical Cardiac Assist Devices		Harvest:
DBTableName AdultData		
Definition: Indicate the VAD brand name implante	d. Implant defin	ed as physical placement of the VAD.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Ventricular Assist Device Implanted During This Hospitalization	Format:	Text (categorical values specified by STS
ParentShortName: VADImp	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		

STS Adult Cardiac Surgery Database		Versio	n: 2.81
Long Name: VAD-Implant Date		SeqNo:	3865
Short Name: VImpDt		Core:	Yes
Section Name: Mechanical Cardiac Assist Devices		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the date the VAD was implanted.			
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:Ventricular Assist DeviceFormat:Implanted During ThisHospitalization	Date mm/dd/yyyy		
ParentShortName: VADImp DataLength:			
ParentValue: = "Yes" Data Source	: User		
ParentHarvestCodes: 1			
Long Name: VAD-Implant Unique Device Identifier (UDI)		SeqNo:	3870
Short Name: VImpUDI		Core:	Yes
Section Name: Mechanical Cardiac Assist Devices		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the device UDI if available, otherwise leave b	lank.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:Ventricular Assist DeviceFormat:Implanted During ThisHospitalization	Text		
ParentShortName: VADImp DataLength:			
ParentValue: = "Yes" Data Source	: User		
ParentHarvestCodes: 1			

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: VAD-Explant	SeqNo: 387
Short Name: VExp	Core: Ye
Section Name: Mechanical Cardiac Assist Devic	es <i>Harvest:</i> Ye
DBTableName AdultData	
Definition: Indicate if the VAD was explanted.	Explant is defined as physical removal of the VAD.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Ventricular Assist Device Implanted During This Hospitalization	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: VADImp	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes:	
Code: Value:	
3 Yes, not during this proc	edure
4 Yes, during this procedu	
2 No	
Lang Names - VAD Evalent Bessen	SagNat 299
Long Name: VAD-Explant Reason	SeqNo: 388 Core: Ye
Short Name: VExpRsn Section Name: Mechanical Cardiac Assist Devic	
DBTableName AdultData	
Definition: Indicate the reason the VAD was ex	nlanted
	produced.
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:	
Parent Long Name: VAD-Explant	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: VExp	DataLength:
ParentValue: = "Yes, not during this procedure" or "Yes, during procedure"	Data Source: User
ParentHarvestCodes: 3 4	
Harvest Codes and Value Definitions:	
Code: Value:	Definition:
1 Cardiac Transplant	The VAD was explanted for Cardiac Transplant.
2 Recovery	The VAD was removed after cardiac recovery.
2 Recovery3 Device Transfer	The VAD was removed after cardiac recovery. The VAD was explanted in order to implant another assist device.

	Endocarditis, or other infection requiring explantation of the VAD. The body of the VAD has an active infection requiring removal to eliminate the infection. "Device-related infections" are defined as positive culture in the presence of leukocytosis, and /or fever requiring medical or surgical intervention.
5 Device Malfunction	The VAD pump itself is not functioning properly causing hemodynamic compromise, and/or requiring immediate intervention or VAD replacement.
6 End of (device) life	Mechanical device pump has reached functional life expectancy and requires replacement.
Long Name: VAD-Explant Date	<i>SeqNo:</i> 3885
Short Name: VExpDt	Core: Yes
Section Name: Mechanical Cardiac Assist Devices	Harvest: Yes
DBTableName AdultData	
Definition: Indicate the date the VAD was explanted	I.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: VAD-Explant	<i>Format:</i> Date mm/dd/yyyy
ParentShortName: VExp	DataLength:
<i>ParentValue:</i> = "Yes, not during this procedure"	Data Source: User

ParentHarvestCodes: 3

Long Name: VAD-Cardiac Transplant Date			SeqNo:	3890
Short Name: VTxDt			Core:	No
Section Name: Mechanical Cardiac Assist Devices			Harvest:	No
DBTableName AdultData				
Definition: Indicate the date the patient received a c	ardiac transplar	nt.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VAD-Explant Reason	Format:	Date mm/dd/yyyy		
ParentShortName: VExpRsn	DataLength:			
<i>ParentValue:</i> = "Cardiac Transplant"	Data Source:	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Sur	gery Database		Ver	sion: 2.81
Long Name: VAD-	Implant #2		SeqNo:	389:
Short Name: VImp	2		Core	: Ye
Section Name: Mecha	nical Cardiac Assist Devices		Harvest:	Ye
DBTableName Adult	Data			
Definition: Indicate	whether a second ventricular as	sist device was	implanted.	
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
]	Ventricular Assist Device Implanted During This Hospitalization	Format:	Text (categorical values specified	by STS)
ParentShortName: V	ADImp	DataLength:		
ParentValue: =	"Yes"	Data Source:	User	
ParentHarvestCodes:	1			
Harvest Codes:				
	Value:			
1	Yes			
2	No			
Long Name: VAD-	Implant Timing #2		SeqNo:	390
Short Name: VAD	mpTmg2		Core	: Ye
Section Name: Mecha	nical Cardiac Assist Devices		Harvest:	Ye
DBTableName Adult	Data			
Definition: Indicate	timing of VAD #2 insertion.			
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
Parent Long Name:	VAD-Implant #2	Format:	Text (categorical values specified	by STS)
ParentShortName: V	/Imp2	DataLength:		
ParentValue: =	"Yes"	Data Source:	User	
ParentHarvestCodes:	1			
Harvest Codes:				
Code:	Value:			
1	Pre-operative (during same hospitalization but not same OR trip as CV surgical procedure)			
2	Stand-alone VAD procedure			
3	In conjunction with CV surgical procedure (same trip to the OR) - planned			
4	In conjunction with CV			
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	surgical procedure (same trip to the OR) - unplanned		
	5 Post-operative (after surgical procedure during reoperation)		
Long Name:	VAD-Indication for this VAD #2	SeqNo:	3905
Short Name:	VADInd2	Core:	Yes
Section Name:	Mechanical Cardiac Assist Devices	Harvest:	Yes

DBTableName AdultData

Definition: Indicate the reason for implanting a Ventricular Assist Device (VAD) #2 during this hospitalization.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	VAD-Implant #2	Format:	Text (categorical values specified by STS)
ParentShortName:	VImp2	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCode	s: 1		

Harvest Codes and Value Definitions:

Code:	Value:	Definition:
1	Bridge to Transplantation	Includes those patients who are supported with a VAD until a heart transplant is possible.
2	Bridge to Recovery	Includes those patients who are expected to have ventricular recovery. (i.e. Myocarditis patients, postcardiotomy syndromes, viral cardiomyopathies, AMI w/ revascularization, and post-transplant reperfusion injury).
3	Destination	Includes those patients where a heart transplant is not an option. The VAD is placed for permanent life sustaining support.
4	Post Cardiotomy Ventricular Failure	Includes those postcardiotomy patients who receive a VAD because of failure to separate from the heart-lung machine. Postcardiotomy refers to those patients with the inability to wean from cardiopulmonary bypass secondary to left, right, or biventricular failure.
5	Device Malfunction	Includes those patients who are currently VAD supported and are experiencing device failure.
6	End of (Device) Life	Mechanical device pump has reached functional life expectancy and requires replacement.
7	Salvage	Moribund patients unresponsive to medical interventions

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: VAD-Implant Type #2		SeqNo: 3910
Short Name: VImpTy2		Core: Yes
Section Name: Mechanical Cardiac Assist Devices		Harvest: Yes
DBTableName AdultData		
Definition: Indicate the second type of ventricular a	assist device imp	planted.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: VAD-Implant #2	Format:	Text (categorical values specified by STS)
ParentShortName: VImp2	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Right VAD (RVAD)		
2 Left VAD (LVAD)		
3 Biventricular VAD (BiVAD))	
4 Total Artificial Heart (TAH)		
Long Name: VAD-Device #2		SeqNo: 3915
Short Name: VProdTy2		Core: Yes
Section Name: Mechanical Cardiac Assist Devices		Harvest: Yes
DBTableName AdultData		
Definition: Indicate the specific product #2 implant	ed. Implant defi	ined as physical placement of the VAD.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: VAD-Implant #2	Format:	Text (categorical values specified by STS)
ParentShortName: VImp2	DataLength:	
······································		

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: VAD-Implant Date #2			SeqNo:	3920
Short Name: VImpDt2			Core:	Yes
Section Name: Mechanical Cardiac Assist Devic	es		Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the date the VAD #2 was in	mplanted.			
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:VAD-Implant #2	Format:	Date mm/dd/yyyy		
ParentShortName: VImp2	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Long Name: VAD-Implant Unique Device Ide	entifier (UDI) #2		SeqNo:	3925
Short Name: VImpUDI2			Core:	Yes
Section Name: Mechanical Cardiac Assist Devic	ces		Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the device UDI if available	e, otherwise leave bla	ank.		
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:				
Parent Long Name: VAD-Implant #2	Format:	Text		
	DataLength:			
ParentShortName: VImp2				
ParentShortName: VImp2 ParentValue: = "Yes"	Data Source:	User		

STS Adult Cardiac Surgery Database		Version: 2	.81
Long Name: VAD-Explant #2		SeqNo: 3	3930
Short Name: VExp2		Core:	Yes
Section Name: Mechanical Cardiac Assist Devices		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate if the VAD #2 was explanted.	Explant is define	ed as physical removal of the VAD.	
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:			
Parent Long Name: VAD-Implant #2	Format:	Text (categorical values specified by ST	S)
ParentShortName: VImp2	DataLength:		
ParentValue: = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
3 Yes, not during this procedu	ire		
4 Yes, during this procedure			
2 No			
<i>Long Name:</i> VAD-Explant Reason #2			3935
Short Name: VExpRsn2			Yes
Section Name: Mechanical Cardiac Assist Devices		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate the reason the VAD #2 was ex	cplanted.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VAD-Explant #2	Format:	Text (categorical values specified by ST	S)
ParentShortName: VExp2	DataLength:		
ParentValue: = "Yes, not during this procedure" or "Yes, during this procedure"	Data Source:	User	
ParentHarvestCodes: 3 4			
Harvest Codes and Value Definitions:			
Code: Value:	Definition:		
1 Cardiac Transplant	The VAD v	was explanted for Cardiac Transplant.	
2 Recovery	The VAD v	was removed after cardiac recovery.	
3 Device Transfer	The VAD wassist device	was explanted in order to implant another e.	
4 Device-Related Infection	Endocardit	n within the pump pocket, driveline, VAI is, or other infection requiring explantatio). The body of the VAD has an active	

Surg	jery Database	Version: 2.81
		infection requiring removal to eliminate the infection. "Device-related infections" are defined as positive culture in the presence of leukocytosis, and /or fever requiring medical or surgical intervention.
5	Device Malfunction	The VAD pump itself is not functioning properly causing hemodynamic compromise, and/or requiring immediate intervention or VAD replacement.
6	End of (device) life	Mechanical device pump has reached functional life expectancy and requires replacement.

Long Name: VAD-Explant Date #2		SeqNo:	3940
Short Name: VExpDt2		Core:	Yes
Section Name: Mechanical Cardiac Assist Devices		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate the date the VAD #2 was explan	ted.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VAD-Explant #2	Format: Date m	n/dd/yyyy	
ParentShortName: VExp2	DataLength:		
<i>ParentValue:</i> = "Yes, not during this procedure"	Data Source: User		

ParentHarvestCodes: 3

Long Name: VAD-Cardiac Transplant Date #2	SeqNo:	3945
Short Name: VTxDt2	Core:	No
Section Name: Mechanical Cardiac Assist Devices	Harvest:	No
DBTableName AdultData		
Definition: Indicate the date the patient received a cardiac transplant.		
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name:VAD-Explant Reason #2Format:Date mm/dd/yyyy		
ParentShortName: VExpRsn2 DataLength:		
ParentValue: = "Cardiac Transplant" Data Source: User		
ParentHarvestCodes: 1		

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: VAD-Implant #3			SeqNo:	3950
Short Name: VImp3			Core:	Ye
Section Name: Mechanical Cardiac Assist Devices			Harvest:	Ye
DBTableName AdultData				
Definition: Indicate whether a third ventricular assis	st device was in	nplanted.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VAD-Implant #2	Format:	Text (categorical value	es specified by	STS)
ParentShortName: VImp2	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
<i>Long Name:</i> VAD-Implant Timing #3			SeqNo:	395
Short Name: VADImpTmg3			Core:	Ye
Section Name: Mechanical Cardiac Assist Devices			Harvest:	Ye
DBTableName AdultData				
<i>Definition:</i> Indicate timing of VAD #3 insertion.				
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VAD-Implant #3	Format:	Text (categorical value	es specified by	STS)
ParentShortName: VImp3	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Pre-operative (during same hospitalization but not same OR trip as CV surgical procedure)				
2 Stand-alone VAD procedure				
3 In conjunction with CV surgical procedure (same trip to the OR) - planned				
4 In conjunction with CV surgical procedure (same trip to the OR) - unplanned				
			_	

STS Adult Cardiac Surgery Database

5 Post-operative (after surgical procedure during reoperation)	,
Long Name: VAD-Indication for this VAD #3	<i>SeqNo:</i> 3960
Short Name: VADInd3	Core: Yes
Section Name: Mechanical Cardiac Assist Devices	Harvest: Yes
DBTableName AdultData	
Definition: Indicate the reason for implanting a Ven	tricular Assist Device (VAD)#3 during this hospitalization.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: VAD-Implant #3	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: VImp3	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes and Value Definitions:	
Code: Value:	Definition:
1 Bridge to Transplantation	Includes those patients who are supported with a VAD until a heart transplant is possible.
2 Bridge to Recovery	Includes those patients who are expected to have ventricular recovery. (i.e. Myocarditis patients, postcardiotomy syndromes, viral cardiomyopathies, AMI w/ revascularization, and post-transplant reperfusion injury).
3 Destination	Includes those patients where a heart transplant is not an option. The VAD is placed for permanent life sustaining support.
4 Post Cardiotomy Ventricular Failure	Includes those postcardiotomy patients who receive a VAD because of failure to separate from the heart-lung machine. Postcardiotomy refers to those patients with the inability to wean from cardiopulmonary bypass secondary to left, right, or biventricular failure.
5 Device Malfunction	Includes those patients who are currently VAD supported and are experiencing device failure.
6 End of (Device) Life	Mechanical device pump has reached functional life expectancy and requires replacement.
7 Salvage	Moribund patients unresponsive to medical interventions

Long Name:VAD-Implant Type #3Short Name:VImpTy3Section Name:Mechanical Cardiac Assist Devices		<i>SeqNo:</i> 3965
1 2		1
Section Name: Mechanical Cardiac Assist Devices		Core: Yes
		Harvest: Yes
DBTableName AdultData		
Definition: Indicate the third type of ventricular assi	ist device impla	inted.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: VAD-Implant #3	Format:	Text (categorical values specified by STS)
ParentShortName: VImp3	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Right VAD (RVAD)		
2 Left VAD (LVAD)		
3 Biventricular VAD (BiVAD)		
4 Total Artificial Heart (TAH)		
Long Name: VAD-Device #3		SeqNo: 3970
Short Name: VProdTy3		Core: Yes
Section Name: Mechanical Cardiac Assist Devices		Harvest: Yes
DBTableName AdultData		
Definition: Indicate the specific product #3 implanted	ed. Implant defi	ined as physical placement of the VAD.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: VAD-Implant #3	Format:	Text (categorical values specified by STS)
ParentShortName: VImp3	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: VAD-Implant Date #3			SeqNo:	3975
Short Name: VImpDt3			Core:	Yes
Section Name: Mechanical Cardiac Assist Device	es		Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the date the VAD #3 was in	nplanted.			
LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:VAD-Implant #3	Format:	Date mm/dd/yyyy		
ParentShortName: VImp3	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Long Name: VAD-Implant Unique Device Ide	ntifier (UDI) #3		SeqNo:	3980
Short Name: VImpUDI3			Core:	Yes
Section Name: Mechanical Cardiac Assist Device	es		Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the device UDI if available,	, otherwise leave bla	ank.		
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:				
Parent Long Name: VAD-Implant #3	Format:	Text		
° .				
ParentShortName: VImp3	DataLength:			
	DataLength: Data Source:	User		

STS Adult Cardiac Surgery Database		Version: 2	.81
Long Name: VAD-Explant #3		SeqNo:	3985
Short Name: VExp3		Core:	Yes
Section Name: Mechanical Cardiac Assist Devices	5	Harvest:	Yes
DBTableName AdultData			
Definition: Indicate if the VAD #3 was explanted	1. Explant is defin	ned as physical removal of the VAD.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: VAD-Implant #3	Format:	Text (categorical values specified by ST	S)
ParentShortName: VImp3	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source	: User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
3 Yes, not during this proceed	lure		
4 Yes, during this procedure			
2 No			
Long Name: VAD-Explant Reason #3		SeqNo:	3990
Short Name: VExpRsn3		Core:	Yes
Section Name: Mechanical Cardiac Assist Devices	1	Harvest:	Yes
DBTableName AdultData	,	11017057	105
<i>Definition:</i> Indicate the reason the VAD #3 was of	explanted.		
LowValue: UsualRangeLow:	I		
HighValue: UsualRangeHigh:			
Parent Long Name: VAD-Explant #3	Format:	Text (categorical values specified by ST	S)
ParentShortName: VExp3	DataLength:		,
ParentValue: = "Yes, not during this procedure" or "Yes, during th procedure"	Data Source		
ParentHarvestCodes: 3 4			
Harvest Codes and Value Definitions:			
<u>Code:</u> Value:	Definition		
1 Cardiac Transplant		was explanted for Cardiac Transplant.	
2 Recovery		was removed after cardiac recovery.	
3 Device Transfer		was explanted in order to implant another	
4 Device-Related Infection	Endocardi	on within the pump pocket, driveline, VAI tis, or other infection requiring explantatio D. The body of the VAD has an active	

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		infection requiring removal to eliminate the infection. "Device-related infections" are defined as positive culture in the presence of leukocytosis, and /or fever requiring medical or surgical intervention.
5	Device Malfunction	The VAD pump itself is not functioning properly causing hemodynamic compromise, and/or requiring immediate intervention or VAD replacement.
6	End of (device) life	Mechanical device pump has reached functional life expectancy and requires replacement.

Long Name: VAD-Explant Date #3		SeqNo:	3995
Short Name: VExpDt3		Core:	Yes
Section Name: Mechanical Cardiac Assist Devices		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the date the VAD #3 was explanted	ed.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:VAD-Explant #3	<i>Format:</i> Date mm/dd/yyyy		
ParentShortName: VExp3	DataLength:		
ParentValue:= "Yes, not during thisIprocedure"	Data Source: User		

ParentHarvestCodes: 3

Long Name: VAD-Cardiac Transplant Date #3			SeqNo:	4000
Short Name: VTxDt3			Core:	No
Section Name: Mechanical Cardiac Assist Devices			Harvest:	No
DBTableName AdultData				
<i>Definition:</i> Indicate the date the patient received a c	ardiac transplar	nt.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: VAD-Explant Reason #3	Format:	Date mm/dd/yyyy		
ParentShortName: VExpRsn3	DataLength:			
<i>ParentValue:</i> = "Cardiac Transplant"	Data Source:	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: VAD-Discharge Status	<i>SeqNo:</i> 4005
Short Name: VADDiscS	Core: No
Section Name: Mechanical Cardiac Assist Devices	Harvest: No
DBTableName AdultData	
Definition: Indicate the VAD status at discharge from the hospital.	
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:	
Parent Long Name: VAD Implanted or Removed Format:	Text (categorical values specified by STS)
ParentShortName: VADProc DataLength:	
<i>ParentValue:</i> = "Yes, implanted", "Yes, <i>Data Source:</i> explanted", or "Yes, implanted and explanted"	User
ParentHarvestCodes: 2 3 4	
Harvest Codes:	
Code: Value:	
1 With VAD	
2 Without VAD	
3 Expired in Hospital	
Long Name: Complications Related To Mechanical Assist Device	· · ·
Short Name: CompMAD	Core: Yes
Section Name: Mechanical Cardiac Assist Devices	Harvest: Yes
DBTableName AdultData	• • • • • • •
Definition: Indicate whether complications resulted from mechanic	al assist device(s).
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Format:	Text (categorical values specified by STS)
ParentShortName:DataLength:	
ParentValue: Data Source:	User
ParentHarvestCodes:	
Harvest Codes:	
<u>Code:</u> <u>Value:</u>	
1 No	
2 Yes, IABP	
3 Yes, CBAD	
4 Yes, ECMO	
5 Yes, VAD	
6 Yes, multiple devices	

Long Name: Con	nplications Related To Mechanica	l Assist Device	(s) #1	SeqNo:	4015
Short Name: Con	npMAD1			Core:	Yes
Section Name: Mec	hanical Cardiac Assist Devices			Harvest:	Yes
DBTableName Adu	ultData				
Definition: Indicat	te complication related to mechan	ical assist devic	e(s).		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:	Complications Related To Mechanical Assist Device(s)	Format:	Text (categorical value	es specified by	STS)
ParentShortName:	CompMAD	DataLength:			
ParentValue:	= "Yes, IABP", "Yes, CBAD", "Yes, ECMO", "Yes, VAD" or "Yes, multiple devices"	Data Source:	User		
ParentHarvestCode	s: 2 3 4 5 6				
Harvest Code	28:				
Cod	le: Value:				
	2 Cannula / insertion site issue				
	3 Cardiac				
	4 GI				
	5 Hemorrhagic				

6 Hemolytic

- o menorytik
- 7 Infection
- 8 Metabolic
- 9 Neurologic
- 10 Pulmonary
- 11 Other

STS Adult Cardiac Su	rgery Database			Versio	n: 2.81
Long Name: Com	plications Related To Mechanica	l Assist Device	(s) #2	SeqNo:	4020
Short Name: Com	pMAD2			Core:	Yes
Section Name: Mech	anical Cardiac Assist Devices			Harvest:	Yes
DBTableName Adu	ltData				
Definition: Indicate	e additional complication or choo	ose no additiona	l complications.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:	Complications Related To Mechanical Assist Device(s)	Format:	Text (categorical value	es specified by	STS)
ParentShortName:	CompMAD	DataLength:			
	= "Yes, IABP", "Yes, CBAD", "Yes, ECMO", "Yes, VAD" or "Yes, multiple devices"	Data Source:	User		
ParentHarvestCodes	: 2 3 4 5 6				
Harvest Codes	:				
Code	<u>e:</u> <u>Value:</u>				
1	No additional complications				
2	Cannula / insertion site issue				
3	Cardiac				
4	GI				
5	Hemorrhagic				
6	Hemolytic				
7	Infection				
8	Metabolic				
9	Neurologic				
10	Pulmonary				
11	Other				

STS Adult Cardiac Su	plications Related To Mechanica	al Assist Device	(s) #3	Version SeqNo:	4025
-	pheations related 10 Weename		(3) #3	Core:	Yes
	nanical Cardiac Assist Devices			Harvest:	Yes
DBTableName Adu				1100 0000	100
	e additional complication or cho	ose no additiona	l complications		
v	-		r complications.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:		T	· C 11	(TTC)
Parent Long Name:	Complications Related To Mechanical Assist Device(s) #2	Format:	Text (categorical valu	es specified by	\$1\$)
ParentShortName:	CompMAD2	DataLength:			
	"No additional complications" And Is Not Missing	Data Source:	User		
ParentHarvestCodes	$\approx \sim$ 1 And Is Not Missing				
Harvest Code	5:				
Code	e: <u>Value:</u>				
1	No additional complications				
2	2 Cannula / insertion site issue				
3	3 Cardiac				
2	4 GI				
4	5 Hemorrhagic				
e	6 Hemolytic				
7	7 Infection				
8	3 Metabolic				
ç	Neurologic				
10) Pulmonary				
11	Other				

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: VAD-Primary VAD Comp-Intracranial Bleed	SeqNo: 4030
Short Name: PVCmpBld	Core: No
Section Name: Mechanical Cardiac Assist Devices	Harvest: No
DBTableName AdultData	
Definition: Indicate if the patient had an intracranial bleed, confirmed by CT scar	n or other diagnostic studies.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: VAD Implanted or Removed Format: Text (catego	rical values specified by STS)
ParentShortName: VADProc DataLength:	
<i>ParentValue:</i> = "Yes, implanted", "Yes, <i>Data Source:</i> User explanted", or "Yes, implanted and explanted"	
ParentHarvestCodes: 2 3 4	
Harvest Codes:	
Code: Value:	
1 Yes	
2 No	
Long Name: VAD-Primary VAD Comp-Embolic Stroke	SeqNo: 4035
Short Name: PVCmpESt	<i>Core:</i> No
Section Name: Mechanical Cardiac Assist Devices	Harvest: No
DBTableName AdultData	
<i>Definition:</i> Indicate if the patient had embolic stroke caused by a blood clot, air e by CT scan or other diagnostic studies.	mbolus, or tissue, confirmed
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
0 0 0	rical values specified by STS)
ParentShortName: VADProc DataLength:	
<i>ParentValue:</i> = "Yes, implanted", "Yes, <i>Data Source:</i> User explanted", or "Yes, implanted and explanted"	
ParentHarvestCodes: 2 3 4	
Harvest Codes:	
Code: Value:	
1 Yes	

	base			Versio	n: 2.81
Long Name: VAD-Primary V	AD Comp-Driveline	and/or cannula	Infection	SeqNo:	4040
Short Name: PVCmpDCI				Core:	No
Section Name: Mechanical Card	liac Assist Devices			Harvest:	No
DBTableName AdultData					
defined as the pres	ence of erythema, dra	inage, or purule	ection. Driveline and/or ence at the VAD connect tosis and in the presence	tion site wheth	ner
LowValue: UsualRa	ingeLow:				
HighValue: UsualRa	ingeHigh:				
Parent Long Name: VAD Impl	anted or Removed	Format:	Text (categorical value	s specified by	STS)
ParentShortName: VADProc		DataLength:			
	olanted", "Yes, or "Yes, implanted ted"	Data Source:	User		
ParentHarvestCodes: 2 3 4					
Harvest Codes:					
<u>Code:</u> <u>Value:</u>					
1 Yes					
2 No					
Long Name: VAD-Primary V	AD Comp-Pump Poc	ket Infection		SeqNo:	4045
· ·				sequo.	4045
Short Name: PVCmpPPI				Core:	No
• •	liac Assist Devices			-	No
Short Name: PVCmpPPI	liac Assist Devices			Core:	No
Short Name: PVCmpPPI Section Name: Mechanical Card DBTableName AdultData Definition: Indicate if the patie persistent drainage	ent had a pump pocke	t infection. A p on of the pump,	ump pocket infection is located preperitoneally	<i>Core:</i> <i>Harvest:</i> defined as a	No No
Short Name: PVCmpPPI Section Name: Mechanical Card DBTableName AdultData Definition: Indicate if the patie persistent drainage abdominally with p	ent had a pump pocke in the physical location	t infection. A p on of the pump,	, located preperitoneally	<i>Core:</i> <i>Harvest:</i> defined as a	No
Short Name: PVCmpPPI Section Name: Mechanical Card DBTableName AdultData Definition: Indicate if the patie persistent drainage abdominally with p LowValue: UsualRa	ent had a pump pocke in the physical location positive cultures from	t infection. A p on of the pump,	, located preperitoneally	<i>Core:</i> <i>Harvest:</i> defined as a	No
Short Name: PVCmpPPI Section Name: Mechanical Card DBTableName AdultData Definition: Indicate if the patie persistent drainage abdominally with p LowValue: UsualRa	ent had a pump pocket in the physical location positive cultures from <i>ungeLow:</i> <i>ungeHigh:</i>	t infection. A p on of the pump,	, located preperitoneally	<i>Core:</i> <i>Harvest:</i> defined as a or intra-	No No
Short Name: PVCmpPPI Section Name: Mechanical Card DBTableName AdultData Definition: Indicate if the patie persistent drainage abdominally with p LowValue: UsualRa HighValue: UsualRa	ent had a pump pocket in the physical location positive cultures from <i>ungeLow:</i> <i>ungeHigh:</i>	t infection. A p on of the pump, the pocket site.	, located preperitoneally	<i>Core:</i> <i>Harvest:</i> defined as a or intra-	No No
Short Name: PVCmpPPI Section Name: Mechanical Card DBTableName AdultData Definition: Indicate if the patie persistent drainage abdominally with p LowValue: UsualRa HighValue: UsualRa Parent Long Name: VAD Impl ParentShortName: VADProc ParentValue: = "Yes, imp	ent had a pump pocket in the physical locatio positive cultures from <i>ungeLow:</i> <i>ungeHigh:</i> anted or Removed planted", "Yes, or "Yes, implanted	t infection. A p on of the pump, the pocket site. <i>Format:</i>	located preperitoneally Text (categorical value	<i>Core:</i> <i>Harvest:</i> defined as a or intra-	No No
Short Name: PVCmpPPI Section Name: Mechanical Card DBTableName AdultData Definition: Indicate if the patie persistent drainage abdominally with p LowValue: UsualRa HighValue: UsualRa Parent Long Name: VAD Impl ParentShortName: VADProc ParentValue: = "Yes, imp explanted",	ent had a pump pocket in the physical locatio positive cultures from <i>ungeLow:</i> <i>ungeHigh:</i> anted or Removed planted", "Yes, or "Yes, implanted	t infection. A p on of the pump, the pocket site. <i>Format:</i> <i>DataLength:</i>	located preperitoneally Text (categorical value	<i>Core:</i> <i>Harvest:</i> defined as a or intra-	No No
Short Name: PVCmpPPI Section Name: Mechanical Card DBTableName AdultData Definition: Indicate if the patie persistent drainage abdominally with p LowValue: UsualRa HighValue: UsualRa Parent Long Name: VAD Impl ParentShortName: VADProc ParentValue: = "Yes, imple explanted", and explant	ent had a pump pocket in the physical locatio positive cultures from <i>ungeLow:</i> <i>ungeHigh:</i> anted or Removed planted", "Yes, or "Yes, implanted	t infection. A p on of the pump, the pocket site. <i>Format:</i> <i>DataLength:</i>	located preperitoneally Text (categorical value	<i>Core:</i> <i>Harvest:</i> defined as a or intra-	No No
Short Name: PVCmpPPI Section Name: Mechanical Card DBTableName AdultData Definition: Indicate if the patie persistent drainage abdominally with p LowValue: UsualRa HighValue: UsualRa Parent Long Name: VAD Impl ParentShortName: VADProc ParentValue: = "Yes, imp explanted", and explant	ent had a pump pocket in the physical locatio positive cultures from <i>ungeLow:</i> <i>ungeHigh:</i> anted or Removed planted", "Yes, or "Yes, implanted	t infection. A p on of the pump, the pocket site. <i>Format:</i> <i>DataLength:</i>	located preperitoneally Text (categorical value	<i>Core:</i> <i>Harvest:</i> defined as a or intra-	No No
Short Name: PVCmpPPI Section Name: Mechanical Card DBTableName AdultData Definition: Indicate if the patie persistent drainage abdominally with p LowValue: UsualRa HighValue: UsualRa Parent Long Name: VAD Impl ParentShortName: VAD Impl ParentShortName: VADProc ParentValue: = "Yes, imp explanted", and explant ParentHarvestCodes: 2 3 4 Harvest Codes:	ent had a pump pocket in the physical locatio positive cultures from <i>ungeLow:</i> <i>ungeHigh:</i> anted or Removed planted", "Yes, or "Yes, implanted	t infection. A p on of the pump, the pocket site. <i>Format:</i> <i>DataLength:</i>	located preperitoneally Text (categorical value	<i>Core:</i> <i>Harvest:</i> defined as a or intra-	No No

STS AUUIL Carulac S	urgery Database			Versio	n: 2.81
Long Name: VA	D-Primary VAD Comp-VAD End	locarditis		SeqNo:	4050
Short Name: PVO	CmpEnd			Core:	No
Section Name: Mec	chanical Cardiac Assist Devices			Harvest:	No
DBTableName Adu	ultData				
blood - in - gr	te if the patient had VAD endocar contacting surface of the VAD de ternal surfaces; raft material; flow/outflow valves of the VAD.			infection of	the
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:	VAD Implanted or Removed	Format:	Text (categorical values	s specified by	STS)
ParentShortName:	VADProc	DataLength:			
ParentValue:	= "Yes, implanted", "Yes, explanted", or "Yes, implanted and explanted"	Data Source:	User		
ParentHarvestCode	s: 2 3 4				
Harvest Code	es:				
Cod	le: Value:				
	1 Yes				
	2 No				
Ũ	D-Primary VAD Comp-Device M	alfunction		SeqNo:	4055
	CmpMal			Core:	No
Section Name: Mec	chanical Cardiac Assist Devices			Harvest:	No
DBTableName Adu	ultData				
	te if the pump itself is not function ing immediate intervention or VA	01 1 2	using hemodynamic con	npromise, and	l/or
LowValue: HighValue:	UsualRangeLow: UsualRangeHigh:				
Parent Long Name:	VAD Implanted or Removed	Format:	Text (categorical values	s specified by	STS)
ParentShortName:	VADProc	DataLength:			
ParentValue:	= "Yes, implanted", "Yes, explanted", or "Yes, implanted and explanted"	Data Source:	User		
ParentHarvestCode	s: 2 3 4				
Harvest Code	es:				
That vest Cour					
	le: Value:				
	<u>le: Value:</u> 1 Yes				

STS Adult Cardiac Su	urgery Database		Versio	n: 2.81
Long Name: VAI	D-Primary VAD Comp-Hemolysis	S	SeqNo:	4060
Short Name: PVC	CmpHem		Core:	Nc
Section Name: Mec	hanical Cardiac Assist Devices		Harvest:	Nc
DBTableName Adu	ıltData			
			emolysis (anemia, low hematocrit,) mg/dl within 72 hours of VAD impla	nt.
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
Parent Long Name:	VAD Implanted or Removed	Format:	Text (categorical values specified by	STS)
ParentShortName:	VADProc	DataLength:		
ParentValue:	= "Yes, implanted", "Yes, explanted", or "Yes, implanted and explanted"	Data Source:	User	
ParentHarvestCode.	s: 2 3 4			
Harvest Code	·S.			
	le: <u>Value:</u>			
	1 Yes			
	2 No			
Long Name: VAI	D-Primary VAD Comp-Bowel Ob	ostruction	SeqNo:	4065
Short Name: PVC	CmpBO		Core:	Nc
Section Name: Mec	hanical Cardiac Assist Devices		Harvest:	Nc
DBTableName Adu	ıltData			
	te if the patient was diagnosed wit entation in the medical record.	th a bowel obstr	ruction post VAD insertion by	
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
Parent Long Name:	VAD Implanted or Removed	Format:	Text (categorical values specified by	STS)
ParentShortName:	VADProc	DataLength:		
ParentValue:	= "Yes, implanted", "Yes, explanted", or "Yes, implanted and explanted"	Data Source:	User	
	*			
ParentHarvestCode.	s: 2 3 4			
ParentHarvestCode. Harvest Code Cod	s:			
Harvest Code <u>Cod</u>				

STS Adult Cardiac Surgery Database			Versior	n: 2.81
Long Name: Other Card-AFib Epicardial Lesions			SeqNo:	4070
Short Name: OCarAFibEpLes			Core:	Yes
Section Name: Other Cardiac Procedures		Н	arvest:	Yes
DBTableName AdultData				
Definition: Indicate whether epicardial lesions were	created for the	purpose of AFib ablation.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Other Card	Format:	Text (categorical values sp	becified by	STS)
ParentShortName: OpOCard	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Names Other Cord ASD Densir DEO Tures			CogNor	4075
Long Name: Other Card-ASD Repair - PFO Type Short Name: OCarASDPFO			SeqNo:	4075 Vac
Short Name: OCarASDFFO Section Name: Other Cardiac Procedures		н	Core: arvest:	Yes Yes
		11	urvesi.	103
DBTableName AdultData				
<i>Definition:</i> Indicate whether a patent foramen ovale	(PFO) was repa	aired.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:		T	· (* 11	(TTC)
Parent Long Name: Other Card	Format:	Text (categorical values sp	becified by	STS)
ParentShortName: OpOCard	DataLength:	TT		
ParentValue: = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

	gery Database		Version	: 2.81
Long Name: Other	Card-Atrial Appendage Proced	ure	SeqNo:	408
Short Name: OCar.	AAProc		Core:	Ye
Section Name: Other	Cardiac Procedures		Harvest:	Ye
DBTableName Adult	Data			
Definition: Indicate	whether atrial appendage ligation	on/exclusion wa	s performed.	
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
Parent Long Name:	Other Card	Format:	Text (categorical values specified by S	STS)
ParentShortName: C	DpOCard	DataLength:		
ParentValue: =	= "Yes"	Data Source:	User	
ParentHarvestCodes:	1			
Harvest Codes:				
	Value:			
<u></u>	RAA			
2	LAA			
3	Both			
4	No			
Short Name:OCarSection Name:OtherDBTableNameAdult	Cardiac Procedures		Core: Harvest:	Ye Ye
	which arrhythmia correction de procedure.	evice was surgic	ally placed in conjunction with the prin	nary
LowValue:	UsualRangeLow:			
. * *				
HighValue:	UsualRangeHigh:			
HighValue: Parent Long Name: (0 0	Format:	Text (categorical values specified by S	STS)
	Other Card	Format: DataLength:	Text (categorical values specified by S	STS)
Parent Long Name: (ParentShortName: (Other Card			STS)
Parent Long Name: (ParentShortName: (Other Card DpOCard = "Yes"	DataLength:		STS)
Parent Long Name: (ParentShortName: (ParentValue: = ParentHarvestCodes:	Other Card DpOCard = "Yes"	DataLength:		STS)
Parent Long Name: O ParentShortName: O ParentValue: = ParentHarvestCodes: Harvest Codes	Other Card DpOCard = "Yes" 1 and Value Definitions:	DataLength: Data Source:		STS)
Parent Long Name: O ParentShortName: O ParentValue: = ParentHarvestCodes: Harvest Codes	Other Card DpOCard = "Yes" 1	DataLength: Data Source: Definition:		
Parent Long Name: O ParentShortName: O ParentValue: = ParentHarvestCodes: Harvest Codes <u>Code</u> :	Other Card DpOCard = "Yes" 1 and Value Definitions: <u>Value:</u>	DataLength: Data Source: Definition: An internal rate. An internal	User electronic generator that controls the he permanent pacemaker that uses ir electrical stimulation to synchronize	

STS Adult Cardiac Surgery Database	Version: 2.81 An internal AICD that uses biventricular electrical
5 ICD with CRT	stimulation to synchronize ventricular contraction.
6 Implantable recorder	
1 None	
Long Name: Other Card-Lead Insertion	SeqNo: 4090
Short Name: OCarLeadInsert	Core: Ye
Section Name: Other Cardiac Procedures	Harvest: Ye
DBTableName AdultData	
Definition: Indicate whether lead(s) insertion w	was performed. Do not capture temporary lead placement.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Other Card	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: OpOCard	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes:	
Code: Value:	
1 Yes	
1 Yes 2 No	
2 No	Il Therapy SeaNo: 409:
2 No Long Name: Other Card-Myocardial Stem Cel	
2 No Long Name: Other Card-Myocardial Stem Cell Short Name: OCarStemCell	ell Therapy SeqNo: 409: Core: Ye Harvest: Ye
2 No Long Name: Other Card-Myocardial Stem Cell Short Name: Other Cardiac Procedures	Core: Ye
2 No Long Name: Other Card-Myocardial Stem Cell Short Name: OCarStemCell Section Name: Other Cardiac Procedures DBTableName AdultData	Core: Ye Harvest: Ye
2 No Long Name: Other Card-Myocardial Stem Cell Short Name: OCarStemCell Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether myocardial stem c	Core: Ye Harvest: Ye
2 No Long Name: Other Card-Myocardial Stem Cell Short Name: OCarStemCell Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether myocardial stem c LowValue: UsualRangeLow:	Core: Ye Harvest: Ye
2 No Long Name: Other Card-Myocardial Stem Cell Short Name: OCarStemCell Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether myocardial stem c LowValue: UsualRangeLow: HighValue: UsualRangeHigh:	Core: Ye Harvest: Ye
2 No Long Name: Other Card-Myocardial Stem Cell Short Name: OCarStemCell Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether myocardial stem c LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card	Core: Ye Harvest: Ye cell procedure was performed. <i>Format:</i> Text (categorical values specified by STS)
2 No Long Name: Other Card-Myocardial Stem Cell Short Name: OCarStemCell Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether myocardial stem c LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card	<i>Core:</i> Ye <i>Harvest:</i> Ye cell procedure was performed.
2 No Long Name: Other Card-Myocardial Stem Cell Short Name: OCarStemCell Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether myocardial stem c LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card ParentShortName: OpOCard ParentValue: = "Yes"	Core: Ye Harvest: Ye cell procedure was performed. Format: Text (categorical values specified by STS) DataLength:
2 No Long Name: Other Card-Myocardial Stem Cell Short Name: OCarStemCell Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether myocardial stem c LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card ParentShortName: OpOCard ParentValue: = "Yes"	Core: Ye Harvest: Ye cell procedure was performed. Format: Text (categorical values specified by STS) DataLength:
2 No Long Name: Other Card-Myocardial Stem Cell Short Name: OCarStemCell Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether myocardial stem c LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card ParentShortName: OpOCard ParentValue: = "Yes" ParentHarvestCodes: 1	Core: Ye Harvest: Ye cell procedure was performed. Format: Text (categorical values specified by STS) DataLength:
2 No Long Name: Other Card-Myocardial Stem Cell Short Name: OCarStemCell Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether myocardial stem c LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card ParentShortName: OpOCard ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes:	Core: Ye Harvest: Ye cell procedure was performed. Format: Text (categorical values specified by STS) DataLength:

STS Adult Cardiac Surgery Database		Version	n: 2.81
Long Name: Other Card-Transmyocardial Las	er Revascularizatio	n SeqNo:	4100
Short Name: OCarLasr		Core:	Yes
Section Name: Other Cardiac Procedures		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether the patient underw myocardium with a laser fiber either		multiple channels in left ventricular th, or as the primary surgical procedure.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Other Card	Format:	Text (categorical values specified by	STS)
ParentShortName: OpOCard	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source.	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
Long Name: Other Card-AFib Intracardiac Le	sions	SeqNo:	4105
Short Name: OCarAFibIntraLes		Core:	Yes
Section Name: Other Cardiac Procedures		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether intracardiac lesion	s were created for t	he purpose of AFib ablation.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Other Card	Format:	Text (categorical values specified by	STS)
ParentShortName: OpOCard	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source.	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			

STS Adult Cardiac Surg	gery Database			Versio	n: 2.81
Long Name: Other	Card-ASD Repair - Secundum	Or Sinus Venos	sus	SeqNo:	4110
Short Name: OCar	ASDSec			Core:	Ye
Section Name: Other	Cardiac Procedures			Harvest:	Yes
DBTableName Adult	Data				
Definition: Indicate	whether a secundum or sinus v	enosus ASD wa	s repaired.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name: (Other Card	Format:	Text (categorical val	ues specified by	STS)
ParentShortName: O	pOCard	DataLength:			
ParentValue: =	"Yes"	Data Source:	User		
ParentHarvestCodes:	1				
Harvest Codes:					
	Value:				
1	Yes				
2	No				
Short Name: OCarA Section Name: Other (urgery-Lead Ext	raction	SeqNo: Core: Harvest:	Ye
Short Name: OCarA Section Name: Other O DBTableName Adult	ACDLE Cardiac Procedures Data			Core: Harvest:	4120 Yes Yes
Short Name: OCarA Section Name: Other O DBTableName Adult	ACDLE Cardiac Procedures Data whether procedure included lea			Core: Harvest:	Ye
Short Name: OCarA Section Name: Other (DBTableName Adult) Definition: Indicate	ACDLE Cardiac Procedures Data whether procedure included lea			Core: Harvest:	Ye
Short Name: OCarA Section Name: Other O DBTableName Adult Definition: Indicate arrhythm	ACDLE Cardiac Procedures Data whether procedure included lea ias.			Core: Harvest:	Ye
Short Name: OCarA Section Name: Other (DBTableName Adult) Definition: Indicate arrhythm LowValue:	ACDLE Cardiac Procedures Data whether procedure included lea ias. UsualRangeLow: UsualRangeHigh:			Core: Harvest: reat cardiac	Ye Ye
Short Name: OCarA Section Name: Other (DBTableName Adult) Definition: Indicate y arrhythm LowValue: HighValue: Parent Long Name: (ACDLE Cardiac Procedures Data whether procedure included lea ias. UsualRangeLow: UsualRangeHigh:	d extraction for	a device intended to t	Core: Harvest: reat cardiac	Ye Ye
Short Name: OCarA Section Name: Other (DBTableName Adult) Definition: Indicate arrhythm LowValue: HighValue: Parent Long Name: O ParentShortName: O	ACDLE Cardiac Procedures Data whether procedure included lea ias. UsualRangeLow: UsualRangeHigh: Other Card	d extraction for <i>Format:</i>	a device intended to t Text (categorical valu	Core: Harvest: reat cardiac	Ye Ye
Short Name: OCarA Section Name: Other (DBTableName Adult) Definition: Indicate arrhythm LowValue: HighValue: Parent Long Name: O ParentShortName: O	ACDLE Cardiac Procedures Data whether procedure included lea ias. UsualRangeLow: UsualRangeHigh: Other Card PpOCard "Yes"	d extraction for <i>Format:</i> <i>DataLength:</i>	a device intended to t Text (categorical valu	Core: Harvest: reat cardiac	Ye Ye
Short Name: OCarA Section Name: Other (DBTableName Adult) Definition: Indicate arrhythm LowValue: HighValue: Parent Long Name: O ParentShortName: O ParentValue: =	ACDLE Cardiac Procedures Data whether procedure included lea ias. UsualRangeLow: UsualRangeHigh: Other Card PpOCard "Yes"	d extraction for <i>Format:</i> <i>DataLength:</i>	a device intended to t Text (categorical valu	Core: Harvest: reat cardiac	Ye Ye
Short Name: OCarA Section Name: Other (DBTableName Adult) Definition: Indicate y arrhythm LowValue: HighValue: Parent Long Name: O ParentShortName: O ParentValue: = ParentHarvestCodes: Harvest Codes:	ACDLE Cardiac Procedures Data whether procedure included lea ias. UsualRangeLow: UsualRangeHigh: Other Card PpOCard "Yes"	d extraction for <i>Format:</i> <i>DataLength:</i>	a device intended to t Text (categorical valu	Core: Harvest: reat cardiac	Ye Ye
Short Name: OCarA Section Name: Other (DBTableName Adult) Definition: Indicate y arrhythm LowValue: HighValue: Parent Long Name: O ParentShortName: O ParentValue: = ParentHarvestCodes: Harvest Codes:	ACDLE Cardiac Procedures Data whether procedure included lea ias. UsualRangeLow: UsualRangeHigh: Other Card DpOCard "Yes" 1	d extraction for <i>Format:</i> <i>DataLength:</i>	a device intended to t Text (categorical valu	Core: Harvest: reat cardiac	Ye Ye
Short Name: OCarA Section Name: Other O DBTableName Adult Definition: Indicate arrhythm LowValue: HighValue: Parent Long Name: O ParentShortName: O ParentValue: = ParentHarvestCodes: Harvest Codes: <u>Code</u> :	ACDLE Cardiac Procedures Data whether procedure included lea ias. UsualRangeLow: UsualRangeHigh: Other Card pOCard "Yes" 1 <u>Value:</u>	d extraction for <i>Format:</i> <i>DataLength:</i>	a device intended to t Text (categorical valu	Core: Harvest: reat cardiac	Ye Ye
Short Name: OCarA Section Name: Other (DBTableName Adult) Definition: Indicate v arrhythm LowValue: HighValue: Parent Long Name: O ParentShortName: O ParentValue: = ParentHarvestCodes: Harvest Codes: 3	ACDLE Cardiac Procedures Data whether procedure included lea ias. UsualRangeLow: UsualRangeHigh: Other Card pOCard "Yes" 1 <u>Value:</u> Yes, planned Yes, unplanned due to	d extraction for <i>Format:</i> <i>DataLength:</i>	a device intended to t Text (categorical value	Core: Harvest: reat cardiac	Ye Ye

STS Adult Cardiac Surgery Database		Version: 2.
Long Name: Other Card-LVA		SeqNo: 4
Short Name: OCarLVA		Core:
Section Name: Other Cardiac Procedures		Harvest:
DBTableName AdultData		
<i>Definition:</i> Indicate whether the patient had a as the primary surgical procedure.	Left Ventricular Ane	urysm Repair either in conjunction with, o
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Other Card	Format:	Text (categorical values specified by STS
ParentShortName: OpOCard	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: Other Card-Pulmonary Thrombo	oembolectomy	SeqNo: 4
Short Name: OCPulThromDis		Core:
Section Name: Other Cardiac Procedures		Harvest:
DBTableName AdultData		
Definition: Indicate whether the patient had su	irgery for pulmonary	thromboembolic disease.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Other Card	Format:	Text (categorical values specified by STS
ParentShortName: OpOCard	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
2 Yes, Acute		
2 Yes, Acute3 Yes, Chronic		

STS Adult Cardiac Surgery Database		Versi	on: 2.81
Long Name: Other Card-Subaortic Stenosis Resect	ion	SeqNo:	4135
Short Name: OCarSubaStenRes		Core:	Ye
Section Name: Other Cardiac Procedures		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether resection of subaortic s	tenosis was per	formed.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Other Card	Format:	Text (categorical values specified b	y STS)
ParentShortName: OpOCard	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
<u>Code:</u> <u>Value:</u>			
1 Yes			
2 No			
Short Name: OCarSubaStenResTy	ion Type	SeqNo: Core: Harvest:	Ye
	ion Type	Core:	Yes
Short Name: OCarSubaStenResTy	ion Type	Core:	4140 Yes Yes
Short Name:OCarSubaStenResTySection Name:Other Cardiac Procedures	юп туре	Core:	Yes
Short Name: OCarSubaStenResTy Section Name: Other Cardiac Procedures DBTableName AdultData	юп туре	Core:	Yes
Short Name:OCarSubaStenResTySection Name:Other Cardiac ProceduresDBTableNameAdultDataDefinition:Indicate the type of subaortic stenosis.LowValue:UsualRangeLow:HighValue:UsualRangeHigh:	юп туре	Core:	Yes
Short Name:OCarSubaStenResTySection Name:Other Cardiac ProceduresDBTableNameAdultDataDefinition:Indicate the type of subaortic stenosis.LowValue:UsualRangeLow:HighValue:UsualRangeHigh:	Format:	Core:	Yes Yes
Short Name:OCarSubaStenResTySection Name:Other Cardiac ProceduresDBTableNameAdultDataDefinition:Indicate the type of subaortic stenosis.LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Other Card-Subaortic Stenosis		Core: Harvest:	Yes Yes
Short Name:OCarSubaStenResTySection Name:Other Cardiac ProceduresDBTableNameAdultDataDefinition:Indicate the type of subaortic stenosis.LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Other Card-Subaortic Stenosis Resection	Format:	Core: Harvest: Text (categorical values specified b	Yes Yes
Short Name:OCarSubaStenResTySection Name:Other Cardiac ProceduresDBTableNameAdultDataDefinition:Indicate the type of subaortic stenosis.LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Other Card-Subaortic Stenosis ResectionParentShortName:OCarSubaStenRes	Format: DataLength:	Core: Harvest: Text (categorical values specified b	Yes Yes
Short Name:OCarSubaStenResTySection Name:Other Cardiac ProceduresDBTableNameAdultDataDefinition:Indicate the type of subaortic stenosis.LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Other Card-Subaortic Stenosis ResectionParentShortName:OCarSubaStenResParentValue:= "Yes"	Format: DataLength:	Core: Harvest: Text (categorical values specified b	Yes Yes
Short Name: OCarSubaStenResTy Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate the type of subaortic stenosis. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card-Subaortic Stenosis Resection ParentShortName: OCarSubaStenRes ParentValue: = "Yes" ParentHarvestCodes: 1	Format: DataLength:	Core: Harvest: Text (categorical values specified b	Yes Yes
Short Name: OCarSubaStenResTy Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate the type of subaortic stenosis. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card-Subaortic Stenosis Resection ParentShortName: OCarSubaStenRes ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes:	Format: DataLength:	Core: Harvest: Text (categorical values specified b	Yes Yes
Short Name: OCarSubaStenResTy Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate the type of subaortic stenosis. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card-Subaortic Stenosis Resection ParentShortName: OCarSubaStenRes ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes: <u>Code: Value:</u>	Format: DataLength:	Core: Harvest: Text (categorical values specified b	Yes Yes
Short Name: OCarSubaStenResTy Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate the type of subaortic stenosis. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card-Subaortic Stenosis Resection ParentShortName: OCarSubaStenRes ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes: <u>Code: Value:</u> 1 Muscle	Format: DataLength:	Core: Harvest: Text (categorical values specified b	Yes Yes
Short Name: OCarSubaStenResTy Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate the type of subaortic stenosis. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card-Subaortic Stenosis Resection ParentShortName: OCarSubaStenRes ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes: <u>Code: Value:</u> 1 Muscle 2 Ring	Format: DataLength:	Core: Harvest: Text (categorical values specified b	Yes Yes

STS Adult Card	liac Surgery Database	Versior	n: 2.81
Long Name:	Other Card-Surgical Ventricular Restoration	SeqNo:	4145
Short Name:	OCarSVR	Core:	Yes
Section Name:	Other Cardiac Procedures	Harvest:	Yes

DBTableName AdultData

Definition: Indicate whether the patient had a Surgical Ventricular Restoration either in conjunction with, or as the primary surgical procedure. Surgical Ventricular Restorations are procedures that restore the geometry of the heart after an anterior MI. They include the Dor procedure or the SAVER procedure. This SVR procedure is distinct from an anterior left ventricular aneurysmectomy (LVA) and from a Batista procedure (left ventricular volume reduction procedure).

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Other Card	Format:	Text (categorical values specified by STS)
ParentShortName:	OpOCard	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCode	s: 1		

Harvest Codes:

Code: Value: 1 Yes 2 No

Long Name:	Other Card-Tumor	SeqNo:	4150
Short Name:	OCTumor	Core:	Yes
Section Name:	Other Cardiac Procedures	Harvest:	Yes

DBTableName AdultData

Definition: Indicate whether the patient had resection of an intracardiac tumor.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Other Card	Format:	Text (categorical values specified by STS)
ParentShortName:	OpOCard	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCodes	s: 1		

Harvest Codes:

Code: Value:

- 2 Myxoma
- 3 Fibroelastoma
- 4 Hypernephroma
- 5 Sarcoma
- 6 Other
- 1 No

STS Adult Cardiac Surgery Database		Version	
Long Name: Other Card-Card Tx		SeqNo:	4152
Short Name: OCarCrTx		Core:	Yes
Section Name: Other Cardiac Procedures		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether the patient had a H conjunction with, or as the primary s		topic heart transplantation either in	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Other Card	Format:	Text (categorical values specified by	y STS)
ParentShortName: OpOCard	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
<u> </u>			
2 No			
Long Name: Other Card-Cardiac Trauma		SeqNo:	4153
Short Name: OCarTrma		Core:	Yes
Section Name: Other Cardiac Procedures		Harvest:	Yes
DBTableName AdultData			
		r an injury due to Cardiac Trauma eit	her in
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Other Card	Format:	Text (categorical values specified by	y STS)
ParentShortName: OpOCard	DataLength:		
ParentValue: = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Cardiac Surgery Database		Version:	2.81
Long Name: Other Card-VSD		SeqNo:	415
Short Name: OCarVSD		Core:	Ye
Section Name: Other Cardiac Procedures		Harvest:	Ye
DBTableName AdultData			
Definition: Indicate whether the patient had a W the primary surgical procedure.	entricular Septal De	efect Repair either in conjunction with,	or as
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Other Card	Format:	Text (categorical values specified by S	STS)
ParentShortName: OpOCard	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
3 Yes, congenital			
4 Yes, acquired			
2 No			
Long Name: Other Card-Other		SeqNo:	4160
Short Name: OCarOthr		Core:	Ye
Section Name: Other Cardiac Procedures		Harvest:	Ye
DBTableName AdultData			
Definition: Indicate whether the patient had and as the primary surgical procedure the		ure performed either in conjunction wit ithin this section.	h, or
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Other Card	Format:	Text (categorical values specified by S	STS)
ParentShortName: OpOCard	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Hul vest codes.			
<u>Code:</u> <u>Value:</u>			

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Other Card-Congenital		SeqNo: 4162
Short Name: OCarCong		<i>Core:</i> Ye
Section Name: Other Cardiac Procedures		Harvest: Ye
DBTableName AdultData		
		air either in conjunction with, or as the ortic valve or PFO here as these are captured
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Other Card	Format:	Text (categorical values specified by STS)
ParentShortName: OpOCard	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: Other Card-ASD		SeqNo: 416:
Short Name: OCarASD		Core: No
Short Name: OCarASD		
Short Name: OCarASD Section Name: Other Cardiac Procedures		Harvest: No
Section Name: Other Cardiac Procedures		Harvest: No
Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether the patient had an		<i>Harvest:</i> No Repair either in conjunction with, or as the ASD, Secundum; ASD, Sinus venosus; and
Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether the patient had an primary surgical procedure includin		Repair either in conjunction with, or as the
Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether the patient had an primary surgical procedure includin PFO.		Repair either in conjunction with, or as the
Section Name:Other Cardiac ProceduresDBTableNameAdultDataDefinition:Indicate whether the patient had an primary surgical procedure includin PFO.LowValue:UsualRangeLow:		Repair either in conjunction with, or as the
Section Name:Other Cardiac ProceduresDBTableNameAdultDataDefinition:Indicate whether the patient had an primary surgical procedure includin PFO.LowValue:UsualRangeLow: UsualRangeHigh:	ng but not limited to	Repair either in conjunction with, or as the ASD, Secundum; ASD, Sinus venosus; and
Section Name:Other Cardiac ProceduresDBTableNameAdultDataDefinition:Indicate whether the patient had an primary surgical procedure includin PFO.LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Other Card	ng but not limited to Format:	Repair either in conjunction with, or as the ASD, Secundum; ASD, Sinus venosus; and Text (categorical values specified by STS)
Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether the patient had an primary surgical procedure includin PFO. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card ParentShortName: OpOCard	ng but not limited to Format: DataLength:	Repair either in conjunction with, or as the ASD, Secundum; ASD, Sinus venosus; and Text (categorical values specified by STS)
Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether the patient had an primary surgical procedure includin PFO. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card ParentShortName: OpOCard ParentValue: = "Yes"	ng but not limited to Format: DataLength:	Repair either in conjunction with, or as the ASD, Secundum; ASD, Sinus venosus; and Text (categorical values specified by STS)
Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether the patient had an primary surgical procedure includin PFO. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card ParentShortName: OpOCard ParentValue: = "Yes" ParentHarvestCodes: 1	ng but not limited to Format: DataLength:	Repair either in conjunction with, or as the ASD, Secundum; ASD, Sinus venosus; and Text (categorical values specified by STS)
Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether the patient had an primary surgical procedure includin PFO. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card ParentShortName: OpOCard ParentHarvestCodes: 1 Harvest Codes: 1	ng but not limited to Format: DataLength:	Repair either in conjunction with, or as the ASD, Secundum; ASD, Sinus venosus; and Text (categorical values specified by STS)

STS Adult Cardiac Surgery Database		Versior	n: 2.81
Long Name: Other Card-ASD-Type		SeqNo:	4170
Short Name: OCarASDTy		Core:	No
Section Name: Other Cardiac Procedures	I	Harvest:	No
DBTableName AdultData			
Definition: Indicate the type of Atrial Septal Defect.			
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:			
Parent Long Name: Other Card-ASD	Format: Text (categorical values s	specified by	STS)
ParentShortName: OCarASD	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source: User		
ParentHarvestCodes: 1			
Harvest Codes and Value Definitions:			
Code: Value:	Definition:		
1 Secundum	An ASD confined to the region of the most common etiology is a deficiency primum, but deficiency of the limbus secundum may also contribute.	of the septu	
2 Sinus Venosus	An ASD with a vena cava or pulmona that overrides the atrial septum or the fold (septum secundum) producing an anomalous venoatrial communication term sinus venosus atrial septal defect used, the lesion is more properly term communication because, while it func interatrial communication, this lesion the true atrial septum.	superior inte interatrial c . Although t is common ed a sinus ve tions as an	eratrial or the ly enosus
3 PFO	Small interatrial communication in the foramen ovale characterized by no de septum primum and a normal limbus of the septum secundum.	ficiency of the	he

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Other Card-Endovascular Procedure	(TEVAR):		SeqNo:	4185
Short Name: EndoProc			Core:	No
Section Name: Other Cardiac Procedures			Harvest:	No
DBTableName AdultData				
Definition: Indicate whether an aortic endovascular	stent graft was	performed/deployed.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Other Card	Format:	Text (categorical value	s specified by	STS)
ParentShortName: OpOCard	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Other Card-Endovascular Debranchin	ng		SeqNo:	4190
Short Name: EndoProcDeb			Core:	No
Section Name: Other Cardiac Procedures			Harvest:	No
DBTableName AdultData				
Definition: Indicate whether debranching was performed	ormed.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Other Card-Endovascular Procedure (TEVAR):	Format:	Text (categorical value	s specified by	STS)
ParentShortName: EndoProc	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Other Card-AFib Lesion Location		<i>SeqNo:</i> 4191
Short Name: OCarAFibLesLoc		Core: Yes
Section Name: Other Cardiac Procedures		Harvest: Yes
DBTableName AdultData		
Definition: Indicate the location of the majority of	lesions created t	o treat atrial fibrillation.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Atrial Fibrillation Procedure Performed	Format:	Text (categorical values specified by STS)
ParentShortName: AFibProc	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Primarily epicardial		
2 Primarily Intracardiac		
		G N 4105
Long Name: Other Card-Lesions Documented		SeqNo: 4195
Short Name: OCarLesDoc		Core: Yes
Section Name: Other Cardiac Procedures		Harvest: Yes
DBTableName AdultData		
<i>Definition:</i> Indicate whether the lesions created dur	ring the atrial fib	brillation surgery are documented.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Atrial Fibrillation Procedure Performed	Format:	Text (categorical values specified by STS)
ParentShortName: AFibProc	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		

	atabase			Versio	n: 2.81
0	trial Fibrillation Surgical dio Frequency	Procedure-Me	thod of Lesion	SeqNo:	4200
Short Name: OCarAFibMe	ethRad			Core:	Yes
Section Name: Other Cardiac	Procedures			Harvest:	Yes
DBTableName AdultData					
Definition: Indicate whether radio frequency.	r the method used to crea	te the lesion(s)	for the AFib ablation	procedure inclu	ded
LowValue: Usual	RangeLow:				
HighValue: Usual	lRangeHigh:				
Parent Long Name: Other C Docume		Format:	Text (categorical valu	es specified by	STS)
ParentShortName: OCarLes	sDoc	DataLength:			
<i>ParentValue:</i> = "Yes"		Data Source:	User		
ParentHarvestCodes: 1					
Harvest Codes:					
Code: Value	2				
1 Yes	_				
2 No					
	trial Fibrillation Surgical	Procedure-Me	thod of Lesion	SeqNo:	4205
Creation - Rad	dio Frequency - Bipolar	l Procedure-Me	thod of Lesion	SeqNo: Core:	4205 Yes
Creation - Rad	dio Frequency - Bipolar ethRadBi	l Procedure-Me	thod of Lesion	-	
Creation - Rad Short Name: OCarAFibMe	dio Frequency - Bipolar ethRadBi	l Procedure-Me	thod of Lesion	Core:	Yes
Creation - Rad Short Name: OCarAFibMe Section Name: Other Cardiac DBTableName AdultData	dio Frequency - Bipolar ethRadBi			Core: Harvest:	Yes Yes
Creation - Rad Short Name: OCarAFibMe Section Name: Other Cardiac DBTableName AdultData Definition: Indicate whether bipolar.	dio Frequency - Bipolar ethRadBi Procedures			Core: Harvest:	Yes Yes
Creation - Rad Short Name: OCarAFibMe Section Name: Other Cardiac DBTableName AdultData Definition: Indicate whether bipolar. LowValue: Usual	dio Frequency - Bipolar ethRadBi Procedures r the radiofrequency met			Core: Harvest:	Yes Yes
Creation - Rad Short Name: OCarAFibMe Section Name: Other Cardiac DBTableName AdultData Definition: Indicate whether bipolar. LowValue: Usual HighValue: Usual Parent Long Name: Other C Surgical	dio Frequency - Bipolar ethRadBi Procedures r the radiofrequency met <i>RangeLow:</i> <i>RangeHigh:</i> ard-Atrial Fibrillation l Procedure-Method of Creation - Radio			Core: Harvest: AFib ablation	Yes Yes was
Creation - Rad Short Name: OCarAFibMe Section Name: Other Cardiac DBTableName AdultData Definition: Indicate whether bipolar. LowValue: Usual HighValue: Usual Parent Long Name: Other C Surgical Lesion O Frequen	dio Frequency - Bipolar ethRadBi Procedures r the radiofrequency met <i>RangeLow:</i> <i>RangeHigh:</i> ard-Atrial Fibrillation l Procedure-Method of Creation - Radio	hod used to cre	ate the lesion(s) for the	Core: Harvest: AFib ablation	Yes Yes was
Creation - Rad Short Name: OCarAFibMe Section Name: Other Cardiac DBTableName AdultData Definition: Indicate whether bipolar. LowValue: Usual HighValue: Usual Parent Long Name: Other C Surgical Lesion O Frequen	dio Frequency - Bipolar ethRadBi Procedures r the radiofrequency met <i>RangeLow:</i> <i>RangeHigh:</i> ard-Atrial Fibrillation l Procedure-Method of Creation - Radio	hod used to cre Format:	ate the lesion(s) for the Text (categorical valu	Core: Harvest: AFib ablation	Yes Yes was
Creation - Rad Short Name: OCarAFibMe Section Name: Other Cardiac DBTableName AdultData Definition: Indicate whether bipolar. LowValue: Usual HighValue: Usual Parent Long Name: Other C Surgical Lesion O Frequen ParentShortName: OCarAF	dio Frequency - Bipolar ethRadBi Procedures r the radiofrequency met <i>RangeLow:</i> <i>RangeHigh:</i> ard-Atrial Fibrillation l Procedure-Method of Creation - Radio	hod used to cre Format: DataLength:	ate the lesion(s) for the Text (categorical valu	Core: Harvest: AFib ablation	Yes Yes was
Creation - Rad Short Name: OCarAFibMe Section Name: Other Cardiac DBTableName AdultData Definition: Indicate whether bipolar. LowValue: Usual HighValue: Usual Parent Long Name: Other C Surgical Lesion O Frequen ParentShortName: OCarAF ParentValue: = "Yes"	dio Frequency - Bipolar ethRadBi Procedures r the radiofrequency met <i>RangeLow:</i> <i>RangeHigh:</i> ard-Atrial Fibrillation l Procedure-Method of Creation - Radio	hod used to cre Format: DataLength:	ate the lesion(s) for the Text (categorical valu	Core: Harvest: AFib ablation	Yes Yes was
Creation - Rad Short Name: OCarAFibMe Section Name: Other Cardiac DBTableName AdultData Definition: Indicate whether bipolar. LowValue: Usual HighValue: Usual Parent Long Name: Other C Surgical Lesion O Frequent ParentShortName: OCarAF ParentValue: = "Yes" ParentHarvestCodes: 1	dio Frequency - Bipolar ethRadBi Procedures r the radiofrequency met <i>RangeLow:</i> <i>RangeHigh:</i> ard-Atrial Fibrillation I Procedure-Method of Creation - Radio Icy ibMethRad	hod used to cre Format: DataLength:	ate the lesion(s) for the Text (categorical valu	Core: Harvest: AFib ablation	Yes Yes was
Creation - Rad Short Name: OCarAFibMe Section Name: Other Cardiac DBTableName AdultData Definition: Indicate whether bipolar. LowValue: Usual HighValue: Usual Parent Long Name: Other C Surgical Lesion O Frequen ParentShortName: OCarAF ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes:	dio Frequency - Bipolar ethRadBi Procedures r the radiofrequency met <i>RangeLow:</i> <i>RangeHigh:</i> ard-Atrial Fibrillation I Procedure-Method of Creation - Radio Icy ibMethRad	hod used to cre Format: DataLength:	ate the lesion(s) for the Text (categorical valu	Core: Harvest: AFib ablation	Yes Yes was

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Other Card-Atrial Fibrillation Surgical Procedure-M Creation - Cut-And-Sew	Method of LesionSeqNo:4210
Short Name: OCarAFibMethCAS	Core: Yes
Section Name: Other Cardiac Procedures	Harvest: Yes
DBTableName AdultData	
Definition: Indicate whether the method used to create the lesion(cut-and-sew.	s) for the AFib ablation procedure included
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:Other Card-LesionsFormat:Documented	Text (categorical values specified by STS)
ParentShortName: OCarLesDoc DataLength	:
ParentValue: = "Yes" Data Source	e: User
ParentHarvestCodes: 1	
Harvest Codes:	
<u>Code: Value:</u>	
1 Yes	
2 No	
Long Name: Other Card-Atrial Fibrillation Surgical Procedure-M Creation - Cryo	Aethod of Lesion SeqNo: 4215
Short Name: OCarAFibMethCryo	Core: Yes
Section Name: Other Cardiac Procedures	Harvest: Yes
DBTableName AdultData	
<i>Definition:</i> Indicate whether the method used to create the lesion(cryoablation.	s) for the AFib ablation procedure included
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:Other Card-LesionsFormat:Documented	Text (categorical values specified by STS)
ParentShortName: OCarLesDoc DataLength	:
ParentValue: = "Yes" Data Source	e: User
ParentHarvestCodes: 1	
Harvest Codes:	
Code: Value:	
1 Yes	
2 No	

STS Adult Cardiac Surgery Database			Versior	n: 2.81
Long Name: Other Card-Atrial Fibrillation Surgi	cal Procedure	Se	qNo:	4220
Short Name: OCarAFibSur			Core:	No
Section Name: Other Cardiac Procedures		Harv	vest:	No
DBTableName AdultData				
<i>Definition:</i> Indicate whether atrial fibrillation correction with another procedure.	rection surgery wa	as performed as the primary pr	ocedure	or in
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Other Card	Format:	Text (categorical values spec	ified by	STS)
ParentShortName: OpOCard	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Other Card-Atrial Fibrillation Surgi	cal Procedure-Lo	cation Se	aNo	4225
Long Name: Other Card-Atrial Fibrillation Surgi	cal Procedure-Lo		qNo: Core:	4225 No
Long Name: Other Card-Atrial Fibrillation Surgi Short Name: OCarAFibSurLoc Section Name: Other Cardiac Procedures	cal Procedure-Lo		Core:	4225 No No
Short Name: OCarAFibSurLoc Section Name: Other Cardiac Procedures	cal Procedure-Lo		Core:	No
Short Name: OCarAFibSurLoc Section Name: Other Cardiac Procedures DBTableName AdultData			Core:	No
Short Name: OCarAFibSurLoc Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate the location of the AFib ablat			Core:	No
Short Name: OCarAFibSurLoc Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate the location of the AFib ablat LowValue: UsualRangeLow:			Core:	No
Short Name: OCarAFibSurLoc Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate the location of the AFib ablat	ion procedure.		Core: vest:	No No
Short Name: OCarAFibSurLoc Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate the location of the AFib ablat LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card-Atrial Fibrillation	ion procedure.	Harv	Core: vest:	No No
Short Name: OCarAFibSurLoc Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate the location of the AFib ablat LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card-Atrial Fibrillation Surgical Procedure	ion procedure. Format:	Harv Text (categorical values spec	Core: vest:	No No
Short Name: OCarAFibSurLoc Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate the location of the AFib ablat LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card-Atrial Fibrillation Surgical Procedure ParentShortName: OCarAFibSur	ion procedure. Format: DataLength:	Harv Text (categorical values spec	Core: vest:	No No
Short Name: OCarAFibSurLoc Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate the location of the AFib ablat LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card-Atrial Fibrillation Surgical Procedure ParentShortName: OCarAFibSur ParentValue: = "Yes"	ion procedure. Format: DataLength:	Harv Text (categorical values spec	Core: vest:	No No
Short Name: OCarAFibSurLoc Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate the location of the AFib ablat LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card-Atrial Fibrillation Surgical Procedure ParentShortName: OCarAFibSur ParentValue: = "Yes" ParentHarvestCodes: 1	ion procedure. Format: DataLength:	Harv Text (categorical values spec	Core: vest:	No No
Short Name: OCarAFibSurLoc Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate the location of the AFib ablat LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card-Atrial Fibrillation Surgical Procedure ParentShortName: OCarAFibSur ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes:	ion procedure. Format: DataLength:	Harv Text (categorical values spec	Core: vest:	No No
Short Name: OCarAFibSurLoc Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate the location of the AFib ablat LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card-Atrial Fibrillation Surgical Procedure ParentShortName: OCarAFibSur ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes: <u>Code: Value:</u>	ion procedure. Format: DataLength:	Harv Text (categorical values spec	Core: vest:	No No

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Other Card-Atrial Fibrillation Surgic Obliterated	al Procedure-Le	eft Atrial Appendage	SeqNo:	4230
Short Name: OCarAFibSurLAA			Core:	No
Section Name: Other Cardiac Procedures			Harvest:	No
DBTableName AdultData				
<i>Definition:</i> Indicate whether left atrial appendage w clipping, and/or plication.	vas obliterated.	Includes oversewing, l	igation, stapling	g,
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Other Card-Atrial Fibrillation Surgical Procedure	Format:	Text (categorical value	ues specified by	v STS)
ParentShortName: OCarAFibSur	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Other Card-Atrial Fibrillation Surgic Creation - Ultrasound	al Procedure-M	ethod of Lesion	SeqNo:	4235
Short Name: OCarAFibMethUltra			Core:	No
Section Name: Other Cardiac Procedures			Harvest:	No
DBTableName AdultData				
<i>Definition:</i> Indicate whether the method used to creatly ultrasound.	eate the lesion for	or the AFib ablation pro	ocedure include	d
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Other Card-Atrial Fibrillation Surgical Procedure	Format:	Text (categorical value	ues specified by	v STS)
ParentShortName: OCarAFibSur	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database		Versio	n: 2.81
Long Name: Other Card-Atrial Fibrillation Creation - Microwave	n Surgical Procedure-Method of Lesion	SeqNo:	4240
Short Name: OCarAFibMethMicro		Core:	No
Section Name: Other Cardiac Procedures		Harvest:	No
DBTableName AdultData			
<i>Definition:</i> Indicate whether the method us microwave.	ed to create the lesion for the AFib ablation	procedure include	ed
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Other Card-Atrial Fibri Surgical Procedure	llation Format: Text (categorical v	alues specified by	v STS)
ParentShortName: OCarAFibSur	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source: User		
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
<u> </u>			
2 No			
Long Name: Other Card-Atrial Fibrillation Creation - Laser	n Surgical Procedure-Method of Lesion	SeqNo:	4245
Short Name: OCarAFibMethLas		Core:	No
Section Name: Other Cardiac Procedures		Harvest:	No
DBTableName AdultData			
Definition: Indicate whether the method us	ed to create the lesion for the AFib ablation	procedure include	d laser.
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Other Card-Atrial Fibri Surgical Procedure	llation <i>Format:</i> Text (categorical v	alues specified by	v STS)
ParentShortName: OCarAFibSur	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source: User		
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: AFib Lesion Location - Pulmonary V	ein Isolation		SeqNo:	4250
Short Name: AFibLes1			Core:	Ye
Section Name: Other Cardiac Procedures			Harvest:	Ye
DBTableName AdultData				
Definition: Indicate whether the afib lesion was pul	monary vein iso	lation.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Other Card-Lesions Documented	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: OCarLesDoc	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: AFib Lesion Location - Box Lesion			SeqNo:	4255
Short Name: AFibLes2			Core:	Yes
Section Name: Other Cardiac Procedures			Harvest:	Ye
DBTableName AdultData				
Definition: Indicate whether the afib lesion was a b	ox lesion			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Other Card-Lesions Documented	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: OCarLesDoc	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database		Version: 2	.81
Long Name: AFib Lesion Location - Infer	ior Pulmonary Vein Connecting Lesion	SeqNo: 4	26
Short Name: AFibLes3a		Core:	Ye
Section Name: Other Cardiac Procedures		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether the afib lesion	was an Inferior Pulmonary Vein Connectin	g Lesion	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Other Card-Lesions Documented	Format: Text (categorical)	values specified by ST	S)
ParentShortName: OCarLesDoc	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source: User		
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
	erior Pulmonary Vein Connecting Lesion	1	265
Short Name: AFibLes3b			Yes
Section Name: Other Cardiac Procedures		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether the afib lesion	was a Superior Pulmonary Vein Connectin	g Lesion	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			~
Parent Long Name: Other Card-Lesions Documented	Format: Text (categorical)	values specified by ST	5)
ParentShortName: OCarLesDoc	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source: User		
	Data Source: User		
	Data Source: User		
ParentHarvestCodes: 1	Data Source: User		
ParentHarvestCodes: 1 Harvest Codes:	Data Source: User		

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: AFib Lesion Location - Pos	terior Mitral Annular Line SeqNo: 4270
Short Name: AFibLes4	<i>Core:</i> Yes
Section Name: Other Cardiac Procedures	Harvest: Yes
DBTableName AdultData	
Definition: Indicate whether the afib lesion	n was a Posterior Mitral Annular Line
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Other Card-Lesions Documented	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: OCarLesDoc	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes:	
Code: Value:	
1 Yes	
2 No	
Mitral Annulus	nonary Vein Connecting Lesion to Anterior SeqNo: 4275
Short Name: AFibLes5	Core: Yes
Section Name: Other Cardiac Procedures	Harvest: Yes
DBTableName AdultData	
Definition: Indicate whether the afib lesion Annulus lesion.	n was a - Pulmonary Vein Connecting Lesion to Anterior Mitral
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Other Card-Lesions Documented	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: OCarLesDoc	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes:	
Code: Value:	
1 Yes	

STS Adult Cardiac Surgery Database		Version: 2.	81
Long Name: AFib Lesion Location - Mitral Val	ve Cryo Lesion	SeqNo: 42	280
Short Name: AFibLes6		Core:	Yes
Section Name: Other Cardiac Procedures		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether the afib lesion was a	a Mitral Valve Cry	vo Lesion	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Other Card-Lesions Documented	Format:	Text (categorical values specified by STS	3)
ParentShortName: OCarLesDoc	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
	(* / D 1		205
Long Name: AFib Lesion Location - LAA Liga	tion/Removal	1	285
Short Name: AFibLes7 Section Name: Other Cardiac Procedures			Yes
		narvesi:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether the left Atrial Appendix	ndage was ligated	or removed	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Other Card-Lesions Documented	Format:	Text (categorical values specified by STS	5)
ParentShortName: OCarLesDoc	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Cardiac Surgery Database			Versio	า: 2.81
Long Name: AFib Lesion Location - Pulmo	onary Vein to LAA		SeqNo:	4290
Short Name: AFibLes8			Core:	Ye
Section Name: Other Cardiac Procedures			Harvest:	Ye
DBTableName AdultData				
Definition: Indicate whether the afib lesion	was a Pulmonary Vein	to LAA lesion		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Other Card-Lesions Documented	Format:	Text (categorical value	es specified by	STS)
ParentShortName: OCarLesDoc	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Lang Names AFib Lagion Lagation Intern	aval Lina ta Triavanid	A poulus ('T' losion)	SagNat	4295
Long Name: AFib Lesion Location - Interc	avai Line to Theuspia	Aminunus (1 lesion)	SeqNo: Core:	
Short Name: AFibLog0				
Short Name: AFibLes9 Section Name: Other Cardiac Procedures				Yes
Section Name: Other Cardiac Procedures			Harvest:	
Section Name: Other Cardiac Procedures DBTableName AdultData	was an Intercaval Line	to Tricuspid Appulus (Harvest:	
Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether the afib lesion	was an Intercaval Line	to Tricuspid Annulus (Harvest:	
Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether the afib lesion v LowValue: UsualRangeLow:	was an Intercaval Line	to Tricuspid Annulus (Harvest:	
Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether the afib lesion of LowValue: UsualRangeLow: HighValue: UsualRangeHigh:			Harvest: T' lesion)	Yes
Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether the afib lesion of LowValue: UsualRangeLow: HighValue: UsualRangeHigh:	was an Intercaval Line <i>Format</i> :	to Tricuspid Annulus (Text (categorical value	Harvest: T' lesion)	Yes
Section Name:Other Cardiac ProceduresDBTableNameAdultDataDefinition:Indicate whether the afib lesion ofLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Other Card-Lesions			Harvest: T' lesion)	Yes
Section Name: Other Cardiac ProceduresDBTableNameAdultDataDefinition:Indicate whether the afib lesion ofLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Other Card-Lesions Documented	Format:	Text (categorical value	Harvest: T' lesion)	Yes
Section Name:Other Cardiac ProceduresDBTableNameAdultDataDefinition:Indicate whether the afib lesion ofLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Other Card-Lesions DocumentedParentShortName:OCarLesDoc	Format: DataLength:	Text (categorical value	Harvest: T' lesion)	Yes
Section Name: Other Cardiac ProceduresDBTableNameAdultDataDefinition:Indicate whether the afib lesion ofLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Other Card-Lesions DocumentedParentShortName:OCarLesDocParentValue:= "Yes"	Format: DataLength:	Text (categorical value	Harvest: T' lesion)	Yes
Section Name: Other Cardiac ProceduresDBTableNameAdultDataDefinition:Indicate whether the afib lesion ofLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Other Card-Lesions DocumentedParentShortName:OCarLesDocParentValue:= "Yes"ParentHarvestCodes:1	Format: DataLength:	Text (categorical value	Harvest: T' lesion)	Yes
Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether the affb lesion of LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Other Card-Lesions Documented ParentShortName: OCarLesDoc ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes:	Format: DataLength:	Text (categorical value	Harvest: T' lesion)	Yes

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: AFib Lesion Location - Tricusp	oid Cryo Lesion, Med	lial (10)	SeqNo:	4300
Short Name: AFibLes10			Core:	Ye
Section Name: Other Cardiac Procedures			Harvest:	Ye
DBTableName AdultData				
Definition: Indicate whether the afib lesion w	as a Tricuspid Cryo	Lesion, Medial (10)		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Other Card-Lesions Documented	Format:	Text (categorical value	es specified by	STS)
ParentShortName: OCarLesDoc	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source	: User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: AFib Lesion Location - Intercar	val Line		SeqNo:	4305
Short Name: AFibLes11			Core:	Yes
Section Name: Other Cardiac Procedures			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the afib lesion w	as an Intercaval Line	;		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Other Card-Lesions Documented	Format:	Text (categorical value	es specified by	STS)
ParentShortName: OCarLesDoc	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source	: User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: AFib Lesion Location - Tricuspid Ar	nnular Line to RA	AA	SeqNo:	4310
Short Name: AFibLes12			Core:	Yes
Section Name: Other Cardiac Procedures			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the afib lesion was a T	Fricuspid Annula	r Line to RAA lesion		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Other Card-Lesions Documented	Format:	Text (categorical value	es specified by	STS)
ParentShortName: OCarLesDoc	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
	T · (10)			4015
Long Name: AFib Lesion Location - Tricuspid Cr	ryo Lesion (13)		SeqNo:	4315
Short Name: AFibLes13			Core:	Yes
Section Name: Other Cardiac Procedures			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate whether the afib lesion was a T	Fricuspid Cryo L	esion (13)		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Other Card-Lesions Documented	Format:	Text (categorical value	es specified by	STS)
ParentShortName: OCarLesDoc	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database		Versi	on: 2.81
Long Name: AFib Lesion Location - RAA Ligat	tion/Removal	SeqNo:	4320
Short Name: AFibLes14		Core:	Yes
Section Name: Other Cardiac Procedures		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether the Right Atrial App	endage was ligate	ed or removed	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Other Card-Lesions Documented	Format:	Text (categorical values specified b	y STS)
ParentShortName: OCarLesDoc	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
			42.25
Long Name: AFib Lesion Location - RAA Later	al Wall (Short)	SeqNo:	4325
Short Name: AFibLes15a		Core:	Yes
Section Name: Other Cardiac Procedures		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether the afib lesion was a	RAA Lateral Wa	ll (Short) lesion	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Other Card-Lesions Documented	Format:	Text (categorical values specified b	y STS)
ParentShortName: OCarLesDoc	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: AFib Lesion Location - RAA Late	ral Wall to 'T' Lesi	on	SeqNo:	4330
Short Name: AFibLes15b			Core:	Yes
Section Name: Other Cardiac Procedures			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the afib lesion was a	a RAA Lateral Wa	ll to 'T' Lesion		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Other Card-Lesions Documented	Format:	Text (categorical value	s specified by	STS)
ParentShortName: OCarLesDoc	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: AFib Lesion Location - Other			SeqNo:	4335
Short Name: AFibLes16			Core:	Yes
Section Name: Other Cardiac Procedures			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate whether the afib lesion was a	a lesion other than	those previously describ	ed	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Other Card-Lesions Documented	Format:	Text (categorical value	s specified by	STS)
ParentShortName: OCarLesDoc	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac S	urgery Database		Vers	ion: 2.81
Long Name: Aor	tic Procedure Location - Root		SeqNo:	434
Short Name: Aor	tProcRoot		Core:	Ye
Section Name: Othe	er Cardiac Procedures		Harvest:	Ye
DBTableName Ad	ultData			
Definition: Indica	te whether the aortic procedure lo	cation involved	the aortic root.	
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
	Aortic Procedure Performed	Format:	Text (categorical values specified b	oy STS)
ParentShortName:	AortProc	DataLength:		
ParentValue:	= "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	Data Source:	User	
ParentHarvestCode	es: 3 4 5			
Harvest Code	es:			
Coc	<u>le: Value:</u>			
	1 Yes			
	2 No			
Long Names Aor	tia Propadura Lagation Assandi	20	SeqNo:	434
-	tic Procedure Location - Ascendir tProcAsc	ig	Core:	Ye
	er Cardiac Procedures		Harvest:	Ye
DBTableName Adv			11 <i>01 vest</i> .	10
			the second in a control	
	te whether the aortic procedure lo		the ascending dolta.	
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			(TTC)
-	Aortic Procedure Performed	Format:	Text (categorical values specified b	by 515)
ParentShortName:	AortProc	DataLength:		
D	— "Vag nlannad" "Vag	Data Source:	User	
ParentValue:	= "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"			
ParentValue: ParentHarvestCode	unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"			
	unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy" s: 3 4 5			
ParentHarvestCode Harvest Code	unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy" s: 3 4 5			
ParentHarvestCode Harvest Code	unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy" as: 3 4 5 es:			

STS Adult Cardiac S	urgery Database			Versio	n: 2.81
Long Name: Aor	tic Procedure Location - Hemi-Ar	ch		SeqNo:	4350
Short Name: Aor	tProcHemi			Core:	Yes
Section Name: Othe	er Cardiac Procedures			Harvest:	Yes
DBTableName Ad	ultData				
Definition: Indica	te whether the aortic procedure lo	cation involved	the hemi arch		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:	Aortic Procedure Performed	Format:	Text (categorical value	s specified by	STS)
ParentShortName:	AortProc	DataLength:			
ParentValue:	= "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	Data Source:	User		
ParentHarvestCode	<i>s</i> : 3 4 5				
Harvest Code	es:				
<u>Coo</u>	le: Value:				
	1 Yes				
	2 No				
Long Name: Aor	tic Procedure Location - Total Are	ch		SeqNo:	4355
0	tProcTotArch			Core:	Yes
	er Cardiac Procedures			Harvest:	Yes
DBTableName Ad	ultData				
	te whether the aortic procedure lo	cation involved	the total arch		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
0	Aortic Procedure Performed	Format:	Text (categorical value	s specified by	STS)
ParentShortName:	AortProc	DataLength:	Ϋ́ Ϋ́	1 2	,
ParentValue:	= "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	Data Source:	User		
ParentHarvestCode	s: 3 4 5				
ParentHarvestCode Harvest Code					
Harvest Code					
	25:				

STS Audit Cardiac S	urgery Database		Versi	on: 2.81
Long Name: Aor	tic Procedure Location - Descend	ling - Proximal	SeqNo:	436
Short Name: Aor	tProcDesProx		Core:	Ye
Section Name: Othe	er Cardiac Procedures		Harvest:	Ye
DBTableName Ad	ultData			
Definition: Indica	te whether the aortic procedure lo	ocation involved	the proximal descending aorta.	
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
-	Aortic Procedure Performed	Format:	Text (categorical values specified b	y STS)
ParentShortName:		DataLength:		-
ParentValue:	= "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	Data Source:	User	
ParentHarvestCode	<i>es</i> : 3 4 5			
Harvest Code	es:			
<u>Coc</u>	<u>le:</u> <u>Value:</u>			
	1 Yes			
	2 No			
Long Name: Aor Short Name: Aor	2 No tic Procedure Location - Descend tProcDesMid	ling - Mid	SeqNo: Core: Usernosti	436 Ye
Long Name: Aor Short Name: Aor Section Name: Oth	2 No tic Procedure Location - Descend tProcDesMid er Cardiac Procedures	ling - Mid		Ye
Long Name: Aor Short Name: Aor Section Name: Othe DBTableName Adv	2 No tic Procedure Location - Descend TProcDesMid er Cardiac Procedures ultData	-	Core: Harvest:	Ye
Long Name: Aor Short Name: Aor Section Name: Othe DBTableName Adv	2 No tic Procedure Location - Descend tProcDesMid er Cardiac Procedures	-	Core: Harvest:	Ye
Long Name: Aor Short Name: Aor Section Name: Oth DBTableName Adr Definition: Indica LowValue:	2 No tic Procedure Location - Descend tProcDesMid er Cardiac Procedures ultData te whether the aortic procedure lo <i>UsualRangeLow:</i>	-	Core: Harvest:	Ye
Long Name: Aor Short Name: Aor Section Name: Othe DBTableName Adv Definition: Indica LowValue: HighValue:	2 No tic Procedure Location - Descend tProcDesMid er Cardiac Procedures ultData te whether the aortic procedure lo <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i>	ocation involved	Core: Harvest: the mid descending aorta.	Ye Ye
Long Name: Aor Short Name: Aor Section Name: Othe DBTableName Adv Definition: Indica LowValue: HighValue:	2 No tic Procedure Location - Descend tProcDesMid er Cardiac Procedures ultData te whether the aortic procedure lo <i>UsualRangeLow:</i>	-	Core: Harvest:	Ye Ye
Long Name: Aor Short Name: Aor Section Name: Oth DBTableName Adu Definition: Indica LowValue: HighValue: Parent Long Name: ParentShortName:	2 No tic Procedure Location - Descend rtProcDesMid er Cardiac Procedures ultData te whether the aortic procedure lo <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Aortic Procedure Performed AortProc	ocation involved Format: DataLength:	Core: Harvest: the mid descending aorta. Text (categorical values specified b	Yo Yo
Long Name: Aor Short Name: Aor Section Name: Othe DBTableName Adu Definition: Indica LowValue: HighValue: Parent Long Name:	2 No tic Procedure Location - Descend tProcDesMid er Cardiac Procedures ultData te whether the aortic procedure lo <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Aortic Procedure Performed	ocation involved	Core: Harvest: the mid descending aorta. Text (categorical values specified b	Ye Ye
Long Name: Aor Short Name: Aor Section Name: Oth DBTableName Adu Definition: Indica LowValue: HighValue: Parent Long Name: ParentShortName: ParentValue:	2 No tic Procedure Location - Descend tProcDesMid er Cardiac Procedures ultData te whether the aortic procedure loc <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Aortic Procedure Performed AortProc = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	ocation involved Format: DataLength:	Core: Harvest: the mid descending aorta. Text (categorical values specified b	Ye Ye
Long Name: Aor Short Name: Aor Section Name: Oth DBTableName Adu Definition: Indica LowValue: HighValue: Parent Long Name: ParentShortName:	2 No tic Procedure Location - Descendent rtProcDesMid er Cardiac Procedures ultData te whether the aortic procedure loc <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Aortic Procedure Performed AortProc = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy" <i>ts:</i> 3 4 5	ocation involved Format: DataLength:	Core: Harvest: the mid descending aorta. Text (categorical values specified b	Ye Ye
Long Name: Aor Short Name: Aor Section Name: Othe DBTableName Adu Definition: Indica LowValue: HighValue: Parent Long Name: ParentShortName: ParentValue: ParentHarvestCode Harvest Code	2 No tic Procedure Location - Descendent rtProcDesMid er Cardiac Procedures ultData te whether the aortic procedure loc <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Aortic Procedure Performed AortProc = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy" <i>ts:</i> 3 4 5	ocation involved Format: DataLength:	Core: Harvest: the mid descending aorta. Text (categorical values specified b	Ye Ye
Long Name: Aor Short Name: Aor Section Name: Othe DBTableName Adu Definition: Indica LowValue: HighValue: Parent Long Name: ParentShortName: ParentValue: ParentHarvestCode Harvest Code	2 No tic Procedure Location - Descendent tProcDesMid er Cardiac Procedures ultData te whether the aortic procedure loc <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Aortic Procedure Performed AortProc = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy" <i>us:</i> 3 4 5 es:	ocation involved Format: DataLength:	Core: Harvest: the mid descending aorta. Text (categorical values specified b	Ye Ye

	urgery Database		Vers	sion: 2.81
Long Name: Aor	tic Procedure Location - Descend	ing - Distal	SeqNo:	437
Short Name: Aor	tProcDesDist		Core	: Ye
Section Name: Othe	er Cardiac Procedures		Harvest:	Ye
DBTableName Adu	ıltData			
Definition: Indica	te whether the aortic procedure lo	cation involved	the distal descending aorta.	
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
Parent Long Name:	Aortic Procedure Performed	Format:	Text (categorical values specified	by STS)
ParentShortName:	AortProc	DataLength:		
ParentValue:	= "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	Data Source:	User	
ParentHarvestCode	s: 3 4 5			
Harvest Code	es:			
Cod	le: <u>Value:</u>			
	1 Yes			
	2 No			
Leve Manager A and	tic Procedure Location - Thoraco	ah daminal	C - N -	10.5
0		aodonnia	SeqNo:	
Short Name: Aor	tProcThora	aodominar	Core	: Ye
Short Name: Aor Section Name: Othe	tProcThora er Cardiac Procedures	aodoninai	_	: Ye
Short Name: Aor Section Name: Othe DBTableName Add	tProcThora er Cardiac Procedures ultData		Core. Harvest:	: Ye
Short Name: Aor Section Name: Othe DBTableName Adu Definition: Indica	tProcThora er Cardiac Procedures ultData te whether the aortic procedure lo		Core. Harvest:	: Ye
Short Name: Aor Section Name: Othe DBTableName Adu Definition: Indica LowValue:	tProcThora er Cardiac Procedures ultData te whether the aortic procedure lo <i>UsualRangeLow:</i>		Core. Harvest:	: Ye
Short Name: Aor Section Name: Othe DBTableName Adu Definition: Indica LowValue: HighValue:	tProcThora er Cardiac Procedures ultData te whether the aortic procedure lo <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i>	cation involved	Core. Harvest: the thoracoabdominal aorta.	: Ye Ye
Short Name: Aor Section Name: Othe DBTableName Adu Definition: Indica LowValue: HighValue: Parent Long Name:	tProcThora er Cardiac Procedures altData te whether the aortic procedure lo <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Aortic Procedure Performed	cation involved Format:	Core. Harvest:	: Ye Ye
Short Name: Aor Section Name: Othe DBTableName Adu Definition: Indica LowValue: HighValue: Parent Long Name: ParentShortName:	tProcThora er Cardiac Procedures ultData te whether the aortic procedure lo <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Aortic Procedure Performed AortProc	cation involved Format: DataLength:	Core Harvest: the thoracoabdominal aorta. Text (categorical values specified	: Ye Ye
Short Name: Aor Section Name: Othe DBTableName Adu Definition: Indica LowValue: HighValue: Parent Long Name:	tProcThora er Cardiac Procedures altData te whether the aortic procedure lo <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Aortic Procedure Performed	cation involved Format:	Core Harvest: the thoracoabdominal aorta. Text (categorical values specified	: Ye Ye
Short Name: Aor Section Name: Othe DBTableName Adu Definition: Indica LowValue: HighValue: Parent Long Name: ParentShortName:	tProcThora er Cardiac Procedures ultData te whether the aortic procedure lo <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Aortic Procedure Performed AortProc = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	cation involved Format: DataLength:	Core Harvest: the thoracoabdominal aorta. Text (categorical values specified	: Ye Ye
Short Name: Aor Section Name: Othe DBTableName Adu Definition: Indica LowValue: HighValue: Parent Long Name: ParentShortName: ParentValue:	tProcThora er Cardiac Procedures altData te whether the aortic procedure lo <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Aortic Procedure Performed AortProc = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy" s: 3 4 5	cation involved Format: DataLength:	Core Harvest: the thoracoabdominal aorta. Text (categorical values specified	: Ye Ye
Short Name: Aor Section Name: Othe DBTableName Adu Definition: Indica LowValue: HighValue: Parent Long Name: ParentShortName: ParentValue: ParentHarvestCode Harvest Code	tProcThora er Cardiac Procedures altData te whether the aortic procedure lo <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Aortic Procedure Performed AortProc = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy" s: 3 4 5	cation involved Format: DataLength:	Core Harvest: the thoracoabdominal aorta. Text (categorical values specified	: Ye Ye
Short Name: Aor Section Name: Othe DBTableName Adu Definition: Indica LowValue: HighValue: Parent Long Name: ParentShortName: ParentValue: ParentHarvestCode Harvest Code	tProcThora er Cardiac Procedures altData te whether the aortic procedure lo <i>UsualRangeLow:</i> <i>UsualRangeHigh:</i> Aortic Procedure Performed AortProc = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy" s: 3 4 5	cation involved Format: DataLength:	Core Harvest: the thoracoabdominal aorta. Text (categorical values specified	: Ye: Ye:

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Aortic Procedure Synthetic Graf	t Used SeqNo: 4380
Short Name: SynthGft	Core: Yes
Section Name: Other Cardiac Procedures	Harvest: Yes
DBTableName AdultData	
Definition: Indicate whether a synthetic graft w	was used in the aortic procedure.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Aortic Procedure Performe	ed <i>Format:</i> Text (categorical values specified by STS)
ParentShortName: AortProc	DataLength:
ParentValue: = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspec disease or anatomy"	Data Source: User
ParentHarvestCodes: 3 4 5	
Harvest Codes:	
Code: Value:	
1 Yes	
2 No	
Long Name: Aortic Procedure Synthetic Graf	t Type - Intercostal Vessels Re-implanted SeqNo: 4385
Short Name: SynthGftInter	Core: Yes
Section Name: Other Cardiac Procedures	Harvest: Yes
DBTableName AdultData	
Definition: Indicate whether intercostal vessel	s were reimplanted in conjunction with use of the synthetic graft.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Aortic Procedure Synthetic Graft Used	c Format: Text (categorical values specified by STS)
ParentShortName: SynthGft	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes:	
<u>Code:</u> <u>Value:</u>	
<u>Code:</u> <u>Value:</u> 1 Yes	

			Versio	n: 2.81
Long Name: Aortic Procedure Synthetic Graft	Гуре - CSF Draina	ge Utilized	SeqNo:	439
Short Name: SynthGftCSF			Core:	Ye
Section Name: Other Cardiac Procedures			Harvest:	Ye
DBTableName AdultData				
Definition: Indicate whether Cerebrospinal fluid graft.	drainage was utiliz	zed in conjunction wit	h use of the synt	hetic
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Aortic Procedure Synthetic Graft Used	Format:	Text (categorical val	ues specified by	STS)
ParentShortName: SynthGft	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
$\frac{1}{1}$ Yes				
2 No				
Long Name: Aortic Procedure Synthetic Graft	Гуре - Elephant Tr	unk	SeqNo:	4395
	Гуре - Elephant Tr	unk	SeqNo: Core:	
Short Name: SynthGftEleph	Гуре - Elephant Tr	unk	•	Yes
Short Name:SynthGftElephSection Name:Other Cardiac Procedures	Гуре - Elephant Tr	unk	Core:	Yes
Short Name:SynthGftElephSection Name:Other Cardiac ProceduresDBTableNameAdultData			Core:	Yes
Short Name:SynthGftElephSection Name:Other Cardiac ProceduresDBTableNameAdultDataDefinition:Indicate whether an 'elephant trunk'			Core:	Yes
Short Name:SynthGftElephSection Name:Other Cardiac ProceduresDBTableNameAdultDataDefinition:Indicate whether an 'elephant trunk'			Core:	4395 Yes Yes
Short Name:SynthGftElephSection Name:Other Cardiac ProceduresDBTableNameAdultDataDefinition:Indicate whether an 'elephant trunk'LowValue:UsualRangeLow:HighValue:UsualRangeHigh:			Core: Harvest:	Ye: Ye:
Short Name:SynthGftElephSection Name:Other Cardiac ProceduresDBTableNameAdultDataDefinition:Indicate whether an 'elephant trunk'LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Aortic Procedure Synthetic Graft Used	synthetic graft was	sutilized.	Core: Harvest:	Ye: Ye:
Short Name:SynthGftElephSection Name:Other Cardiac ProceduresDBTableNameAdultDataDefinition:Indicate whether an 'elephant trunk'LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Aortic Procedure Synthetic Graft Used	synthetic graft was Format:	utilized. Text (categorical val	Core: Harvest:	Ye: Ye:
Short Name:SynthGftElephSection Name:Other Cardiac ProceduresDBTableNameAdultDataDefinition:Indicate whether an 'elephant trunk'LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Aortic Procedure Synthetic Graft UsedParentShortName:SynthGftParentValue:= "Yes"	synthetic graft was Format: DataLength:	utilized. Text (categorical val	Core: Harvest:	Ye: Ye:
Short Name:SynthGftElephSection Name:Other Cardiac ProceduresDBTableNameAdultDataDefinition:Indicate whether an 'elephant trunk'LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Aortic Procedure Synthetic Graft UsedParentShortName:SynthGft	synthetic graft was Format: DataLength:	utilized. Text (categorical val	Core: Harvest:	Ye: Ye:
Short Name: SynthGftEleph Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether an 'elephant trunk' LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Aortic Procedure Synthetic Graft Used ParentShortName: SynthGft ParentValue: = "Yes" ParentHarvestCodes: 1	synthetic graft was Format: DataLength:	utilized. Text (categorical val	Core: Harvest:	Ye: Ye:
Short Name: SynthGftEleph Section Name: Other Cardiac Procedures DBTableName AdultData Definition: Indicate whether an 'elephant trunk' LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Aortic Procedure Synthetic Graft Used ParentShortName: SynthGft ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes:	synthetic graft was Format: DataLength:	utilized. Text (categorical val	Core: Harvest:	Yes Yes

STS Adult Cardiac S	urgery Database		Vers	sion: 2.81
Long Name: Coil	Embolization of Aortic False Lu	men	SeqNo:	440
Short Name: Aor	tProcCoil		Core.	· Ye
Section Name: Othe	er Cardiac Procedures		Harvest:	Ye
DBTableName Adu	ultData			
Definition: Indica	te whether a coil embolization of	the false lumen	was performed.	
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
Parent Long Name:	Aortic Procedure Performed	Format:	Text (categorical values specified	by STS)
ParentShortName:	AortProc	DataLength:		
ParentValue:	= "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	Data Source:	User	
ParentHarvestCode	s: 3 4 5			
Harvest Code	es:			
Cod	le: <u>Value:</u>			
	1 Yes			
	2 No			
Long Name: Aor	tic Procedure TEVAR		SeqNo:	440
-	tProcTEVAR		Core.	Ye
Section Name: Othe	er Cardiac Procedures		Harvest:	Ye
DBTableName Adu	ultData			
Definition: Indica	te whether the aortic procedure w	as a thoracic end	dovascular aneurysm repair (TEVA	R).
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
0	Aortic Procedure Performed	Format:	Text (categorical values specified	by STS)
ParentShortName:	AortProc	DataLength:		
ParentValue:	= "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy"	Data Source:	User	
ParentHarvestCode	s: 3 4 5			
Harvest Code	28:			
Cod	le: Value:			
	1 Yes, with debranching			
	2 Yes, without debranching			

Long Name: Aortic Procedure - Other	<i>SeqNo:</i> 4410
Short Name: AortProcOther	Core: Yes
Section Name: Other Cardiac Procedures	Harvest: Yes
DBTableName AdultData	
Definition: Indicate whether the aortic procedure was a procedure other th	t those previously described.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
	categorical values specified by STS)
ParentShortName: AortProc DataLength:	
ParentValue: = "Yes, planned", "Yes, unplanned due to surgical complication" or "Yes, unplanned due to unsuspected disease or anatomy" Data Source: User	
ParentHarvestCodes: 3 4 5	

Harvest Codes:

Code: Value: 1 Yes

. ...

2 No

Long Name: Other Card-Arrhythmia Correction Su	urgery-Lead Ins	ertion or Replacement	SeqNo:	4415
Short Name: OCarACDLI			Core:	No
Section Name: Other Cardiac Procedures			Harvest:	No
DBTableName AdultData				
<i>Definition:</i> Indicate whether procedure included lea cardiac arrhythmias.	d insertion or re	eplacement for a device	intended to tre	eat
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Other Card-Arrhythmia Device Surgery	Format:	Text (categorical value	es specified by	STS)
ParentShortName: OCarACD	DataLength:			
ParentValue: <pre></pre>	Data Source:	User		
ParentHarvestCodes: 2 3 4 5				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database	Versio	n: 2.81
Long Name: Other Card-Atrial Fibrillation Ablation Procedure	SeqNo:	4420
Short Name: OCarAFibAProc	Core:	No
Section Name: Other Cardiac Procedures	Harvest:	No
DBTableName AdultData		
Definition: Indicate what atrial fibrilation ablation procedure was performed.		
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Other Card-Atrial Fibrillation Format: Text (categorical val Surgical Procedure	ues specified by	STS)
ParentShortName: OCarAFibSur DataLength:		
ParentValue: = "Yes" Data Source: User		
ParentHarvestCodes: 1		
Harvest Codes and Value Definitions:		
Code: Value: Definition:		
1 Primarily epicardial procedure E.g., pulmonary vein isolation wi connection to left atrial appendag		
2 Primarily intracardiac E.g., Maze procedures; lesions to procedure	mitral annulus;	etc.
Long Name: Other Card-Aortic Procedure Type	SeqNo:	4425
Short Name: OCAoProcType	Core:	No
Section Name: Other Cardiac Procedures	Harvest:	No
DBTableName AdultData		
<i>Definition:</i> Indicate the type of aortic procedure performed in conjunction with another p primary procedure.	procedure or as the	ne
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Other Card Format: Text (categorical val	ues specified by	STS)
ParentShortName: OpOCard DataLength:		
ParentValue: = "Yes" Data Source: User		
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 None		
2 Aneurysm		
3 Dissection (including intramural hematoma)		
4 Trauma		

STS Adult Cardiac Surgery Database		Version: 2.81
6 Other		
Long Name: Other Card-Aortic Root		SeqNo: 443
Short Name: ONCAoRt		Core: N
Section Name: Other Cardiac Procedures		Harvest: N
DBTableName AdultData		
Definition: Indicate if the patient underwent repair the primary surgical procedure. Aneury		aneurysm either in conjunction with, or as hologic dilatation of the aorta.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Other Card-Aortic Procedure Type	Format:	Text (categorical values specified by STS)
ParentShortName: OCAoProcType	DataLength:	
<i>ParentValue:</i> = "Aneurysm"	Data Source:	User
ParentHarvestCodes: 2		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: Other Card-Aortic Root Graft		<i>SeqNo:</i> 443.
Short Name: ONCAoGraft		Core: N
Section Name: Other Cardiac Procedures		Harvest: N
DBTableName AdultData		
Definition: Indicate whether a Dacron graft was us junction and the origin of the innomina a Wheat procedure. Also includes valv	te artery) – this i e-sparing root re Dacron graft, re	ascending aorta (between the sinotubular ncludes a "hemiarch" replacement as well as simplantation and remodling operations. If ecord as "yes" and also go to AVR section
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:		
Parent Long Name: Other Card-Aortic Root	Format:	Text (categorical values specified by STS)
ParentShortName: ONCAoRt	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: value:		
<u>Code:</u> <u>Value:</u> 1 Yes		

STS Adult Cardiac Surgery	Database			Versior	า: 2.81
Long Name: Other Care	d-Asc			SeqNo:	4440
Short Name: ONCAsc				Core:	No
Section Name: Other Card	diac Procedures			Harvest:	No
DBTableName AdultData	a				
as the primar ascending ac	e patient underwent repair o ry surgical procedure. Aneu orta begins at the aortic annu ttinues as the transverse arch	rysm refers to p lus and ends at	athologic dilatation of th	e aorta. The	
LowValue: Us	sualRangeLow:				
HighValue: US	sualRangeHigh:				
Parent Long Name: Other Type		Format:	Text (categorical values	specified by	STS)
ParentShortName: OCA	oProcType	DataLength:			
<i>ParentValue:</i> = "Au	neurysm"	Data Source:	User		
ParentHarvestCodes: 2					
Harvest Codes:					
Code: Va	alue:				
1 Ye	es				
2 No	0				
Long Name: Other Care	d-Arch			SeqNo:	4445
Short Name: ONCArch	ı			Core:	No
Section Name: Other Card	diac Procedures			Harvest:	No
DBTableName AdultData	a				
with, or as th and ends ben	te patient underwent repair o ne primary surgical procedur neath the left subclavian arter ee important blood vessels; t rtery.	e. The arch beg ry. It is the port	gins at the origin of the ir ion of the aorta at the top	nominate art of the heart	ery that
LowValue: Us	sualRangeLow:				
HighValue: Us	sualRangeHigh:				
Parent Long Name: Other Type	er Card-Aortic Procedure e	Format:	Text (categorical values	specified by	STS)
ParentShortName: OCA	oProcType	DataLength:			
		Data Source:	User		
	neurysm"	Data Source.			
	neurysm"				
<i>ParentValue:</i> = "At	neurysm"	Duna Source.			
ParentValue: = "An ParentHarvestCodes: 2	-	Luit Source.			
ParentValue: = "An ParentHarvestCodes: 2 Harvest Codes:	<u>alue:</u>				

STS Adult Cardiac Surgery Database		Version: 2	.81
Long Name: Other Card-Arch Repair Extent		SeqNo:	450
Short Name: ONCArchRepExt		Core:	No
Section Name: Other Cardiac Procedures		Harvest:	No
DBTableName AdultData			
<i>Definition:</i> Indicate the extent of the arch repair.			
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Other Card-Arch	Format:	Text (categorical values specified by ST	S)
ParentShortName: ONCArch	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Hemi-Arch			
2 Total Arch			
			-
Long Name: Other Card-Desc		SeqNo: 4	455
Short Name: ONCDesc		Core:	No
Section Name: Other Cardiac Procedures		Harvest:	No
DBTableName AdultData			
		aortic aneurysm either in conjunction wit orta is the portion of the aorta between the	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Other Card-Aortic Procedure Type	Format:	Text (categorical values specified by ST	S)
ParentShortName: OCAoProcType	DataLength:		
<i>ParentValue:</i> = "Aneurysm"	Data Source:	User	
ParentHarvestCodes: 2			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Other Card-Thoracoabdominal Aneu	ırysm	<i>SeqNo:</i> 4460
Short Name: ONCThAbd		Core: No
Section Name: Other Cardiac Procedures		Harvest: No
DBTableName AdultData		
or as the primary surgical procedure. T	horacoabdomina of the left subcl	avian artery to the aortic bifurcation or can
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Other Card-Aortic Procedure Type	Format:	Text (categorical values specified by STS)
ParentShortName: OCAoProcType	DataLength:	
ParentValue: = "Aneurysm"	Data Source:	User
ParentHarvestCodes: 2		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: Other Card-Thoracoabdominal Graft	Replacement	<i>SeqNo:</i> 4465
Short Name: ONCThAbdGraft		Core: No
Section Name: Other Cardiac Procedures		Harvest: No
DBTableName AdultData		
<i>Definition:</i> Indicate whether a graft replacement w	as used.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Other Card-Thoracoabdominal Aneurysm	Format:	Text (categorical values specified by STS)
ParentShortName: ONCThAbd	DataLength:	
ParentShortName: ONCThAbd		
	Data Source:	User
<i>ParentValue:</i> = "Yes"	Data Source:	User
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentValue: = "Yes" ParentHarvestCodes: 1	Data Source:	User
ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes:	Data Source:	User

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Other Card-Thoracoabdominal-Interco	ostal Vessels	<i>SeqNo:</i> 4470
Short Name: ONCThAbdInterVes		Core: No
Section Name: Other Cardiac Procedures		Harvest: No
DBTableName AdultData		
Definition: Indicate whether intercostal vessels were	e re-implanted.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Other Card-Thoracoabdominal Graft Replacement	Format:	Text (categorical values specified by STS)
ParentShortName: ONCThAbdGraft	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: Other Card-Thoracoabdominal-CSF E	Drainage	<i>SeqNo:</i> 4475
Short Name: ONCThAbdLumCSF		Core: No
Section Name: Other Cardiac Procedures		Harvest: No
DBTableName AdultData		
Definition: Indicate whether lumbar CSF drainage v	vas utilized.	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Other Card-Thoracoabdominal Graft Replacement	Format:	Text (categorical values specified by STS)
ParentShortName: ONCThAbdGraft	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
2 N0		

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Other Card-Thoracoabdominal-Extent	t Replaced		SeqNo:	4480
Short Name: ONCThAbdExtent			Core:	Nc
Section Name: Other Cardiac Procedures			Harvest:	Nc
DBTableName AdultData				
Definition: Indicate extent of descending aorta repla	acement.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Other Card-Thoracoabdominal Graft Replacement	Format:	Text (categorical value	s specified by	v STS)
ParentShortName: ONCThAbdGraft	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Proximal				
2 Mid				
3 Distal				
4 Proximal - Mid				
5 Proximal - Mid - Distal				
6 Mid - Distal				
Long Name: Other Card-Aortic Dissection-Acute			SeqNo:	4485
Short Name: AoDisAc			Core:	No
Section Name: Other Cardiac Procedures			Harvest:	No
DBTableName AdultData				
Definition: Indicate whether aortic dissection is acu	te (<14 days pri	or to procedure).		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Other Card-Aortic Procedure Type	Format:	Text (categorical value	s specified by	v STS)
ParentShortName: OCAoProcType	DataLength:			
ParentValue: = "Dissection (including intramural hematoma)"	Data Source:	User		
ParentHarvestCodes: 3				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Other Card-Aortic Dissection Typ	e SeqNo: 4490
Short Name: AoDisTyp	Core: No
Section Name: Other Cardiac Procedures	Harvest: No
DBTableName AdultData	
Definition: Indicate aortic dissection type.	
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Other Card-Aortic Procedure Type	e Format: Text (categorical values specified by STS)
ParentShortName: OCAoProcType	DataLength:
<i>ParentValue:</i> = "Dissection (including intramural hematoma)"	Data Source: User
ParentHarvestCodes: 3	
Harvest Codes and Value Definitions:	
Code: Value:	Definition:
1 Stanford Type A	Dissection extends proximal to the left subclavian artery
2 Stanford Type B	Dissection extends distal to the left subclavian artery
<i>Long Name:</i> Other Card-Aortic Trauma type	SeqNo: 4495
Short Name: AoTrTyp	Core: No
Section Name: Other Cardiac Procedures	Harvest: No
DBTableName AdultData	
<i>Definition:</i> Indicate type of aortic trauma.	
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Other Card-Aortic Procedure Type	e <i>Format:</i> Text (categorical values specified by STS)
ParentShortName: OCAoProcType	DataLength:
ParentValue: = "Trauma"	Data Source: User
ParentHarvestCodes: 4	
Harvest Codes:	
Code: Value:	
1 Blunt	
2 Penetrating	

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Other Card-Congenital Diagnosis 1	<i>SeqNo:</i> 4500
Short Name: OCarCongDiag1	Core: Yes
Section Name: Other Cardiac Procedures	Harvest: Yes
DBTableName AdultData	
Definition: Indicate the first of the three most signif	ficant congenital diagnoses.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: Other Card-Congenital	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: OCarCong	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes and Value Definitions:	
Code: Value:	Definition:
10 PFO	A small interatrial communication (or potential communication) confined to the region of the oval fossa (fossa ovalis) characterized by no deficiency of the primary atrial septum (septum primum) and a normal limbus with no deficiency of the septum secundum (superior interatrial fold).
20 ASD, Secundum	A congenital cardiac malformation in which there is an interatrial communication confined to the region of the oval fossa (fossa ovalis), most commonly due to a deficiency of the primary atrial septum (septum primum) but deficiency of the septum secundum (superior interatrial fold) may also contribute.
30 ASD, Sinus venosus	A congenital cardiac malformation in which there is a caval vein (vena cava) and/or pulmonary vein (or veins) that overrides the atrial septum or the septum secundum (superior interatrial fold) producing an interatrial or anomalous venoatrial communication Although the term sinus venosus atrial septal defect is commonly used, the lesion is more properly termed a sinus venosus communication because, while it functions as an interatrial communication, this lesion is not a defect of the atrial septum.
40 ASD, Coronary sinus	A congenital cardiac malformation in which there is a deficiency of the walls separating the left atrium from the coronary sinus allowing interatrial communication through the coronary sinus ostium.
50 ASD, Common atrium (single atrium)	e Complete absence of the interatrial septum. "Single atrium" is applied to defects with no associated malformation of the atrioventricular valves. "Common atrium" is applied to defects with associated malformation of the atrioventricular valves.
2150 ASD, Postoperative interatria communication	A surgically created communication between the atria.

STS Adult Cardiac Surgery Database

- 71 VSD, Type 1 (Subarterial) (Supracristal) (Conal septal defect) (Infundibular)
- 73 VSD, Type 2 (Perimembranous) (Paramembranous) (Conoventricular)
- 75 VSD, Type 3 (Inlet) (AV canal type)
- 77 VSD, Type 4 (Muscular)
- 79 VSD, Type: Gerbode type (LV-RA communication)
- 80 VSD, Multiple
- 100 AVC (AVSD), Complete (CAVSD)

A VSD that lies beneath the semilunar valve(s) in the conal or outlet septum.

A VSD that is confluent with and involves the membranous septum and is bordered by an atrioventricular valve, not including type 3 VSDs.

A VSD that involves the inlet of the right ventricular septum immediately inferior to the AV valve apparatus.

A VSD completely surrounded by muscle.

A rare form of VSD in which the defect is at the membranous septum; the communication is between the left ventricle and right atrium.

More than one VSD exists. Each individual VSD may be coded separately to specify the individual VSD types.

Indicate if the patient has the diagnosis of "AVC (AVSD), Complete (CAVSD)". An "AVC (AVSD), Complete (CAVSD)" is a "complete atrioventricular canal" or a "complete atrioventricular septal defect" and occurs in a heart with the phenotypic feature of a common atrioventricular junction. An "AVC (AVSD), Complete (CAVSD)" is defined as an AVC with a common AV valve and both a defect in the atrial septum just above the AV valve (ostium primum ASD [a usually crescent-shaped ASD in the inferior (posterior) portion of the atrial septum just above the AV valve]) and a defect in the ventricular septum just below the AV valve. The AV valve is one valve that bridges both the right and left sides of the heart. Balanced AVC is an AVC with two essentially appropriately sized ventricles. Unbalanced AVC is an AVC defect with two ventricles in which one ventricle is inappropriately small. Such a patient may be thought to be a candidate for biventricular repair, or, alternatively, may be managed as having a functionally univentricular heart. AVC lesions with unbalanced ventricles so severe as to preclude biventricular repair should be classified as single ventricles. Rastelli type A: The common superior (anterior) bridging leaflet is effectively split in two at the septum. The left superior (anterior) leaflet is entirely over the left ventricle and the right superior (anterior) leaflet is similarly entirely over the right ventricle. The division of the common superior (anterior) bridging leaflet into left and right components is caused by extensive attachment of the superior (anterior) bridging leaflet to the crest of the ventricular septum by chordae tendineae. Rastelli type B: Rare, involves anomalous papillary muscle attachment from the right side of the ventricular septum to the left side of the common superior (anterior) bridging leaflet. Rastelli type C: Marked bridging of

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the ventricular septum by the superior (anterior) bridging leaflet, which floats freely (often termed a "free-floater") over the ventricular septum without chordal attachment to the crest of the ventricular septum. 110 AVC (AVSD), Intermediate An AVC with two distinct left and right AV valve orifices but also with both an ASD just above and a (transitional) VSD just below the AV valves. While these AV valves in the intermediate form do form two separate orifices they remain abnormal valves. The VSD is often restrictive. AVC (AVSD), Partial An AVC with an ostium primum ASD (a usually crescent-shaped ASD in the inferior (posterior) portion (incomplete) (PAVSD) (ASD, of the atrial septum just above the AV valve) and primum) varying degrees of malformation of the left AV valve leading to varying degrees of left AV valve regurgitation. No VSD is present. AP window (aortopulmonary Indicate if the patient has the diagnosis of "AP window (aortopulmonary window)". An "AP window window) (aortopulmonary window)" is defined as a defect with side-to-side continuity of the lumens of the aorta and pulmonary arterial tree, which is distinguished from common arterial trunk (truncus arteriosus) by the presence of two arterial valves or their atretic remnants. (In other words, an aortopulmonary window is a communication between the main pulmonary artery and ascending aorta in the presence of two separate semilunar [pulmonary and aortic] valves. The presence of two separate semilunar valves distinguishes AP window from truncus arteriosus. Type 1 proximal defect: AP window located just above the sinus of Valsalva, a few millimeters above the semilunar valves, with a superior rim but little inferior rim separating the AP window from the semilunar valves. Type 2 distal defect: AP window located in the uppermost portion of the ascending aorta, with a well-formed inferior rim but little superior rim. Type 3 total defect: AP window involving the majority of the ascending aorta, with little superior and inferior rims. The intermediate type of AP window is similar to the total defect but with adequate superior and inferior rims. In the event of AP window occurring in association with interrupted aortic arch, code "Interrupted aortic arch + AP window (aortopulmonary window)", and then use additional (secondary) diagnostic codes to describe the interrupted aortic arch and AP window separately to provide further documentation about the individual interrupted arch and AP window types.)

> One pulmonary artery arises from the ascending aorta and the other pulmonary artery arises from the right ventricle. DOES NOT include origin of the right or left pulmonary artery from the innominate artery or the aortic arch via a patent ductus arteriosus or collateral

150 Pulmonary artery origin from ascending aorta (hemitruncus)

		artery.
160	Truncus arteriosus	Indicate if the patient has the diagnosis of "Truncus arteriosus". A truncus arteriosus is also known as a common arterial trunk and is defined as a heart in which a single arterial trunk arises from the heart, giving origin to the coronary arteries, the pulmonary arteries, and the systemic arterial circulation. In the majority of instances there is a ventricular septal defect and a single semilunar valve which may contain two, three, four, or more leaflets and is occasionally dysplastic. Often, the infundibular septum is virtually absent superiorly. In most instances the truncal valve overrides the true interventricular septum (and thus both ventricles), but very rarely the truncal valve may override the right ventricle entirely. In such instances, there may be no ventricular septal defect or a very small ventricular septal defect, in which case the left ventricle and mitral valve may be extremely hypoplastic.
170	Truncal valve insufficiency	Functional abnormality - insufficiency - of the truncal valve. May be further subdivided into grade of insufficiency (I, II, III, IV or mild, moderate, severe).
2010	Truncus arteriosus + Interrupted aortic arch	Indicate if the patient has the diagnosis of "Truncus arteriosus + Interrupted aortic arch". {A truncus arteriosus is also known as a common arterial trunk and is defined as a heart in which a single arterial trunk arises from the heart, giving origin to the coronary arteries, the pulmonary arteries, and the systemic arterial circulation. In the majority of instances there is a ventricular septal defect and a single semilunar valve which may contain two, three, four, or more leaflets and is occasionally dysplastic. The infundibular septum is virtually absent superiorly. In most instances the truncal valve overrides the true interventricular septum (and thus both ventricles), but very rarely the truncal valve may override the right ventricle entirely. If in such case there is no ventricular septal defect, then the left ventricle and mitral valve may be extremely hypoplastic.} {Interrupted aortic arch is defined as the loss of luminal continuity between the ascending and descending aorta. In most cases blood flow to the descending thoracic aorta is through a PDA, and there is a large VSD. Arch interruption is further defined by site of interruption. In type A, interruption is distal to the left subclavian artery; in type B interruption is between the left carotid and left subclavian arteries; and in type C interruption occurs between the innominate and left carotid arteries.}
180	Partial anomalous pulmonary venous connection (PAPVC)	Some, but not all of the pulmonary veins connect to the right atrium or to one or more of its venous tributaries. This definition excludes sinus venosus defects with normally connected but abnormally draining pulmonary veins (the pulmonary veins may drain abnormally into

		the right atrium via the atrial septal defect).
190	Partial anomalous pulmonary venous connection (PAPVC), scimitar	The right pulmonary vein(s) connect anomalously to the inferior vena cava or to the right atrium at the insertion of the inferior vena cava. The descending vertical vein resembles a scimitar (Turkish sword) on frontal chest x- ray. Frequently associated with: hypoplasia of the right lung with bronchial anomalies; dextroposition and/or dextrorotation of the heart; hypoplasia of the right pulmonary artery; and anomalous subdiaphragmatic systemic arterial supply to the lower lobe of the right lung directly from the aorta or its main branches.
200	Total anomalous pulmonary venous connection (TAPVC), Type 1 (supracardiac)	All of the pulmonary veins connect anomalously with the right atrium or to one or more of its venous tributaries. None of the pulmonary veins connect normally to the left atrium. In Type 1 (supracardiac) TAPVC, the anomalous connection is at the supracardiac level and can be obstructed or nonobstructed.
210	Total anomalous pulmonary venous connection (TAPVC), Type 2 (cardiac)	All of the pulmonary veins connect anomalously with the right atrium or to one or more of its venous tributaries. None of the pulmonary veins connect normally to the left atrium. In Type 2 (cardiac) TAPVC, the anomalous connection is to the heart, either to the right atrium directly or to the coronary sinus. Most patients with type 2 TAPVC are nonobstructed.
220	Total anomalous pulmonary venous connection (TAPVC), Type 3 (infracardiac)	All of the pulmonary veins connect anomalously with the right atrium or to one or more of its venous tributaries. None of the pulmonary veins connect normally to the left atrium. In Type 3 (infracardiac) TAPVC, the anomalous connection is at the infracardiac level (below the diaphragm), with the pulmonary venous return entering the right atrium ultimately via the inferior vena cava. In the vast majority of patients infracardiac TAPVC is obstructed.
230	Total anomalous pulmonary venous connection (TAPVC), Type 4 (mixed)	All of the pulmonary veins connect anomalously with the right atrium or to one or more of its venous tributaries. None of the pulmonary veins connect normally to the left atrium. In Type 4 (mixed) TAPVC, the anomalous connection is at two or more of the above levels (supracardiac, cardiac, infracardiac) and can be obstructed or nonobstructed.
250	Cor triatriatum	In the classic form of cor triatriatum a membrane divides the left atrium (LA) into a posterior accessory chamber that receives the pulmonary veins and an anterior chamber (LA) that communicates with the mitral valve. In differentiating cor triatriatum from supravalvar mitral ring, in cor triatriatum the posterior compartment contains the pulmonary veins while the anterior contains the left atrial appendage and the mitral valve orifice; in supravalvar mitral ring, the anterior

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		compartment contains only the mitral valve orifice. Cor triatriatum dexter (prominent venous valve producing obstruction of the IVC and tricuspid valve) is to be coded as a systemic venous obstruction, not as a form of cor triatriatum.
260	Pulmonary venous stenosis	Any pathologic narrowing of one or more pulmonary veins. Can be further subdivided by etiology (congenital, acquired-postoperative, acquired- nonpostoperative) and extent of stenosis (diffusely hypoplastic, long segment focal/tubular stenosis, discrete stenosis).
270	Systemic venous anomaly	Anomalies of the systemic venous system (superior vena cava (SVC), inferior vena cava (IVC), brachiocephalic veins (often the innominate vein), azygos vein, coronary sinus, levo-atrial cardinal vein) arising from one or more anomalies of origin, duplication, course, or connection. Examples include abnormal or absent right SVC with LSVC, bilateral SVC, interrupted right or left IVC, azygos continuation of IVC, and anomalies of hepatic drainage. Bilateral SVC may have, among other configurations: 1) RSVC draining to the RA and the LSVC to the LA with completely unroofed coronary sinus, 2) RSVC draining to the RA and LSVC to the coronary sinus which drains (normally) into the RA, or 3) RSVC to the coronary sinus which drains (abnormally) into the LA and LSVC to LA. Anomalies of the inferior vena caval system include, among others: 1) left IVC to LA, 2) biatrial drainage, or 3) interrupted IVC (left or right) with azygos continuation to an LSVC or RSVC.
280	Systemic venous obstruction	Obstruction of the systemic venous system (superior vena cava (SVC), inferior vena cava (IVC), brachiocephalic veins (often the innominate vein), azygos vein, coronary sinus, levo-atrial cardinal vein) arising from congenital or acquired stenosis or occlusion. Cor triatriatum dexter (prominent venous valve producing obstruction of the IVC and tricuspid valve) is to be coded as a systemic venous obstruction, not as a form of cor triatriatum.
290	TOF	Indicate if the patient has the diagnosis of "TOF". Only use this diagnosis if it is NOT known if the patient has one of the following four more specific diagnoses: (1). "TOF, Pulmonary stenosis", (2). "TOF, AVC (AVSD)", (3). "TOF, Absent pulmonary valve", (4). "Pulmonary atresia, VSD (Including TOF, PA)", or (5). "Pulmonary atresia, VSD-MAPCA (pseudotruncus)". {"TOF" is "Tetralogy of Fallot" and is defined as a group of malformations with biventricular atrioventricular alignments or connections characterized by anterosuperior deviation of the conal or outlet septum or its fibrous remnant, narrowing or atresia of the pulmonary outflow, a ventricular septal

defect of the malalignment type, and biventricular origin of the aorta. Hearts with tetralogy of Fallot will always have a ventricular septal defect, narrowing or atresia of the pulmonary outflow, and aortic override; hearts with tetralogy of Fallot will most often have right ventricular hypertrophy.} (An additional, often muscular [Type 4] VSD may be seen with TOF and should be coded separately as a secondary diagnosis as "VSD, Type 4 (Muscular)". Pulmonary arteries may be diminutive or there may be an absent left or right pulmonary artery; additional coding for pulmonary artery and/or branch pulmonary artery stenoses may be found under RVOT obstruction. Abnormal coronary artery distribution may also be associated with tetralogy of Fallot and may be coded separately under coronary artery anomalies. The presence of associated anomalies such as additional VSD, atrial septal defect, right aortic arch, left superior vena cava, and coronary artery anomalies must be subspecified as an additional or secondary diagnosis under the primary TOF diagnosis. TOF with absent pulmonary valve or TOF with associated complete atrioventricular canal are NOT to be secondary diagnoses under TOF - they are separate entities and should be coded as such. Controversy surrounds the differentiation between TOF and double outlet right ventricle [DORV]; in the nomenclature used here, DORV is defined as a type of ventriculoarterial connection in which both great vessels arise predominantly from the right ventricle. TOF with pulmonary atresia is to be coded under "Pulmonary atresia-VSD.")

Indicate if the patient has the diagnosis of "TOF, Pulmonary stenosis". Use this diagnosis if the patient has tetralogy of Fallot and pulmonary stenosis. Do not use this diagnosis if the patient has tetralogy of Fallot and pulmonary atresia. Do not use this diagnosis if the patient has tetralogy of Fallot and absent pulmonary valve. Do not use this diagnosis if the patient has tetralogy of Fallot and atrioventricular canal. {Tetralogy of Fallot is defined as a group of malformations with biventricular atrioventricular alignments or connections characterized by anterosuperior deviation of the conal or outlet septum or its fibrous remnant, narrowing or atresia of the pulmonary outflow, a ventricular septal defect of the malalignment type, and biventricular origin of the aorta. Hearts with tetralogy of Fallot will always have a ventricular septal defect, narrowing or atresia of the pulmonary outflow, and aortic override; hearts with tetralogy of Fallot will most often have right ventricular hypertrophy. (An additional, often muscular [Type 4] VSD may be seen with TOF and should be coded separately as a secondary diagnosis as "VSD, Type 4

2140 TOF, Pulmonary stenosis

		(Muscular)". Pulmonary arteries may be diminutive or there may be an absent left or right pulmonary artery; additional coding for pulmonary artery and/or branch pulmonary artery stenoses may be found under RVOT obstruction. Abnormal coronary artery distribution may also be associated with tetralogy of Fallot and may be coded separately under coronary artery anomalies. The presence of associated anomalies such as additional VSD, atrial septal defect, right aortic arch, left superior vena cava, and coronary artery anomalies must be subspecified as an additional or secondary diagnosis under the primary TOF diagnosis. TOF with absent pulmonary valve or TOF with associated complete atrioventricular canal are NOT to be secondary diagnoses under TOF - they are separate entities and should be coded as such. Controversy surrounds the differentiation between TOF and double outlet right ventricle [DORV]; in the nomenclature used here, DORV is defined as a type of ventriculoarterial connection in which both great vessels arise predominantly from the right ventricle. TOF with pulmonary atresia is to be coded under "Pulmonary atresia-VSD.")}
300	TOF, AVC (AVSD)	TOF with complete common atrioventricular canal defect is a rare variant of common atrioventricular canal defect with the associated conotruncal abnormality of TOF. The anatomy of the endocardial cushion defect is that of Rastelli type C in almost all cases.
310	TOF, Absent pulmonary valve	Indicate if the patient has the diagnosis of "TOF, Absent pulmonary valve". "TOF, Absent pulmonary valve" is "Tetralogy of Fallot with Absent pulmonary valve" and is defined as a malformation with all of the morphologic characteristics of tetralogy of Fallot (anterosuperior deviation of the conal or outlet septum or its fibrous remnant, narrowing of the pulmonary outflow, a ventricular septal defect of the malalignment type, and biventricular origin of the aorta), in which the ventriculo-arterial junction of the right ventricle with the main pulmonary artery features an atypical valve with rudimentary cusps that lack the anatomical semi- lunar features of normal valve cusps and which functionally do not achieve central coaptation. The physiologic consequence is usually a combination of variable degrees of both stenosis and regurgitation of the pulmonary valve. A developmental accompaniment of this anatomy and physiology is dilation of the main pulmonary artery and central right and left pulmonary arteries, which when extreme, is associated with abnormal arborization of lobar and segmental pulmonary artery branches and with compression of the trachea and mainstem bronchi. One theory holds that absence of the arterial duct or ductal ligament (which is a nearly constant finding in cases of tetralogy of Fallot

		with absent pulmonary valve) in combination with pulmonary `valve stenosis and regurgitation, comprise the physiologic conditions which predispose to central pulmonary artery dilation during fetal development. (Tetralogy of Fallot with Absent Pulmonary Valve Syndrome is a term frequently used to describe the clinical presentation when it features both circulatory alterations and respiratory distress secondary to airway compression.)
320	Pulmonary atresia	Pulmonary atresia defects which do not readily fall into pulmonary atresia-intact ventricular septum or pulmonary atresia-VSD (with or without MAPCAs) categories. These may include complex lesions in which pulmonary atresia is a secondary diagnosis, for example, complex single ventricle malformations with associated pulmonary atresia.
330	Pulmonary atresia, IVS	Pulmonary atresia (PA) and intact ventricular septum (IVS) is a duct-dependent congenital malformation that forms a spectrum of lesions including atresia of the pulmonary valve, a varying degree of right ventricle and tricuspid valve hypoplasia, and anomalies of the coronary circulation. An RV dependent coronary artery circulation is present when coronary artery fistulas (coronary sinusoids) are associated with a proximal coronary artery stenosis. Associated Ebstein's anomaly of the tricuspid valve can be present; the tricuspid diameter is enlarged and the prognosis is poor.
340	Pulmonary atresia, VSD (Including TOF, PA)	Pulmonary atresia (PA) and ventricular septal defect (VSD) is a heterogeneous group of congenital cardiac malformations in which there is lack of luminal continuity and absence of blood flow from either ventricle (in cases with ventriculo-arterial discordance) and the pulmonary artery, in a biventricular heart that has an opening or a hole in the interventricular septum (VSD). The malformation forms a spectrum of lesions including tetralogy of Fallot with pulmonary atresia. Tetralogy of Fallot with PA is a specific type of PA- VSD where the intracardiac malformation is more accurately defined (extreme underdevelopment of the RV infundibulum with marked anterior and leftward displacement of the infundibular septum often fused with the anterior wall of the RV resulting in complete obstruction of blood flow into the pulmonary artery and associated with a large outlet, subaortic ventricular septal defect). In the vast majority of cases of PA-VSD the intracardiac anatomy is that of TOF. The pulmonary circulation in PA-VSD is variable in terms of origin of blood flow, presence or absence of native pulmonary arteries, presence or absence of major aortopulmonary collateral arteries (MAPCA(s)), and distal distribution (pulmonary parenchymal segment arborization) abnormalities. Native pulmonary arteries may be present or absent. If MAPCAs are present this code

		should not be used; instead, Pulmonary atresia, VSD- MAPCA (pseudotruncus) should be used.
350	Pulmonary atresia, VSD- MAPCA	MAPCA(s) are large and distinct arteries, highly variable in number, that usually arise from the descending thoracic aorta, but uncommonly may originate from the aortic arch or the subclavian, carotid or even the coronary arteries. MAPCA(s) may be associated with present or absent native pulmonary arteries. If present, the native pulmonary arteries may be hypoplastic, and either confluent or nonconfluent. Systemic pulmonary collateral arteries have been categorized into 3 types based on their site of origin and the way they connect to the pulmonary circulation: direct aortopulmonary collaterals, indirect aortopulmonary collaterals, and true bronchial arteries. Only the first two should be considered MAPCA(s). If MAPCA(s) are associated with PA-VSD or TOF, PA this code should be used.
360	MAPCA(s) (major aortopulmonary collateral[s]) (without PA-VSD)	Rarely MAPCA(s) may occur in patents who do not have PA-VSD, but have severe pulmonary stenosis. The intracardiac anatomy in patients who have MAPCA(s) without PA should be specifically coded in each case as well.
370	Ebstein's anomaly	Indicate if the patient has the diagnosis of "Ebstein's anomaly". Ebstein's anomaly is a malformation of the tricuspid valve and right ventricle that is characterized by a spectrum of several features: (1) incomplete delamination of tricuspid valve leaflets from the myocardium of the right ventricle; (2) downward (apical) displacement of the functional annulus; (3) dilation of the "atrialized" portion of the right ventricle with variable degrees of hypertrophy and thinning of the wall; (4) redundancy, fenestrations, and tethering of the anterior leaflets; and (5) dilation of the right atrioventricular junction (the true tricuspid annulus). These anatomical and functional abnormalities cause tricuspid regurgitation (and rarely tricuspid stenosis) that results in right atrial and right ventricular dilation and atrial and ventricular arrhythmias. With increasing degrees of anatomic severity of malformation, the fibrous transformation of leaflets from their muscular precursors remains incomplete, with the septal leaflet being most severely involved, the posterior leaflet less severely involved. Associated cardiac anomalies include an interatrial communication, the presence of accessory conduction pathways often associated with Wolff-Parkinson-White syndrome, and dilation of the right atrium and right ventricle in patients with severe Ebstein's anomaly. (Varying degrees of right ventricular outflow tract obstruction may be present,

including pulmonary atresia in some cases. Such cases of Ebstein's anomaly with pulmonary atresia should be

		coded with a Primary Diagnosis of "Ebstein's anomaly", and a Secondary Diagnosis of "Pulmonary atresia".) (Some patients with atrioventricular discordance and ventriculoarterial discordance in situs solitus [congenitally corrected transposition] have an Ebstein-like deformity of the left-sided morphologically tricuspid valve. The nature of the displacement of the septal and posterior leaflets is similar to that in right- sided Ebstein's anomaly in patients with atrioventricular concordance and ventriculoarterial concordance in situs solitus. These patients with "Congenitally corrected TGA" and an Ebstein-like deformity of the left-sided morphologically tricuspid valve should be coded with a Primary Diagnosis of "Congenitally corrected TGA", and a Secondary Diagnosis of "Ebstein's anomaly".)
380	Tricuspid regurgitation, non- Ebstein's related	Non-Ebstein's tricuspid regurgitation may be due to congenital factors (primary annular dilation, prolapse, leaflet underdevelopment, absent papillary muscle/chordae) or acquired (post cardiac surgery or secondary to rheumatic fever, endocarditis, trauma, tumor, cardiomyopathy, iatrogenic or other causes).
390	Tricuspid stenosis	Tricuspid stenosis may be due to congenital factors (valvar hypoplasia, abnormal subvalvar apparatus, double-orifice valve, parachute deformity) or acquired (post cardiac surgery or secondary to carcinoid, rheumatic fever, tumor, systemic disease, iatrogenic, or other causes).
400	Tricuspid regurgitation and tricuspid stenosis	Tricuspid regurgitation present with tricuspid stenosis may be due to congenital factors or acquired.
410	Tricuspid valve, Other	Tricuspid valve pathology not otherwise specified in diagnosis definitions 370, 380, 390 and 400.
420	Pulmonary stenosis, Valvar	Pulmonary stenosis, Valvar ranges from critical neonatal pulmonic valve stenosis with hypoplasia of the right ventricle to valvar pulmonary stenosis in the infant, child, or adult, usually better tolerated but potentially associated with infundibular stenosis. Pulmonary branch hypoplasia can be associated. Only 10% of neonates with Pulmonary stenosis, Valvar with intact ventricular septum have RV-to-coronary artery fistula(s). An RV dependent coronary artery circulation is present when coronary artery fistulas (coronary sinusoids) are associated with a proximal coronary artery stenosis; this occurs in only 2% of neonates with Pulmonary stenosis, Valvar with IVS.
430	Pulmonary artery stenosis (hypoplasia), Main (trunk)	Indicate if the patient has the diagnosis of "Pulmonary artery stenosis (hypoplasia), Main (trunk)". "Pulmonary artery stenosis (hypoplasia), Main (trunk)" is defined as a congenital or acquired anomaly with pulmonary trunk (main pulmonary artery) narrowing or hypoplasia. The stenosis or hypoplasia may be isolated or associated with other cardiac lesions. Since the narrowing is distal

		to the pulmonic valve, it may also be known as supravalvar pulmonary stenosis.
440	Pulmonary artery stenosis, Branch, Central (within the hilar bifurcation)	Indicate if the patient has the diagnosis of "Pulmonary artery stenosis, Branch, Central (within the hilar bifurcation)". "Pulmonary artery stenosis, Branch, Central (within the hilar bifurcation)" is defined as a congenital or acquired anomaly with central pulmonary artery branch (within the hilar bifurcation involving the right or left pulmonary artery, or both) narrowing or hypoplasia. The stenosis or hypoplasia may be isolated or associated with other cardiac lesions. Coarctation of the pulmonary artery is related to abnormal extension of the ductus arteriosus into a pulmonary branch, more frequently the left branch.
450	Pulmonary artery stenosis, Branch, Peripheral (at or beyond the hilar bifurcation)	Indicate if the patient has the diagnosis of "Pulmonary artery stenosis, Branch, Peripheral (at or beyond the hilar bifurcation)". "Pulmonary artery stenosis, Branch, Peripheral (at or beyond the hilar bifurcation)" is defined as a congenital or acquired anomaly with peripheral pulmonary artery narrowing or hypoplasia (at or beyond the hilar bifurcation). The stenosis or hypoplasia may be isolated or associated with other cardiac lesions.
470	Pulmonary artery, Discontinuous	Indicate if the patient has the diagnosis of "Pulmonary artery, Discontinuous". Pulmonary artery, Discontinuous" is defined as a congenital or acquired anomaly with discontinuity between the branch pulmonary arteries or between a branch pulmonary artery and the main pulmonary artery trunk.
490	Pulmonary stenosis, Subvalvar	Subvalvar (infundibular) pulmonary stenosis is a narrowing of the outflow tract of the right ventricle below the pulmonic valve. It may be due to a localized fibrous diaphragm just below the valve, an obstructing muscle bundle or to a long narrow fibromuscular channel.
500	DCRV	The double chambered right ventricle is characterized by a low infundibular (subvalvar) stenosis rather than the rare isolated infundibular stenosis that develops more superiorly in the infundibulum, and is often associated with one or several closing VSDs. In some cases, the VSD is already closed. The stenosis creates two chambers in the RV, one inferior including the inlet and trabecular portions of the RV and one superior including the infundibulum.
510	Pulmonary valve, Other	Other anomalies of the pulmonary valve may be listed here including but not restricted to absent pulmonary valve.
530	Pulmonary insufficiency	Pulmonary valve insufficiency or regurgitation may be due to congenital factors (primary annular dilation, prolapse, leaflet underdevelopment, etc.) or acquired (for example, post cardiac surgery for repair of tetralogy

		of Fallot, etc.).
540	Pulmonary insufficiency and pulmonary stenosis	Pulmonary valve insufficiency and pulmonary stenosis beyond the neonatal period, in infancy and childhood, may be secondary to leaflet tissue that has become thickened and myxomatous. Retraction of the commissure attachment frequently creates an associated supravalvar stenosis.
2130	Shunt failure	Indicate if the patient has the diagnosis of "Shunt failure". This diagnostic subgroup includes failure of any of a variety of shunts ("Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)", "Shunt, Systemic to pulmonary, Central (from aorta or to main pulmonary artery)", "Shunt, Systemic to pulmonary, Other", and "Sano Shunt"), secondary to any of the following etiologies: shunt thrombosis, shunt occlusion, shunt stenosis, shunt obstruction, and shunt outgrowth. This diagnosis ("Shunt failure") would be the primary diagnosis in a patient with, for example, "Hypoplastic left heart syndrome (HLHS)" who underwent a "Norwood procedure" with a "Modified Blalock-Taussig Shunt" and now requires reoperation for thrombosis of the "Modified Blalock-Taussig Shunt". The underlying or fundamental diagnosis in this patient is "Hypoplastic left heart syndrome (HLHS)", but the primary diagnosis for the operation to be performed to treat the thrombosis of the "Modified Blalock-Taussig Shunt" would be "Shunt failure".
		Please note that the choice "2130 Shunt failure" does not include "520 Conduit failure".
520	Conduit failure	Indicate if the patient has the diagnosis of "Conduit failure". This diagnostic subgroup includes failure of any of a variety of conduits (ventricular [right or left]-to- PA conduits, as well as a variety of other types of conduits [ventricular {right or left}-to-aorta, RA-to-RV, etc.]), secondary to any of the following etiologies: conduit outgrowth, obstruction, stenosis, insufficiency, or insufficiency and stenosis. This diagnosis ("Conduit failure") would be the primary diagnosis in a patient with, for example, "Truncus arteriosus" repaired in infancy who years later is hospitalized because of conduit stenosis/insufficiency. The underlying or fundamental diagnosis in this patient is "Truncus arteriosus", but the primary diagnosis for the operation to be performed during the hospitalization (in this case, "Conduit reoperation") would be "Conduit failure".
		Please note that the choice "520 Conduit failure" does not include "2130 Shunt failure".
550	Aortic stenosis, Subvalvar	Subaortic obstruction can be caused by different lesions: subaortic membrane or tunnel, accessory mitral valve tissue, abnormal insertion of the mitral anterior

leaflet to the ventricular septum, deviation of the outlet septum (seen in coarctation of the aorta and interrupted aortic arch), or a restrictive bulboventricular foramen in single ventricle complexes. The Shone complex consists of subvalvar aortic stenosis in association with supravalvar mitral ring, parachute mitral valve, and coarctation of aorta. Subvalvar aortic stenosis may be categorized into two types: localized subvalvar aortic stenosis, which consists of a fibrous or fibromuscular ridge, and diffuse tunnel subvalvar aortic stenosis, in which circumferential narrowing commences at the annular level and extends downward for 1-3 cm. Idiopathic hypertrophic subaortic stenosis (IHSS) is also known as hypertrophic obstructive cardiomyopathy (HOCM), and is characterized by a primary hypertrophy of the myocardium. The obstructive forms involve different degrees of dynamic subvalvar aortic obstruction from a thickened ventricular wall and anterior motion of the mitral valve. Definitive nomenclature and therapeutic options for IHSS are listed under cardiomyopathy. 560 Aortic stenosis, Valvar Valvar aortic stenosis may be congenital or acquired. In its congenital form there are two types: critical (infantile), seen in the newborn in whom systemic perfusion depends on a patent ductus arteriosus, and noncritical, seen in infancy or later. Acquired valvar stenosis may be seen after as a result of rheumatic valvar disease, or from stenotic changes of an aortic valve prosthesis. Congenital valvar stenosis may result: (1) from complete fusion of commissures (acommissural) that results in a dome-shaped valve with a pinpoint opening (seen most commonly in infants with critical aortic valve stenosis); (2) from a unicommissural valve with one defined commissure and eccentric orifice (often with two raphes radiating from the ostium indicating underdeveloped commissures of a tricuspid aortic valve); (3) from a bicuspid aortic valve, with leaflets that can be equal in size or discrepant, and in left-right or anterior-posterior position; and finally (4) from a dysplastic tricuspid valve, which may have a gelatinous appearance with thick rarely equal in size leaflets, often obscuring the commissures. The dysplastic, tricuspid or bicuspid form of aortic valve deformity may not be initially obstructive but may become stenotic later in life due to leaflet thickening and calcification. 570 Aortic stenosis, Supravalvar Congenital supravalvar aortic stenosis is described as three forms: an hourglass deformity, a fibrous membrane, and a diffuse narrowing of the ascending aorta. The disease can be inherited as an autosomal dominant trait or part of Williams-Beuren syndrome in association with mental retardation, elfin facies, failure

to thrive, and occasionally infantile hypercalcemia.

		Supravalvar aortic stenosis may involve the coronary artery ostia, and the aortic leaflets may be tethered. The coronary arteries can become tortuous and dilated due to elevated pressures and early atherosclerosis may ensue. Supravalvar aortic stenosis may also be acquired: (1) after a neoaortic reconstruction such as arterial switch, Ross operation, or Norwood procedure; (2) at a suture line from a previous aortotomy or cannulation; and (3) from a narrowed conduit.
590	Aortic valve atresia	Aortic valve atresia will most often be coded under the Hypoplastic left heart syndrome/complex diagnostic codes since it most often occurs as part of a spectrum of cardiac malformations. However, there is a small subset of patients with aortic valve atresia who have a well-developed left ventricle and mitral valve and a large VSD (nonrestrictive or restrictive). The diagnostic code "Aortic valve atresia" enables users to report those patients with aortic valve atresia and a well- developed systemic ventricle without recourse to either a hypoplastic left heart syndrome/complex diagnosis or a single ventricle diagnosis.
600	Aortic insufficiency	Congenital aortic regurgitation/insufficiency is rare as an isolated entity. There are rare reports of congenital malformation of the aortic valve that result in aortic insufficiency shortly after birth from an absent or underdeveloped aortic valve cusp. Aortic insufficiency is more commonly seen with other associated cardiac anomalies: (1) in stenotic aortic valves (commonly stenotic congenital bicuspid aortic valves) with some degree of aortic regurgitation due to aortic leaflet abnormality; (2) in association with a VSD (especially in supracristal or conal type I VSD, more commonly seen in Asian populations); (3) secondary to aortic-left ventricular tunnel; (4) secondary to tethering or retraction of aortic valve leaflets in cases of supravalvar aortic stenosis that may involve the aortic valve; and similarly (5) secondary to encroachment on an aortic cusp by a subaortic membrane; or (6) turbulence caused by a stenotic jet can create progressive aortic regurgitation. Aortic insufficiency may also result from: (1) post-procedure such as closed or open valvotomy or aortic valve repair, VSD closure, balloon valvotomy, or diagnostic catheterization; (2) in the neo- aorta post arterial switch, pulmonary autograft (Ross) procedure, homograft placement, Norwood procedure, or Damus-Kaye-Stansel procedure; (3) as a result of endocarditis secondary to perforated or prolapsed leaflets or annular dehiscence; (4) secondary to annulo- aortic ectasia with prolapsed or noncoapting leaflets; (5) secondary to trauma, blunt or penetrating; or (6) as a result of aortitis, bacterial, viral or autoimmune. Aortic regurgitation secondary to prosthetic failure should be coded first as either conduit failure or prosthetic valve

		failure, as applicable, and secondarily as aortic regurgitation secondary to prosthetic failure (perivalvar or due to structural failure). The underlying fundamental diagnosis that led to the initial conduit or valve prosthesis placement should also be described.
610	Aortic insufficiency and aortic stenosis	Aortic insufficiency is often seen in association with stenotic aortic valve, commonly the stenotic congenital bicuspid aortic valve. The degree of aortic regurgitation is due to the severity of the aortic leaflet abnormality.
620	Aortic valve, Other	This diagnostic subgroup may be used to delineate aortic valve cusp number (unicuspid, bicuspid, tricuspid, more than three cusps), commissural fusion (normal, partially fused, completely fused), and valve leaflet (normal, thickened, dysplastic, calcified, gelatinous), annulus (normal, hypoplastic, calcified), or sinus description (normal, dilated). Note that any extensive descriptors chosen within those made available by a vendor will be converted, at harvest, to Aortic valve, Other.
630	Sinus of Valsalva aneurysm	The sinus of Valsalva is defined as that portion of the aortic root between the aortic root annulus and the sinotubular ridge. A congenital sinus of Valsalva aneurysm is a dilation usually of a single sinus of Valsalva. These most commonly originate from the right sinus (65%-85%), less commonly from the noncoronary sinus (10%-30%), and rarely from the left sinus (<5%). A true sinus of Valsalva aneurysm presents above the aortic annulus. The hierarchical coding system distinguishes between congenital versus acquired, ruptured versus nonruptured, sinus of origin, and chamber/site of penetration (right atrium, right ventricle, left atrium, left ventricle, pulmonary artery, pericardium). A nonruptured congenital sinus of Valsalva aneurysm may vary from a mild dilation of a single aortic sinus to an extensive windsock deformity. Rupture of a congenital sinus of Valsalva aneurysm into an adjacent chamber occurs most commonly between the ages of 15-30 years. Rupture may occur spontaneously, after trauma, after strenuous physical exertion, or from acute bacterial endocarditis. Congenital etiology is supported by the frequent association of sinus of Valsalva aneurysms with VSDs. Other disease processes are also associated with sinus of Valsalva aneurysm and include: syphilis, endocarditis, cystic medial necrosis, atherosclerosis, and trauma. Acquired sinus of Valsalva aneurysms more frequently involve multiple sinuses of Valsalva; when present in multiple form they are more appropriately classified as aneurysms of the aortic root.
640	LV to aorta tunnel	The aortico-left ventricular tunnel (LV-to-aorta tunnel) is an abnormal paravalvular (alongside or in the vicinity of a valve) communication between the aorta and left

		ventricle, commonly divided into 4 types: (1) type I, a simple tunnel with a slit-like opening at the aortic end and no aortic valve distortion; (2) type II, a large extracardiac aortic wall aneurysm of the tunnel with an oval opening at the aortic end, with or without ventricular distortion; (3) type III, intracardiac aneurysm of the septal portion of the tunnel, with or without right ventricular outflow obstruction; and (4) type IV, a combination of types II and III. Further differentiation within these types may be notation of right coronary artery arising from the wall of the tunnel. If a LV-to-aorta tunnel communicates with the right ventricle, many feel that the defect is really a ruptured sinus of Valsalva aneurysm.
650	Mitral stenosis, Supravalvar mitral ring	Supravalvar mitral ring is formed by a circumferential ridge of tissue that is attached to the anterior mitral valve leaflet (also known as the aortic leaflet) slightly below its insertion on the annulus and to the atrium slightly above the attachment of the posterior mitral valve leaflet (also known as the mural leaflet). Depending on the diameter of the ring orifice, varying degrees of obstruction exist. The underlying valve is usually abnormal and frequently stenotic or hypoplastic. Supravalvar mitral ring is commonly associated with other stenotic lesions such as parachute or hammock valve (subvalvar stenosis), papillary muscle fusion (subvalvar stenosis), and double orifice mitral valve (valvar stenosis). Differentiation from cor triatriatum focuses on the compartments created by the supravalvar ring. In cor triatriatum the posterior compartment contains the pulmonary veins; the anterior contains the left atrial appendage and the mitral valve orifice. In supravalvar mitral ring, the posterior compartment contains the pulmonary veins and the left atrial appendage; the anterior compartment contains only the mitral valve orifice. When coding multiple mitral valvar lesions the predominant defect causing the functional effect (regurgitation, stenosis, or regurgitation and stenosis) should be listed as the primary defect.
660	Mitral stenosis, Valvar	Valvar mitral stenosis may arise from congenital (annular and / or leaflet) or acquired causes, both surgical (after mitral valve repair or replacement or other cardiac surgery) and non-surgical (post rheumatic heart disease, infective endocarditis, ischemia, myxomatous degeneration, trauma, or cardiomyopathy). Mitral valve annular hypoplasia is distinguished from severe mitral valve hypoplasia and mitral valve atresia, which are typically components of hypoplastic left heart syndrome. When coding multiple mitral valvar lesions the predominant defect causing the functional effect (regurgitation, stenosis, or regurgitation and stenosis) should be listed as the primary defect.

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670	Mitral stenosis, Subvalvar	Congenital subvalvar mitral stenosis may be due to obstructive pathology of either the chordae tendineae and / or papillary muscles which support the valve leaflets. When coding multiple mitral valvar lesions the predominant defect causing the functional effect (regurgitation, stenosis, or regurgitation and stenosis) should be listed as the primary defect.
680	Mitral stenosis, Subvalvar, Parachute	In parachute mitral valve, all chordae are attached to a single papillary muscle originating from the posterior ventricular wall. When the interchordal spaces are partially obliterated valvar stenosis results. This defect also causes valvar insufficiency, most commonly due to a cleft leaflet, a poorly developed anterior leaflet, short chordae, or annular dilation. This lesion is also part of Shone's anomaly, which consists of the parachute mitral valve, supravalvar mitral ring, subaortic stenosis, and coarctation of the aorta. When coding multiple mitral valvar lesions the predominant defect causing the functional effect (regurgitation, stenosis, or regurgitation and stenosis) should be listed as the primary defect.
695	Mitral stenosis	Stenotic lesions of the mitral valve not otherwise specified in the diagnosis definitions 650, 660, 670, and 680.
700	Mitral regurgitation and mitral stenosis	Mitral regurgitation and mitral stenosis may arise from congenital or acquired causes or after cardiac surgery. Additional details to aid in coding specific components of the diagnosis are available in the individual mitral stenosis or mitral regurgitation field definitions. When coding multiple mitral valve lesions the predominant defect causing the functional effect (regurgitation, stenosis, or regurgitation and stenosis) should be listed as the primary defect.
710	Mitral regurgitation	Mitral regurgitation may arise from congenital (at the annular, leaflet or subvalvar level) or acquired causes both surgical (after mitral valve repair or replacement, subaortic stenosis repair, atrioventricular canal repair, cardiac transplantation, or other cardiac surgery) and non-surgical (post rheumatic heart disease, infective endocarditis, ischemia (with chordal rupture or papillary muscle infarct), myxomatous degeneration including Barlow's syndrome, trauma, or cardiomyopathy). Congenital lesions at the annular level include annular dilation or deformation (usually deformation is consequent to associated lesions). At the valve leaflet level, mitral regurgitation may be due to a cleft, hypoplasia or agenesis of leaflet(s), excessive leaflet tissue, or a double orifice valve. At the subvalvar level, mitral regurgitation may be secondary to chordae tendineae anomalies (agenesis, rupture, elongation, or shortening as in funnel valve), or to papillary muscle anomalies (hypoplasia or agenesis, shortening,

		elongation, single-parachute, or multiple-hammock valve). When coding multiple mitral valvar lesions the predominant defect causing the functional effect (regurgitation, stenosis, or regurgitation and stenosis) should be listed as the primary defect.
720	Mitral valve, Other	Mitral valve pathology not otherwise coded in diagnosis definitions 650 through 710.
730	Hypoplastic left heart syndrome (HLHS)	Hypoplastic left heart syndrome (HLHS) is a spectrum of cardiac malformations characterized by a severe underdevelopment of the left heart-aorta complex, consisting of aortic and/or mitral valve atresia, stenosis, or hypoplasia with marked hypoplasia or absence of the left ventricle, and hypoplasia of the ascending aorta and of the aortic arch with coarctation of the aorta. Hypoplastic left heart complex is a subset of patients at the favorable end of the spectrum of HLHS characterized by hypoplasia of the structures of the left heart-aorta complex, consisting of aortic and mitral valve hypoplasia without valve stenosis or atresia, hypoplasia of the left ventricle, hypoplasia of the ascending aorta and of the aortic arch, with or without coarctation of the aorta.
2080	Shone's syndrome	Shone's syndrome is a syndrome of multilevel hypoplasia and obstruction of left sided cardiovascular structures including more than one of the following lesions: (1) supravalvar ring of the left atrium, (2) a parachute deformity of the mitral valve, (3) subaortic stenosis, and (4) aortic coarctation. The syndrome is based on the original report from Shone [1] that was based on analysis of 8 autopsied cases and described the tendency of these four obstructive, or potentially obstructive, conditions to coexist. Only 2 of the 8 cases exhibited all four conditions, with the other cases exhibited all four conditions, with the other cases exhibiting only two or three of the anomalies [2]. [1] Shone JD, Sellers RD, Anderson RG, Adams P, Lillehei CW, Edwards JE. The developmental complex of "parachute mitral valve", supravalvar ring of left atrium, subaortic stenosis, and coarctation of the aorta. Am J Cardiol 1963; 11: 714–725. [2]. Tchervenkov CI, Jacobs JP, Weinberg PM, Aiello VD, Beland MJ, Colan SD, Elliott MJ, Franklin RC, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G. The nomenclature, definition and classification of hypoplastic left heart syndrome. Cardiology in the Young, 2006; 16(4): 339–368, August 2006. Please note that the term "2080 Shone's syndrome" may be the "Fundamental Diagnosis" of a patient; however, the term "2080 Shone's syndrome" may not be the "Primary Diagnosis" of an operation. The term "2080 Shone's syndrome" may be a "Secondary Diagnosis" of

an operation.

740	Cardiomyopathy (including dilated, restrictive, and hypertrophic)	Cardiomyopathy is a term applied to a wide spectrum of cardiac diseases in which the predominant feature is poor myocardial function in the absence of any anatomic abnormalities. Cardiomyopathies can be divided into three relatively easily distinguishable entities: (1) dilated, characterized by ventricular dilation and systolic dysfunction; (2) hypertrophic, characterized by physiologically inappropriate hypertrophy of the left ventricle; and (3) restrictive, characterized by diastolic dysfunction, with a presentation often identical to constrictive pericarditis. Also included in this diagnostic category are patients with a cardiomyopathy or syndrome confined to the right ventricle, for example: (1) arrhythmogenic right ventricular dysplasia; (2) Uhl's syndrome (hypoplasia of right ventricular myocardium, parchment heart); or (3)
750	Cardiomyopathy, End-stage congenital heart disease	Myocardial abnormality in which there is systolic and/or diastolic dysfunction in the presence of structural congenital heart disease without any (or any further) surgically correctable lesions.
760	Pericardial effusion	Inflammatory stimulation of the pericardium that results in the accumulation of appreciable amounts of pericardial fluid (also known as effusive pericarditis). The effusion may be idiopathic or acquired (e.g., postoperative, infectious, uremic, neoplastic, traumatic, drug-induced).
770	Pericarditis	Inflammatory process of the pericardium that leads to either (1) effusive pericarditis with accumulation of appreciable amounts of pericardial fluid or (2) constrictive pericarditis that leads to pericardial thickening and compression of the cardiac chambers, ultimately with an associated significant reduction in cardiac function. Etiologies are varied and include idiopathic or acquired (e.g., postoperative, infectious, uremic, neoplastic, traumatic, drug-induced) pericarditis.
780	Pericardial disease, Other	A structural or functional abnormality of the visceral or parietal pericardium that may, or may not, have a significant impact on cardiac function. Included are absence or partial defects of the pericardium.
790	Single ventricle, DILV	A congenital cardiac malformation in which both atria connect to a single, morphologically left ventricle.
		The version of the IPCCC derived from the International Congenital Heart Surgery Nomenclature and Database Project of the EACTS and STS uses the term "single ventricle" as synonymous for the "functionally univentricular heart".
		The term "functionally univentricular heart" describes a spectrum of congenital cardiovascular malformations in which the ventricular mass may not readily lend itself to

partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular heart include complex forms of atrioventricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart".

Reference: Jacobs JP, Franklin RCG, Jacobs ML, Colan SD, Tchervenkov CI, Maruszewski B, Gaynor JW, Spray TL, Stellin G, Aiello VD, Béland MJ, Krogmann ON, Kurosawa H, Weinberg PM, Elliott MJ, Mavroudis C, Anderson R. Classification of the Functionally Univentricular Heart: Unity from mapped codes. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges in the Management of the Functionally Univentricular Heart, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16, Supplement 1: 9 -21, February 2006.

A congenital cardiac malformation in which both atria connect to a single, morphologically right ventricle

The version of the IPCCC derived from the International Congenital Heart Surgery Nomenclature and Database Project of the EACTS and STS uses the term "single ventricle" as synonymous for the "functionally univentricular heart".

The term "functionally univentricular heart" describes a spectrum of congenital cardiovascular malformations in which the ventricular mass may not readily lend itself to partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be

800

Single ventricle, DIRV

considered to be a functionally univentricular heart include complex forms of atrioventricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart".

Reference: Jacobs JP, Franklin RCG, Jacobs ML, Colan SD, Tchervenkov CI, Maruszewski B, Gaynor JW, Spray TL, Stellin G, Aiello VD, Béland MJ, Krogmann ON, Kurosawa H, Weinberg PM, Elliott MJ, Mavroudis C, Anderson R. Classification of the Functionally Univentricular Heart: Unity from mapped codes. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges in the Management of the Functionally Univentricular Heart, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16, Supplement 1: 9 -21, February 2006.

810 Single ventricle, Mitral atresia A congenital cardiac malformation in which there is no orifice of mitral valve

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The term "functionally univentricular heart" describes a spectrum of congenital cardiovascular malformations in which the ventricular mass may not readily lend itself to partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular heart include complex forms of atrioventricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart".

Reference: Jacobs JP, Franklin RCG, Jacobs ML,

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rgery Database	Version: 2.81
	 Colan SD, Tchervenkov CI, Maruszewski B, Gaynor JW, Spray TL, Stellin G, Aiello VD, Béland MJ, Krogmann ON, Kurosawa H, Weinberg PM, Elliott MJ, Mavroudis C, Anderson R. Classification of the Functionally Univentricular Heart: Unity from mapped codes. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges in the Management of the Functionally Univentricular Heart, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16, Supplement 1: 9 - 21, February 2006.
Single ventricle, Tricuspid atresia	A congenital cardiac malformation in which there is no orifice of tricuspid valve.
	The version of the IPCCC derived from the International Congenital Heart Surgery Nomenclature and Database Project of the EACTS and STS uses the term "single ventricle" as synonymous for the "functionally univentricular heart".
	The term "functionally univentricular heart" describes a spectrum of congenital cardiovascular malformations in which the ventricular mass may not readily lend itself to partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular heart include complex forms of atrioventricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart".
	Reference: Jacobs JP, Franklin RCG, Jacobs ML, Colan SD, Tchervenkov CI, Maruszewski B, Gaynor JW, Spray TL, Stellin G, Aiello VD, Béland MJ, Krogmann ON, Kurosawa H, Weinberg PM, Elliott MJ, Mavroudis C, Anderson R. Classification of the Functionally Univentricular Heart: Unity from mapped codes. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges in the Management of the

Functionally Univentricular Heart, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16, Supplement 1: 9 -

		21, February 2006.
830	Single ventricle, Unbalanced AV canal	Single ventricle anomalies with a common atrioventricular (AV) valve and only one completely well developed ventricle. If the common AV valve opens predominantly into the morphologic left ventricle, the defect is termed a left ventricular (LV)–type or LV-dominant AV septal defect. If the common AV valve opens predominantly into the morphologic right ventricle, the defect is termed a right ventricular (RV)–type or RV-dominant AV septal defect.
		The version of the IPCCC derived from the International Congenital Heart Surgery Nomenclature and Database Project of the EACTS and STS uses the term "single ventricle" as synonymous for the "functionally univentricular heart".
		The term "functionally univentricular heart" describes a spectrum of congenital cardiovascular malformations in which the ventricular mass may not readily lend itself to partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart".
840	Single ventricle, Heterotaxia syndrome	"Heterotaxia syndrome" is synonymous with "heterotaxy", "visceral heterotaxy", and "heterotaxy syndrome". Heterotaxy is defined as an abnormality where the internal thoraco-abdominal organs demonstrate abnormal arrangement across the left-right axis of the body. By convention, heterotaxy does not include patients with either the expected usual or normal arrangement of the internal organs along the left- right axis, also known as 'situs solitus', nor patients with complete mirror-imaged arrangement of the internal organs along the left-right axis also known as 'aitus invarsue'

The version of the IPCCC derived from the

'situs inversus'.

International Congenital Heart Surgery Nomenclature and Database Project of the EACTS and STS uses the term "single ventricle" as synonymous for the "functionally univentricular heart".

The term "functionally univentricular heart" describes a spectrum of congenital cardiovascular malformations in which the ventricular mass may not readily lend itself to partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular heart include complex forms of atrioventricular septal defect. double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart".

Reference: Jacobs JP, Franklin RCG, Jacobs ML, Colan SD, Tchervenkov CI, Maruszewski B, Gaynor JW, Spray TL, Stellin G, Aiello VD, Béland MJ, Krogmann ON, Kurosawa H, Weinberg PM, Elliott MJ, Mavroudis C, Anderson R. Classification of the Functionally Univentricular Heart: Unity from mapped codes. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges in the Management of the Functionally Univentricular Heart, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16, Supplement 1: 9 -21, February 2006.

If the single ventricle is of primitive or indeterminate type, other is chosen in coding. It is recognized that a considerable variety of other structural cardiac malformations (e.g., biventricular hearts with straddling atrioventricular valves, pulmonary atresia with intact ventricular septum, some complex forms of double outlet right ventricle) may at times be best managed in a fashion similar to that which is used to treat univentricular hearts. They are not to be coded in this section of the nomenclature, but according to the underlying lesions.

The version of the IPCCC derived from the International Congenital Heart Surgery Nomenclature

850

Single ventricle, Other

and Database Project of the EACTS and STS uses the term "single ventricle" as synonymous for the "functionally univentricular heart".

The term "functionally univentricular heart" describes a spectrum of congenital cardiovascular malformations in which the ventricular mass may not readily lend itself to partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular heart include complex forms of atrioventricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart".

Reference: Jacobs JP, Franklin RCG, Jacobs ML, Colan SD, Tchervenkov CI, Maruszewski B, Gaynor JW, Spray TL, Stellin G, Aiello VD, Béland MJ, Krogmann ON, Kurosawa H, Weinberg PM, Elliott MJ, Mavroudis C, Anderson R. Classification of the Functionally Univentricular Heart: Unity from mapped codes. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges in the Management of the Functionally Univentricular Heart, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16, Supplement 1: 9 -21, February 2006.

Indicate if the patient has the diagnosis of "Single Ventricle + Total anomalous pulmonary venous connection (TAPVC)". In the event of Single Ventricle occurring in association with Total anomalous pulmonary venous connection (TAPVC), code "Single Ventricle + Total anomalous pulmonary venous connection (TAPVC)", and then use additional (secondary) diagnostic codes to describe the Single Ventricle and the Total anomalous pulmonary venous connection (TAPVC) separately to provide further documentation about the Single Ventricle and Total anomalous pulmonary venous connection (TAPVC) types. {"Total anomalous pulmonary venous connection (TAPVC)" is defined as a heart where all of the pulmonary venos connect anomalously with the right

851 Single Ventricle + Total anomalous pulmonary venous connection (TAPVC) atrium or to one or more of its venous tributaries. None of the pulmonary veins connect normally to the left atrium.}

The version of the IPCCC derived from the International Congenital Heart Surgery Nomenclature and Database Project of the EACTS and STS uses the term "single ventricle" as synonymous for the "functionally univentricular heart".

The term "functionally univentricular heart" describes a spectrum of congenital cardiovascular malformations in which the ventricular mass may not readily lend itself to partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular heart include complex forms of atrioventricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart".

Reference: Jacobs JP, Franklin RCG, Jacobs ML, Colan SD, Tchervenkov CI, Maruszewski B, Gaynor JW, Spray TL, Stellin G, Aiello VD, Béland MJ, Krogmann ON, Kurosawa H, Weinberg PM, Elliott MJ, Mavroudis C, Anderson R. Classification of the Functionally Univentricular Heart: Unity from mapped codes. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges in the Management of the Functionally Univentricular Heart, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16, Supplement 1: 9 -21, February 2006.

870 Congenitally corrected TGA Indicate if the patient has the diagnosis of "Congenitally corrected TGA". Congenitally corrected transposition is synonymous with the terms 'corrected transposition' and 'discordant atrioventricular connections with discordant ventriculo-arterial connections', and is defined as a spectrum of cardiac malformations where the atrial chambers are joined to morphologically inappropriate ventricles, and the ventricles then support morphologically inappropriate arterial trunks [1]. [1]

		Jacobs JP, Franklin RCG, Wilkinson JL, Cochrane AD, Karl TR, Aiello VD, Béland MJ, Colan SD, Elliott, MJ, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Tchervenkov CI, Weinberg PM. The nomenclature, definition and classification of discordant atrioventricular connections. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges of the Atrioventricular Junctions and Other Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16 (Supplement 3): 72-84, September 2006.
872	Congenitally corrected TGA, IVS	Indicate if the patient has the diagnosis of "Congenitally corrected TGA, IVS". "Congenitally corrected TGA, IVS" is "Congenitally corrected transposition with an intact ventricular septum", in other words, "Congenitally corrected transposition with no VSD". (Congenitally corrected transposition is synonymous with the terms 'corrected transposition' and 'discordant atrioventricular connections with discordant ventriculo- arterial connections', and is defined as a spectrum of cardiac malformations where the atrial chambers are joined to morphologically inappropriate ventricles, and the ventricles then support morphologically inappropriate arterial trunks [1]. [1] Jacobs JP, Franklin RCG, Wilkinson JL, Cochrane AD, Karl TR, Aiello VD, Béland MJ, Colan SD, Elliott, MJ, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Tchervenkov CI, Weinberg PM. The nomenclature, definition and classification of discordant atrioventricular connections. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges of the Atrioventricular Junctions and Other Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16 (Supplement 3): 72-84, September 2006.)
874	Congenitally corrected TGA, IVS-LVOTO	Indicate if the patient has the diagnosis of "Congenitally corrected TGA, IVS-LVOTO". "Congenitally corrected TGA, IVS-LVOTO" is "Congenitally corrected transposition with an intact ventricular septum and left ventricular outflow tract obstruction", in other words, "Congenitally corrected transposition with left ventricular outflow tract obstruction and no VSD". (Congenitally corrected transposition is synonymous with the terms 'corrected transposition' and 'discordant atrioventricular connections with discordant ventriculo- arterial connections', and is defined as a spectrum of cardiac malformations where the atrial chambers are joined to morphologically inappropriate ventricles, and

the ventricles then support morphologically

		inappropriate arterial trunks [1]. [1] Jacobs JP, Franklin RCG, Wilkinson JL, Cochrane AD, Karl TR, Aiello VD, Béland MJ, Colan SD, Elliott, MJ, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Tchervenkov CI, Weinberg PM. The nomenclature, definition and classification of discordant atrioventricular connections. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges of the Atrioventricular Junctions and Other Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16 (Supplement 3): 72-84, September 2006.)
876	Congenitally corrected TGA, VSD	Indicate if the patient has the diagnosis of "Congenitally corrected TGA, VSD". "Congenitally corrected TGA, VSD" is "Congenitally corrected transposition with a VSD". (Congenitally corrected transposition is synonymous with the terms 'corrected transposition' and 'discordant atrioventricular connections with discordant ventriculo-arterial connections', and is defined as a spectrum of cardiac malformations where the atrial chambers are joined to morphologically inappropriate ventricles, and the ventricles then support morphologically inappropriate arterial trunks [1]. [1] Jacobs JP, Franklin RCG, Wilkinson JL, Cochrane AD, Karl TR, Aiello VD, Béland MJ, Colan SD, Elliott, MJ, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Tchervenkov CI, Weinberg PM. The nomenclature, definition and classification of discordant atrioventricular connections. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges of the Atrioventricular Junctions and Other Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16 (Supplement 3): 72-84, September 2006.)
878	Congenitally corrected TGA, VSD-LVOTO	Indicate if the patient has the diagnosis of "Congenitally corrected TGA, VSD-LVOTO". "Congenitally corrected TGA, VSD-LVOTO" is "Congenitally corrected transposition with a VSD and left ventricular outflow tract obstruction". (Congenitally corrected transposition is synonymous with the terms 'corrected transposition' and 'discordant atrioventricular connections with discordant ventriculo-arterial connections', and is defined as a spectrum of cardiac malformations where the atrial chambers are joined to morphologically inappropriate ventricles, and the ventricles then support morphologically inappropriate arterial trunks [1]. [1] Jacobs JP, Franklin RCG, Wilkinson JL, Cochrane AD, Karl TR, Aiello VD, Béland MJ, Colan SD, Elliott, MJ, Gaynor JW,

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	Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Tchervenkov CI, Weinberg PM. The nomenclature, definition and classification of discordant atrioventricular connections. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges of the Atrioventricular Junctions and Other Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16 (Supplement 3): 72-84, September 2006.)
880 TGA, IVS	A malformation of the heart in which there is atrioventricular concordance and ventriculoarterial discordance with an intact ventricular septum. There may be d, l, or ambiguous transposition (segmental diagnoses include S,D,D, S,D,L, S,D,A). Also to be included in this diagnostic grouping are those defects with situs inversus, L-loop ventricles and either d or l transposition (segmental diagnosis of I,L,L and I,L,D) and occasionally those defects with ambiguous situs of the atria which behave as physiologically uncorrected transposition and are treated with arterial switch (segmental diagnoses include A,L,L and A,D,D).
890 TGA, IVS-LVOTO	A malformation of the heart in which there is atrioventricular concordance and ventriculoarterial discordance with an intact ventricular septum and associated left ventricular obstruction. There may be d, l, or ambiguous transposition (segmental diagnoses include S,D,D, S,D,L, S,D,A). Also to be included in this diagnostic grouping are those defects with situs inversus, L-loop ventricles and either d or l transposition (segmental diagnosis of I,L,L and I,L,D) and occasionally those defects with ambiguous situs of the atria which behave as physiologically uncorrected transposition and are treated with arterial switch (segmental diagnoses include A,L,L and A,D,D).
900 TGA, VSD	 A malformation of the heart in which there is atrioventricular concordance and ventriculoarterial discordance with one or more ventricular septal defects. There may be d, l, or ambiguous transposition (segmental diagnoses include S,D,D, S,D,L, S,D,A). Also to be included in this diagnostic grouping are those defects with situs inversus, L-loop ventricles and either d or l transposition (segmental diagnosis of I,L,L and I,L,D) and occasionally those defects with ambiguous situs of the atria which behave as physiologically uncorrected transposition and are treated with arterial switch (segmental diagnoses include A,L,L and A,D,D).
910 TGA, VSD-LVOTO	A malformation of the heart in which there is atrioventricular concordance and ventriculoarterial discordance with one or more ventricular septal defects and left ventricular outflow tract obstruction. There may

		be d, l, or ambiguous transposition (segmental diagnoses include S,D,D, S,D,L, S,D,A). Also to be included in this diagnostic grouping are those defects with situs inversus, L-loop ventricles and either d or l transposition (segmental diagnosis of I,L,L and I,L,D) and occasionally those defects with ambiguous situs of the atria which behave as physiologically uncorrected transposition and are treated with arterial switch (segmental diagnoses include A,L,L and A,D,D).
930	DORV, VSD type	Double outlet right ventricle is a type of ventriculoarterial connection in which both great vessels arise entirely or predominantly from the right ventricle. In double outlet right ventricle, VSD type, there is an associated subaortic or doubly-committed VSD and no pulmonary outflow tract obstruction. Subaortic VSD's are located beneath the aortic valve. Doubly-committed VSD's lie beneath the leaflets of the aortic and pulmonary valves (juxtaarterial). In the nomenclature developed for DORV, there must be usual atrial arrangements and concordant atrioventricular connections, and normal or near-normal sized ventricles. Discordant atrioventricular connection with DORV is to be coded under congenitally corrected TGA. DORV associated with univentricular atrioventricular connections, atrioventricular valve atresia, or atrial isomerism is to be coded under the appropriate single ventricle listing.
940	DORV, TOF type	Double outlet right ventricle is a type of ventriculoarterial connection in which both great vessels arise entirely or predominantly from the right ventricle. In double outlet right ventricle, TOF type, there is an associated subaortic or doubly-committed VSD and pulmonary outflow tract obstruction. Subaortic VSD's are located beneath the aortic valve. Doubly-committed VSD's lie beneath the leaflets of the aortic and pulmonary valves (juxtaarterial). DORV can occur in association with pulmonary atresia, keeping in mind in coding that in the nomenclature developed for DORV, there must be usual atrial arrangements and concordant atrioventricular connections, and normal or near-normal sized ventricles (in this situation DORV is coded as a primary diagnosis). Discordant atrioventricular connection with DORV is to be coded under congenitally corrected TGA. DORV associated with univentricular atrioventricular connections, atrioventricular valve atresia, or atrial isomerism is to be coded under the appropriate Single ventricle listing.
950	DORV, TGA type	Double outlet right ventricle is a type of ventriculoarterial connection in which both great vessels arise entirely or predominantly from the right ventricle. In double outlet right ventricle, TGA type, there is an associated subpulmonary VSD. Most frequently, there is no pulmonary outflow tract obstruction (Taussig-Bing

		heart). The aorta is usually to the right and slightly anterior to or side-by-side with the pulmonary artery. Associated aortic outflow tract stenosis (subaortic, aortic arch obstruction) is commonly associated with the Taussig-Bing heart and if present should be coded as a secondary diagnosis. Rarely, there is associated pulmonary outflow tract obstruction. In the nomenclature developed for DORV, there must be usual atrial arrangements and concordant atrioventricular connections, and normal or near-normal sized ventricles. Discordant atrioventricular connection with DORV is to be coded under congenitally corrected TGA. DORV associated with univentricular atrioventricular connections, atrioventricular valve atresia, or atrial isomerism is to be coded under the appropriate single ventricle listing.
960	DORV, Remote VSD (uncommitted VSD)	Double outlet right ventricle is a type of ventriculoarterial connection in which both great vessels arise entirely or predominantly from the right ventricle. In double outlet right ventricle, Remote VSD type, there is a remote or noncommitted VSD. The VSD is far removed from both the aortic and pulmonary valves, usually within the inlet septum. Many of these VSD's are in hearts with DORV and common atrioventricular canal/septal defect. In the nomenclature developed for DORV, there must be usual atrial arrangements and concordant atrioventricular connections, and normal or near-normal sized ventricles. Discordant atrioventricular connection with DORV associated with univentricular atrioventricular connections, atrioventricular valve atresia, or atrial isomerism is to be coded under the appropriate single ventricle listing.
2030	DORV + AVSD (AV Canal)	Indicate if the patient has the diagnosis of "DORV + AVSD (AV Canal)". In the event of DORV occurring in association with AVSD (AV Canal), code "DORV + AVSD (AV Canal)", and then use additional (secondary) diagnostic codes to describe the DORV and the AVSD (AV Canal) separately to provide further documentation about the DORV and AVSD (AV Canal) types. {"DORV" is "Double outlet right ventricle" and is defined as a type of ventriculoarterial connection in which both great vessels arise entirely or predominantly from the right ventricle.} In this case, the DORV exists in combination with an atrioventricular septal defect and common atrioventricular junction guarded by a common atrioventricular valve.
975	DORV, IVS	Double outlet right ventricle is a type of ventriculoarterial connection in which both great vessels arise entirely or predominantly from the right ventricle. In the rare case of double outlet right ventricle with IVS the ventricular septum is intact. In the nomenclature developed for DORV, there must be usual atrial

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		arrangements and concordant atrioventricular connections, and normal or near-normal sized ventricles. Discordant atrioventricular connections with DORV are to be coded under congenitally corrected TGA. DORV associated with univentricular atrioventricular connections, atrioventricular valve atresia, or atrial isomerism is to be coded under the appropriate single ventricle listing.
980	DOLV	Double outlet left ventricle is a type of ventriculoarterial connection in which both great vessels arise entirely or predominantly from the left ventricle. In the nomenclature developed for DOLV, there must be usual atrial arrangements and concordant atrioventricular connections, and normal or near-normal sized ventricles. Discordant atrioventricular connection with DOLV is to be coded under congenitally corrected TGA. DOLV associated with univentricular atrioventricular connections, atrioventricular valve atresia, or atrial isomerism is to be coded under the appropriate single ventricle listing.
990	Coarctation of aorta	Indicate if the patient has the diagnosis of "Coarctation of aorta". A "Coarctation of the aorta" generally indicates a narrowing of the descending thoracic aorta just distal to the left subclavian artery. However, the term may also be accurately used to refer to a region of narrowing anywhere in the thoracic or abdominal aorta.
1000	Aortic arch hypoplasia	Hypoplasia of the aortic arch is hypoplasia of the proximal or distal transverse arch or the aortic isthmus. The isthmus (arch between the left subclavian and insertion of the patent ductus arteriosus / ligamentum arteriosum) is hypoplastic if its diameter is less than 40% of the diameter of the ascending aorta. The proximal transverse arch (arch between the innominate and left carotid arteries) and distal transverse arch (arch between the left carotid and left subclavian arteries) are hypoplastic if their diameters are less than 60% and 50%, respectively, of the diameter of the ascending aorta.
92	VSD + Aortic arch hypoplasia	A ventricular septal defect, any type, associated with hypoplasia of the aortic arch. (See diagnosis definition 1000 for a definition of hypoplasia of the aortic arch.)
94	VSD + Coarctation of aorta	Indicate if the patient has the diagnosis of "VSD + Coarctation of aorta". In the event of a VSD occurring in association with Coarctation of aorta, code "VSD + Coarctation of aorta", and then use additional (secondary) diagnostic codes to describe the VSD and the Coarctation of aorta separately to provide further documentation about the individual VSD and Coarctation of aorta types. {A "VSD" is a "Ventricular Septal Defect" and is also known as an "Interventricular communication". A VSD is defined as "a hole between the ventricular chambers or their remnants". (The VSD

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is defined on the basis of its margins as seen from the aspect of the morphologically right ventricle. In the setting of double outlet right ventricle, the defect provides the outflow from the morphologically left ventricle. In univentricular atrioventricular connections with functionally single left ventricle with an outflow chamber, the communication is referred to by some as a bulboventricular foramen.)} {A "Coarctation of the aorta" generally indicates a narrowing of the descending thoracic aorta just distal to the left subclavian artery. However, the term may also be accurately used to refer to a region of narrowing anywhere in the thoracic or abdominal aorta. 1010 Coronary artery anomaly, Anomalous aortic origins of the coronary arteries include a spectrum of anatomic variations of the normal Anomalous aortic origin of coronary artery origins. Coronary artery anomalies of coronary artery (AAOCA) aortic origin to be coded under this diagnostic field include: anomalies of take-off (high take-off), origin (sinus), branching, and number. An anomalous course of the coronary artery vessels is also significant. particularly those coronary arteries that arise or course between the great vessels. Coronary artery anomaly, In patients with anomalous pulmonary origin of the Anomalous pulmonary origin coronary artery, the coronary artery (most commonly (includes ALCAPA) the left coronary artery) arises from the pulmonary artery rather than from the aorta. Rarely, the right coronary artery, the circumflex, or both coronary arteries may arise from the pulmonary artery. 1030 Coronary artery anomaly, The most common of coronary artery anomalies, a Fistula coronary arteriovenous fistula is a communication between a coronary artery and either a chamber of the heart (coronary-cameral fistula) or any segment of the systemic or pulmonary circulation (coronary arteriovenous fistula). They may be congenital or acquired (traumatic, infectious, iatrogenic) in origin, and are mostly commonly seen singly, but occasionally multiple fistulas are present. Nomenclature schemes have been developed that further categorize the fistulas by vessel of origin and chamber of termination, and one angiographic classification scheme by Sakakibara has surgical implications. Coronary artery fistulas can be associated with other congenital heart anomalies such as tetralogy of Fallot, atrial septal defect, ventricular septal defect, and pulmonary atresia with intact ventricular septum, among others. The major cardiac defect should

diagnoses.

1040 Coronary artery anomaly, Aneurysm

Coronary artery aneurysms are defined as dilations of a coronary vessel 1.5 times the adjacent normal coronaries. There are two forms, saccular and fusiform (most common), and both may be single or multiple.

be listed as the primary diagnosis and the coronary artery fistula should be as an additional secondary

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		These aneurysms may be congenital or acquired (atherosclerotic, Kawasaki, systemic diseases other than Kawasaki, iatrogenic, infectious, or traumatic) in origin.
1050	Coronary artery anomaly, Other	Coronary artery anomalies which may fall within this category include coronary artery bridging and coronary artery stenosis, as well as secondary coronary artery variations seen in congenital heart defects such as tetralogy of Fallot, transposition of the great arteries, and truncus arteriosus (with the exception of variations that can be addressed by a more specific coronary artery anomaly code).
1070	Interrupted aortic arch	Indicate if the patient has the diagnosis of "Interrupted aortic arch". Interrupted aortic arch is defined as the loss of luminal continuity between the ascending and descending aorta. In most cases blood flow to the descending thoracic aorta is through a PDA, and there is a large VSD. Arch interruption is further defined by site of interruption. In type A, interruption is distal to the left subclavian artery; in type B interruption is between the left carotid and left subclavian arteries; and in type C interruption occurs between the innominate and left carotid arteries.
2020	Interrupted aortic arch + VSD	Indicate if the patient has the diagnosis of "Interrupted aortic arch + VSD". In the event of interrupted aortic arch occurring in association with VSD, code "Interrupted aortic arch + VSD", and then use additional (secondary) diagnostic codes to describe the interrupted aortic arch and the VSD separately to provide further documentation about the individual interrupted aortic arch and VSD types. {Interrupted aortic arch is defined as the loss of luminal continuity between the ascending and descending aorta. In most cases blood flow to the descending thoracic aorta is through a PDA, and there is a large VSD. Arch interruption is further defined by site of interruption. In type A, interruption is distal to the left subclavian artery; in type B interruption is between the left carotid and left subclavian arteries; and in type C interruption occurs between the innominate and left carotid arteries.} {A "VSD" is a "Ventricular Septal Defect" and is also known as an "Interventricular communication". A VSD is defined as "a hole between the ventricular chambers or their remnants". (The VSD is defined on the basis of its margins as seen from the aspect of the morphologically right ventricle. In the setting of double outlet right ventricle, the defect provides the outflow from the morphologically left ventricle. In univentricular atrioventricular connections with functionally single left ventricle with an outflow chamber, the communication is referred to by some as a bulboventricular foramen.)}
2000	Interrupted aortic arch + AP	Indicate if the patient has the diagnosis of "Interrupted

window (aortopulmonary window)

aortic arch + AP window (aortopulmonary window)". In the event of interrupted aortic arch occurring in association with AP window, code "Interrupted aortic arch + AP window (aortopulmonary window)", and then use additional (secondary) diagnostic codes to describe the interrupted aortic arch and the AP window separately to provide further documentation about the individual interrupted aortic arch and AP window types. {Interrupted aortic arch is defined as the loss of luminal continuity between the ascending and descending aorta. In most cases blood flow to the descending thoracic aorta is through a PDA, and there is a large VSD. Arch interruption is further defined by site of interruption. In type A, interruption is distal to the left subclavian artery; in type B interruption is between the left carotid and left subclavian arteries; and in type C interruption occurs between the innominate and left carotid arteries. } {An "AP window (aortopulmonary window)" is defined as a defect with side-to-side continuity of the lumens of the aorta and pulmonary arterial tree, which is distinguished from common arterial trunk (truncus arteriosus) by the presence of two arterial valves or their atretic remnants. (In other words, an aortopulmonary window is a communication between the main pulmonary artery and ascending aorta in the presence of two separate semilunar [pulmonary and aortic] valves. The presence of two separate semilunar valves distinguishes AP window from truncus arteriosus. Type 1 proximal defect: AP window located just above the sinus of Valsalva, a few millimeters above the semilunar valves, with a superior rim but little inferior rim separating the AP window from the semilunar valves. Type 2 distal defect: AP window located in the uppermost portion of the ascending aorta, with a well-formed inferior rim but little superior rim. Type 3 total defect: AP window involving the majority of the ascending aorta, with little superior and inferior rims. The intermediate type of AP window is similar to the total defect but with adequate superior and inferior rims. In the event of AP window occurring in association with interrupted aortic arch, code "Interrupted aortic arch + AP window (aortopulmonary window)", and then use additional (secondary) diagnostic codes to describe the interrupted aortic arch and AP window separately to provide further documentation about the individual interrupted arch and AP window types.)}

1080 Patent ductus arteriosus Indicate if the patient has the diagnosis of "Patent ductus arteriosus". The ductus arteriosus (arterial duct) is an essential feature of fetal circulation, connecting the main pulmonary trunk with the descending aorta, distal to the origin of the left subclavian artery. In most patients it is on the left side. If a right aortic arch is

		present, it may be on the right or the left; very rarely it is bilateral. When luminal patency of the duct persists post-natally, it is referred to as patent ductus arteriosus (patent arterial duct). The length and diameter may vary considerably from case to case. The media of the ductus consists mainly of smooth muscle that is arranged spirally, and the intima is much thicker than that of the aorta. (A patent ductus arteriosus is a vascular arterial connection between the thoracic aorta and the pulmonary artery. Most commonly a PDA has its origin from the descending thoracic aorta, just distal and opposite the origin of the left subclavian artery. The insertion of the ductus is most commonly into the very proximal left pulmonary artery at its junction with the main pulmonary artery. Origination and insertion sites can be variable, however.)
1090	Vascular ring	The term vascular ring refers to a group of congenital vascular anomalies that encircle and compress the esophagus and trachea. The compression may be from a complete anatomic ring (double aortic arch or right aortic arch with a left ligamentum) or from a compressive effect of an aberrant vessel (innominate artery compression syndrome).
1100	Pulmonary artery sling	In pulmonary artery sling, the left pulmonary artery originates from the right pulmonary artery and courses posteriorly between the trachea and esophagus in its route to the left lung hilum, causing a sling-like compression of the trachea.
1110	Aortic aneurysm (including pseudoaneurysm)	An aneurysm of the aorta is defined as a localized dilation or enlargement of the aorta at any site along its length (from aortic annulus to aortoiliac bifurcation). A true aortic aneurysm involves all layers of the aortic wall. A false aortic aneurysm (pseudoaneurysm) is defined as a dilated segment of the aorta not containing all layers of the aortic wall and may include postoperative or post-procedure false aneurysms at anastomotic sites, traumatic aortic injuries or transections, and infectious processes leading to a contained rupture.
1120	Aortic dissection	Aortic dissection is a separation of the layers of the aortic wall. Extension of the plane of the dissection may progress to free rupture into the pericardium, mediastinum, or pleural space if not contained by the outer layers of the media and adventitia. Dissections may be classified as acute or chronic (if they have been present for more than 14 days).
1130	Lung disease, Benign	Lung disease arising from any etiology (congenital or acquired) which does not result in death or lung or heart- lung transplant; examples might be non-life threatening asthma or emphysema, benign cysts.
1140	Lung disease, Malignant	Lung disease arising from any etiology (congenital or

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		acquired, including pulmonary parenchymal disease, pulmonary vascular disease, congenital heart disease, neoplasm, etc.) which may result in death or lung or heart-lung transplant.
1160	Tracheal stenosis	Tracheal stenosis is a reduction in the anatomic luminal diameter of the trachea by more than 50% of the remaining trachea. This stenosis may be congenital or acquired (as in post-intubation or traumatic tracheal stenosis).
1170	Airway disease	Included in this diagnostic category would be airway pathology not included under the definition of tracheal stenosis such as tracheomalacia, bronchotracheomalacia, tracheal right upper lobe, bronchomalacia, subglottic stenosis, bronchial stenosis, etc.
1430	Pleural disease, Benign	Benign diseases of the mediastinal or visceral pleura.
1440	Pleural disease, Malignant	Malignant diseases of the mediastinal or visceral pleura.
1450	Pneumothorax	A collection of air or gas in the pleural space.
1460	Pleural effusion	Abnormal accumulation of fluid in the pleural space.
1470	Chylothorax	The presence of lymphatic fluid in the pleural space secondary to a leak from the thoracic duct or its branches. Chylothorax is a specific type of pleural effusion.
1480	Empyema	A collection of purulent material in the pleural space, usually secondary to an infection.
1490	Esophageal disease, Benign	Any benign disease of the esophagus.
1500	Esophageal disease, Malignant	Any malignant disease of the esophagus.
1505	Mediastinal disease	Any disease of the mediastinum awaiting final benign/malignant pathology determination.
1510	Mediastinal disease, Benign	Any benign disease of the mediastinum.
1520	Mediastinal disease, Malignant	Any malignant disease of the mediastinum.
1540	Diaphragm paralysis	Paralysis of diaphragm, unilateral or bilateral.
1550	Diaphragm disease, Other	Any disease of the diaphragm other than paralysis.
2160	Rib tumor, Benign	Non-cancerous tumor of rib(s) (e.g., fibrous dysplasia)
2170	Rib tumor, Malignant	Cancerous tumor of rib(s)- primary (e.g., osteosarcoma, chondrosarcoma)
2180	Rib tumor, Metastatic	Cancerous tumor metastasized to rib(s)from a different primary location
2190	Sternal tumor, Benign	Non-cancerous tumor of sternum (e.g., fibrous dysplasia)
2200	Sternal tumor, Malignant	Cancerous tumor of sternum - primary (e.g., osteosarcoma, chondrosarcoma)
2210	Sternal tumor, Metastatic	Cancerous tumor metastasized to sternum from a different primary location

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2220	Pectus carinatum	Pectus carinatum represents a spectrum of protrusion abnormalities of the anterior chest wall. Severe deformity may result in dyspnea and decreased endurance. Some patients develop rigidity of the chest wall with decreased lung compliance, progressive emphysema, and increased frequency of respiratory tract infections.
2230	Pectus excavatum	Pectus excavatum is a congenital chest wall deformity in which several ribs and the sternum grow abnormally, producing a concave, or caved-in, appearance in the anterior chest wall. Pectus excavatum is the most common type of congenital chest wall abnormality. It occurs in an estimated 1 in 300-400 births, with male predominance (male-to-female ratio of 3:1). The condition is typically noticed at birth, and more than 90% of cases are diagnosed within the first year of life. Worsening of the chest's appearance and the onset of respiratory symptoms are usually reported during rapid bone growth in the early teenage years.
2240	Thoracic outlet syndrome	Thoracic outlet syndrome (TOS) is caused by compression at the superior thoracic outlet wherein excess pressure is placed on a neurovascular bundle passing between the anterior scalene and middle scalene muscles. It can affect the brachial plexus (nerves that pass into the arm from the neck), the subclavian artery, and - rarely - the vein, which does not normally pass through the scalene hiatus. TOS may occur due to a positional cause - for example, by abnormal compression from the clavicle (collarbone) and shoulder girdle on arm movement. There are also several static forms, caused by abnormalities, enlargement, or spasm of the various muscles surrounding the arteries, veins, and/or brachial plexus, a fixation of a first rib, or a cervical rib. The most common causes of thoracic outlet syndrome include physical trauma from a car accident, repetitive injuries from a job such as frequent non- ergonomic use of a keyboard, sports-related activities, anatomical defects such as having an extra rib, and pregnancy.
1180	Arrhythmia	Any cardiac rhythm other than normal sinus rhythm.
2040	Arrhythmia, Atrial	Indicate if the patient has the diagnosis of "Arrhythmia, Atrial". "Arrhythmia, Atrial" ROOT Definition = Non-sinus atrial rhythm with or without atrioventricular conduction. [1]. [1]. Jacobs JP. (Editor). 2008 Supplement to Cardiology in the Young: Databases and The Assessment of Complications associated with The Treatment of Patients with Congenital Cardiac Disease, Prepared by: The Multi-Societal Database Committee for Pediatric and Congenital Heart Disease, Cardiology in the Young, Volume 18, Supplement S2, pages 1–530, December 9, 2008, page 373.
2050	Arrhythmia, Junctional	Indicate if the patient has the diagnosis of "Arrhythmia,

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		Junctional". "Arrhythmias arising from the atrioventricular junction; may be bradycardia, tachycardia, premature beats, or escape rhythm [1]. [1]. Jacobs JP. (Editor). 2008 Supplement to Cardiology in the Young: Databases and The Assessment of Complications associated with The Treatment of Patients with Congenital Cardiac Disease, Prepared by: The Multi-Societal Database Committee for Pediatric and Congenital Heart Disease, Cardiology in the Young, Volume 18, Supplement S2, pages 1–530, December 9, 2008, page 379.
2060	Arrhythmia, Ventricular	Indicate if the patient has the diagnosis of "Arrhythmia, Ventricular". "Arrhythmia, Ventricular" ROOT Definition = Abnormal rhythm originating from the ventricles [1]. [1]. Jacobs JP. (Editor). 2008 Supplement to Cardiology in the Young: Databases and The Assessment of Complications associated with The Treatment of Patients with Congenital Cardiac Disease, Prepared by: The Multi-Societal Database Committee for Pediatric and Congenital Heart Disease, Cardiology in the Young, Volume 18, Supplement S2, pages 1–530, December 9, 2008, page 393.
1185	Arrhythmia, Heart block	Atrioventricular block may be congenital or acquired, and may be of varying degree (first, second, or third degree).
1190	Arrhythmia, Heart block, Acquired	Atrioventricular block, when acquired, may be post- surgical, or secondary to myocarditis or other etiologies; the block may be first, second or third degree.
1200	Arrhythmia, Heart block, Congenital	Atrioventricular block, when congenital, may be first, second or third degree block.
1220	Arrhythmia, Pacemaker, Indication for replacement	Indications for pacemaker replacement may include end of generator life, malfunction, or infection.
1230	Atrial Isomerism, Left	In isomerism, both appendages are of like morphology or structure; in left atrial isomerism both the right atrium and left atrium appear to be a left atrium structurally.
1240	Atrial Isomerism, Right	In isomerism, both appendages are of like morphology or structure; in right atrial isomerism both the right atrium and left atrium appear to be a right atrium structurally.
2090	Dextrocardia	Indicate if the patient has the diagnosis of "Dextrocardia". "Dextrocardia" is most usually considered synonymous with a right-sided ventricular mass, whilst "dextroversion" is frequently defined as a configuration where the ventricular apex points to the right. In a patient with the usual atrial arrangement, or situs solitus, dextroversion, therefore, implies a turning to the right of the heart [1]. [1]. Jacobs JP, Anderson RH, Weinberg P, Walters III HL, Tchervenkov CI, Del Duca D, Franklin RCG, Aiello VD, Béland MJ, Colan

		SD, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Elliott MJ. The nomenclature, definition and classification of cardiac structures in the setting of heterotaxy. In 2007 Supplement to Cardiology in the Young: Controversies and Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Anderson RH, Jacobs JP, and Wernovsky G, editors. Cardiology in the Young, Volume 17, Supplement 2, pages 1–28, doi: 10.1017/S1047951107001138, September 2007.
2100	Levocardia	Indicate if the patient has the diagnosis of "Levocardia". "Levocardia" usually considered synonymous with a left-sided ventricular mass, whilst "levoversion" is frequently defined as a configuration where the ventricular apex points to the left [1]. [1]. Jacobs JP, Anderson RH, Weinberg P, Walters III HL, Tchervenkov CI, Del Duca D, Franklin RCG, Aiello VD, Béland MJ, Colan SD, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Elliott MJ. The nomenclature, definition and classification of cardiac structures in the setting of heterotaxy. In 2007 Supplement to Cardiology in the Young: Controversies and Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Anderson RH, Jacobs JP, and Wernovsky G, editors. Cardiology in the Young, Volume 17, Supplement 2, pages 1–28, doi: 10.1017/S1047951107001138, September 2007.
2110	Mesocardia	Indicate if the patient has the diagnosis of "Mesocardia". "Mesocardia" is most usually considered synonymous with the ventricular mass occupying the midline [1]. [1]. Jacobs JP, Anderson RH, Weinberg P, Walters III HL, Tchervenkov CI, Del Duca D, Franklin RCG, Aiello VD, Béland MJ, Colan SD, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Elliott MJ. The nomenclature, definition and classification of cardiac structures in the setting of heterotaxy. In 2007 Supplement to Cardiology in the Young: Controversies and Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Anderson RH, Jacobs JP, and Wernovsky G, editors. Cardiology in the Young, Volume 17, Supplement 2, pages 1–28, doi: 10.1017/S1047951107001138, September 2007.
2120	Situs inversus	Indicate if the patient has the diagnosis of "Situs inversus" of the atrial chambers. The development of morphologically right-sided structures on one side of the body, and morphologically left-sided structures on the other side, is termed lateralization. Normal lateralization, the usual arrangement, is also known as "situs solitus". The mirror-imaged arrangement is also known as "situs inversus". The term "visceroatrial situs" is often used to refer to the situs of the viscera and atria when their situs is in agreement. The

		arrangement of the organs themselves, and the arrangement of the atrial chambers, is not always the same. Should such disharmony be encountered, the sidedness of the organs and atrial chambers must be separately specified [1]. [1]. Jacobs JP, Anderson RH, Weinberg P, Walters III HL, Tchervenkov CI, Del Duca D, Franklin RCG, Aiello VD, Béland MJ, Colan SD, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Elliott MJ. The nomenclature, definition and classification of cardiac structures in the setting of heterotaxy. In 2007 Supplement to Cardiology in the Young: Controversies and Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Anderson RH, Jacobs JP, and Wernovsky G, editors. Cardiology in the Young, Volume 17, Supplement 2, pages 1–28, doi: 10.1017/S1047951107001138, September 2007.
1250	Aneurysm, Ventricular, Right (including pseudoaneurysm)	An aneurysm of the right ventricle is defined as a localized dilation or enlargement of the right ventricular wall.
1260	Aneurysm, Ventricular, Left (including pseudoaneurysm)	An aneurysm of the left ventricle is defined as a localized dilation or enlargement of the left ventricular wall.
1270	Aneurysm, Pulmonary artery	An aneurysm of the pulmonary artery is defined as a localized dilation or enlargement of the pulmonary artery trunk and its central branches (right and left pulmonary artery).
1280	Aneurysm, Other	A localized dilation or enlargement of a cardiac vessel or chamber not coded in specific fields available for aortic aneurysm, sinus of Valsalva aneurysm, coronary artery aneurysm, right ventricular aneurysm, left ventricular aneurysm, or pulmonary artery aneurysm.
1290	Hypoplastic RV	Small size of the right ventricle. This morphological abnormality usually is an integral part of other congenital cardiac anomalies and, therefore, frequently does not need to be coded separately. It should, however, be coded as secondary to an accompanying congenital cardiac anomaly if the right ventricular hypoplasia is not considered an integral and understood part of the primary congenital cardiac diagnosis. It would rarely be coded as a primary and/or isolated diagnosis.
1300	Hypoplastic LV	Small size of the left ventricle. This morphological abnormality usually is an integral part of other congenital cardiac anomalies and, therefore, frequently does not need to be coded separately. It should, however, be coded as secondary to an accompanying congenital cardiac anomaly if the left ventricular hypoplasia is not considered an integral and understood part of the primary congenital cardiac diagnosis. It would rarely be coded as a primary and/or isolated

		ulagilosis.
2070	Postoperative bleeding	Indicate if the patient has the diagnosis of "Postoperative bleeding".
1310	Mediastinitis	Inflammation/infection of the mediastinum, the cavity between the lungs which holds the heart, great vessels, trachea, esophagus, thymus, and connective tissues. In the United States mediastinitis occurs most commonly following chest surgery.
1320	Endocarditis	An infection of the endocardial surface of the heart, which may involve one or more heart valves (native or prosthetic) or septal defects or prosthetic patch material placed at previous surgery.
1325	Rheumatic heart disease	Heart disease, usually valvar (e.g., mitral or aortic), following an infection with group A streptococci
1330	Prosthetic valve failure	Indicate if the patient has the diagnosis of "Prosthetic valve failure". This diagnosis is the primary diagnosis to be entered for patients undergoing replacement of a previously placed valve (not conduit) prosthesis, whatever type (e.g., bioprosthetic, mechanical, etc.). Failure may be due to, among others, patient somatic growth, malfunction of the prosthesis, or calcification or overgrowth of the prosthesis (e.g., pannus formation). Secondary or fundamental diagnosis would relate to the underlying valve disease entity. As an example, a patient undergoing removal or replacement of a prosthetic pulmonary valve previously placed for pulmonary insufficiency after repair of tetralogy of Fallot would have as a primary diagnosis "Prosthetic valve failure", as a secondary diagnosis "Pulmonary insufficiency", and as a fundamental diagnosis "Tetralogy of Fallot".
1340	Myocardial infarction	A myocardial infarction is the development of myocardial necrosis caused by a critical imbalance between the oxygen supply and demand of the myocardium. While a myocardial infarction may be caused by any process that causes this imbalance it most commonly results from plaque rupture with thrombus formation in a coronary vessel, resulting in an acute reduction of blood supply to a portion of the myocardium. Myocardial infarction is a usual accompaniment of anomalous left coronary artery from the pulmonary artery (ALCAPA).
1350	Cardiac tumor	An abnormal growth of tissue in or on the heart, demonstrating partial or complete lack of structural organization, and no functional coordination with normal cardiac tissue. Commonly, a mass is recognized which is distinct from the normal structural components of the heart. A primary cardiac tumor is one that arises directly from tissues of the heart, (e.g., myxoma, fibroelastoma, rhabdomyoma, fibroma, lipoma, pheochromocytoma, teratoma, hemangioma,

diagnosis.

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		mesothesioloma, sarcoma). A secondary cardiac tumor is one that arises from tissues distant from the heart, with subsequent spread to the otherwise normal tissues of the heart, (e.g., renal cell tumor with caval extension from the kidney to the level of the heart or tumor with extension from other organs or areas of the body (hepatic, adrenal, uterine, infradiaphragmatic)). N.B., in the nomenclature system developed, cardiac thrombus and cardiac vegetation are categorized as primary cardiac tumors.
1360	Pulmonary AV fistula	An abnormal intrapulmonary connection (fistula) between an artery and vein that occurs in the blood vessels of the lungs. Pulmonary AV fistulas may be seen in association with congenital heart defects; the associated cardiac defect should be coded as well.
1370	Pulmonary embolism	A pulmonary embolus is a blockage of an artery in the lungs by fat, air, clumped tumor cells, or a blood clot.
1385	Pulmonary vascular obstructive disease	 Pulmonary vascular obstructive disease (PVOD) other than those specifically defined elsewhere (Eisenmenger's pulmonary vascular obstructive disease, primary pulmonary hypertension, persistent fetal circulation). The spectrum includes PVOD arising from (1) pulmonary arterial hypertension or (2) pulmonary venous hypertension or (3) portal hypertension, or (4) collage vascular disease, or (5) drug or toxin induced, or (6) diseases of the respiratory system, or (7) chronic thromboembolic disease, among others.
1390	Pulmonary vascular obstructive disease (Eisenmenger's)	 "Eisenmenger syndrome" could briefly be described as "Acquired severe pulmonary vascular disease associated with congenital heart disease (Eisenmenger)". Eisenmenger syndrome is an acquired condition. In Eisenmenger-type pulmonary vascular obstructive disease, long-term left-to-right shunting (e.g., through a ventricular or atrial septal defect, patent ductus arteriosus, aortopulmonary window) can lead to chronic pulmonary hypertension with resultant pathological changes in the pulmonary vessels. The vessels become thick-walled, stiff, noncompliant, and may be obstructed. In Eisenmenger syndrome, the long-term left-to-right shunting will reverse and become right to left. Please note that the specific heart defect should be coded as a secondary diagnosis.
1400	Primary pulmonary hypertension	Primary pulmonary hypertension is a rare disease characterized by elevated pulmonary artery hypertension with no apparent cause. Two forms are included in the nomenclature, a sporadic form and a familial form which can be linked to the BMPR-II gene.
1410	Persistent fetal circulation	Persistence of the blood flow pattern seen in fetal life, in which high pulmonary vascular resistance in the lungs results in decreased blood flow to the lungs. Normally, after birth pulmonary pressure falls with a

		fall in pulmonary vascular resistance and there is increased perfusion of the lungs. Persistent fetal circulation, also known as persistent pulmonary hypertension of the newborn, can be related to lung or diaphragm malformations or lung immaturity.
1420	Meconium aspiration	Aspiration of amniotic fluid stained with meconium before, during, or after birth can lead to pulmonary sequelae including (1) pneumothorax, (2) pneumomediastinum, (3) pneumopericardium, (4) lung infection, and (5) meconium aspiration syndrome (MAS) with persistent pulmonary hypertension.
2250	Kawasaki disease	Kawasaki disease, also known as Kawasaki syndrome, is an acute febrile illness of unknown etiology that primarily affects children younger than 5 years of age. it was first described in Japan in 1967, and the first cases outside of Japan were reported in Hawaii in 1976. It is characterized by fever, rash, swelling of the hands and feet, irritation and redness of the whites of the eyes, swollen lymph glands in the neck, and irritation and inflammation of the mouth, lips, and throat. Serious complications of Kawasaki disease include coronary artery dilations and aneurysms, and Kawasaki disease is a leading cause of acquired heart disease in children in the United States. The standard treatment with intravenous immunoglobulin and aspirin substantially decreases the development of coronary artery abnormalities.
1560	Cardiac, Other	Any cardiac diagnosis not specifically delineated in other diagnostic codes.
1570	Thoracic and/or mediastinal, Other	Any thoracic and/or mediastinal disease not specifically delineated in other diagnostic codes.
1580	Peripheral vascular, Other	Any peripheral vascular disease (congenital or acquired) or injury (from trauma or iatrogenic); vessels involved may include, but are not limited to femoral artery, femoral vein, iliac artery, brachial artery, etc.
2260	Complication of cardiovascular catheterization procedure	Unspecified complication of cardiovascular catheterization procedure
2270	Complication of cardiovascular catheterization procedure, Device embolization	Migration or movement of device introduced during a cardiac catheterization procedure to an unintended location
2280	Complication of cardiovascular catheterization procedure, Device malfunction	Malfunction of a device introduced during a cardiac catheterization procedure
2290	Complication of cardiovascular catheterization procedure, Perforation	Perforation or puncture caused by a device introduced during a cardiac catheterization procedure
2300	Complication of	Unspecified complication of interventional radiology

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	interventional radiology procedure	procedure
2310	Complication of interventional radiology procedure, Device embolization	Migration or movement of device introduced during an interventional radiology procedure to an unintended location
2320	Complication of interventional radiology procedure, Device malfunction	Malfunction of a device introduced during an interventional radiology procedure
2330	Complication of interventional radiology procedure, Perforation	Perforation or puncture caused by a device introduced during an interventional radiology procedure
2340	Foreign body, Intracardiac foreign body	Presence of a foreign body within the heart
2350	Foreign body, Intravascular foreign body	Presence of a foreign body within an artery or vein
2360	Open sternum with closed skin	Sternotomy edges not re-approximated prior to closure of skin incision
2370	Open sternum with open skin (includes membrane placed to close skin)	Sternotomy and skin incision left open following surgery, covered with a membrane or dressing
2380	Retained sternal wire causing irritation	Surgically placed wire causing soft tissue irritation, pain or swelling (not infected)
2390	Syncope	A transient, self-limited loss of consciousness with an inability to maintain postural tone that is followed by spontaneous recovery. The term syncope excludes seizures, coma, shock, or other states of altered consciousness.
2400	Trauma, Blunt	Injury (ies) sustained from blunt force, caused by motor vehicle accidents, falls, blows or crush injuries
2410	Trauma, Penetrating	Injury (ies) sustained as a result of sharp force, including cutting or piercing instruments or objects, bites, or firearm injuries from projectiles.
7000	Normal heart	Normal heart.
7777	Miscellaneous, Other	Any disease (congenital or acquired) not specifically delineated in other diagnostic codes.
4010	Status post - PFO, Primary closure	
4020	Status post - ASD repair, Primary closure	
4030	Status post - ASD repair, Patch	
4040	Status post - ASD repair, Device	
6110	Status post ASD repair	

6110 Status post - ASD repair,

	Patch + PAPVC repair
4050	Status post - ASD, Common atrium (single atrium), Septation
4060	Status post - ASD creation/enlargement
4070	Status post - ASD partial closure
4080	Status post - Atrial septal fenestration
4085	Status post - Atrial fenestration closure
4100	Status post - VSD repair, Primary closure
4110	Status post - VSD repair, Patch
4120	Status post - VSD repair, Device
4130	Status post - VSD, Multiple, Repair
4140	Status post - VSD creation/enlargement
4150	Status post - Ventricular septal fenestration
4170	Status post - AVC (AVSD) repair, Complete (CAVSD)
4180	Status post - AVC (AVSD) repair, Intermediate (Transitional)
4190	Status post - AVC (AVSD) repair, Partial (Incomplete) (PAVSD)
6300	Status post - Valvuloplasty, Common atrioventricular valve
6250	Status post - Valvuloplasty converted to valve replacement in the same operation, Common atrioventricular valve
6230	Status post - Valve replacement, Common atrioventricular valve
4210	Status post - AP window

- 4210 Status post AP window repair
- 4220 Status post Pulmonary

artery origin from ascending aorta (hemitruncus) repair

- 4230 Status post Truncus arteriosus repair
- 4240 Status post Valvuloplasty, Truncal valve
- 6290 Status post Valvuloplasty converted to valve replacement in the same operation, Truncal valve
- 4250 Status post Valve replacement, Truncal valve
- 6220 Status post Truncus + Interrupted aortic arch repair (IAA) repair
- 4260 Status post PAPVC repair
- 4270 Status post PAPVC, Scimitar, Repair
- 6120 Status post PAPVC repair, Baffle redirection to left atrium with systemic vein translocation (Warden) (SVC sewn to right atrial appendage)
- 4280 Status post TAPVC repair
- 6200 Status post TAPVC repair + Shunt - systemic-topulmonary
- 4290 Status post Cor triatriatum repair
- 4300 Status post Pulmonary venous stenosis repair
- 4310 Status post Atrial baffle procedure (non-Mustard, non-Senning)
- 4330 Status post Anomalous systemic venous connection repair
- 4340 Status post Systemic venous stenosis repair
- 4350 Status post TOF repair, No ventriculotomy
- 4360 Status post TOF repair, Ventriculotomy, Nontransanular patch
- 4370 Status post TOF repair, Ventriculotomy, Transanular

patch

- 4380 Status post TOF repair, RV-PA conduit
- 4390 Status post TOF AVC (AVSD) repair
- 4400 Status post TOF Absent pulmonary valve repair
- 4420 Status post Pulmonary atresia - VSD (including TOF, PA) repair
- 6700 Status post Pulmonary atresia - VSD - MAPCA repair, Complete single stage repair (1-stage that includes bilateral pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])
- 6710 Status post Pulmonary atresia - VSD - MAPCA repair, Status post prior complete unifocalization (includes VSD closure + RV to PA connection [with or without conduit])
- 6720 Status post Pulmonary atresia - VSD - MAPCA repair, Status post prior incomplete unifocalizarion (includes completion of pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])
- 6730 Status post Unifocalization MAPCA(s), Bilateral pulmonary unifocalization -Complete unifocalization (all usable MAPCA[s] are incorporated)
- 6740 Status post Unifocalization MAPCA(s), Bilateral pulmonary unifocalization -Incomplete unifocalization (not all usable MAPCA[s] are incorporated)
- 6750 Status post Unifocalization MAPCA(s), Unilateral pulmonary unifocalization

4440	Status post - Unifocalization MAPCA(s)
4450	Status post - Occlusion of MAPCA(s)
4460	Status post - Valvuloplasty, Tricuspid
6280	Status post - Valvuloplasty converted to valve replacement in the same operation, Tricuspid
4465	Status post - Ebstein's repair

- 4470 Status post Valve replacement, Tricuspid (TVR)
- 4480 Status post Valve closure, Tricuspid (exclusion, univentricular approach)
- 4490 Status post Valve excision, Tricuspid (without replacement)
- 4500 Status post Valve surgery, Other, Tricuspid
- 4510 Status post RVOT procedure
- 4520 Status post 1 1/2 ventricular repair
- 4530 Status post PA, reconstruction (plasty), Main (trunk)
- 4540 Status post PA, reconstruction (plasty), Branch, Central (within the hilar bifurcation)
- 4550 Status post PA, reconstruction (plasty), Branch, Peripheral (at or beyond the hilar bifurcation)
- 4570 Status post DCRV repair
- 4590 Status post Valvuloplasty, Pulmonic
- 6270 Status post Valvuloplasty converted to valve replacement in the same operation, Pulmonic
- 4600 Status post Valve replacement, Pulmonic (PVR)
- 4630 Status post Valve excision, Pulmonary (without

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	replacement)		
4640	Status post - Valve closure, Semilunar		
4650	Status post - Valve surgery, Other, Pulmonic		
4610	Status post - Conduit placement, RV to PA		
4620	Status post - Conduit placement, LV to PA		
5774	Status post - Conduit placement, Ventricle to aorta		
5772	Status post - Conduit placement, Other		
4580	Status post - Conduit reoperation		
4660	Status post - Valvuloplasty, Aortic		
6240	Status post - Valvuloplasty converted to valve replacement in the same operation, Aortic		
6310	Status post - Valvuloplasty converted to valve replacement in the same operation, Aortic – with Ross procedure		
6320	Status post - Valvuloplasty converted to valve replacement in the same operation, Aortic – with Ross- Konno procedure		
4670	Status post - Valve replacement, Aortic (AVR)		
4680	Status post - Valve replacement, Aortic (AVR), Mechanical		
4690	Status post - Valve replacement, Aortic (AVR), Bioprosthetic		
4700	Status post - Valve replacement, Aortic (AVR), Homograft		

- 4715 Status post Aortic root replacement, Bioprosthetic
- 4720 Status post Aortic root replacement, Mechanical

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4730	Status post - Aortic root replacement, Homograft	
4735	Status post - Aortic root replacement, Valve sparing	
4740	Status post - Ross procedure	
4750	Status post - Konno procedure	
4760	Status post - Ross-Konno procedure	
4770	Status post - Other annular enlargement procedure	
4780	Status post - Aortic stenosis, Subvalvar, Repair	
6100	Status post - Aortic stenosis, Subvalvar, Repair, With myectomy for IHSS	
4790	Status post - Aortic stenosis, Supravalvar, Repair	
4800	Status post - Valve surgery, Other, Aortic	
4810	Status post - Sinus of Valsalva, Aneurysm repair	
4820	Status post - LV to aorta tunnel repair	
4830	Status post - Valvuloplasty, Mitral	
6260	Status post - Valvuloplasty converted to valve replacement in the same operation, Mitral	
4840	Status post - Mitral stenosis, Supravalvar mitral ring repair	
4850	Status post - Valve replacement, Mitral (MVR)	
4860	Status post - Valve surgery, Other, Mitral	
4870	Status post - Norwood procedure	
4880	Status post - HLHS biventricular repair	
6755	Status post - Conduit insertion right ventricle to pulmonary artery + Intraventricular tunnel left ventricle to neoaorta + Arch reconstruction (Rastelli and Norwood tune arch	

Norwood type arch

reconstruction) (Yasui)

- 6160 Status post Hybrid Approach "Stage 1", Application of RPA & LPA bands
- 6170 Status post Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA)
- 6180 Status post Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA) + application of RPA & LPA bands
- 6140 Status post Hybrid approach "Stage 2", Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Aortic arch repair (Norwood [Stage 1] + Superior Cavopulmonary anastomosis(es) + PA Debanding)
- 6150 Status post Hybrid approach "Stage 2", Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Without aortic arch repair
- 6760 Status post Hybrid Approach, Transcardiac balloon dilation
- 6770 Status post Hybrid Approach, Transcardiac transcatheter device placement
- 1590 Status post Transplant, Heart
- 1610 Status post Transplant, Heart and lung
- 4910 Status post Partial left ventriculectomy (LV volume reduction surgery) (Batista)
- 4920 Status post Pericardial drainage procedure
- 4930 Status post Pericardiectomy
- 4940 Status post Pericardial procedure, Other

- 4950 Status post - Fontan, Atriopulmonary connection 4960 Status post - Fontan, Atrioventricular connection 4970 Status post - Fontan, TCPC, Lateral tunnel, Fenestrated 4980 Status post - Fontan, TCPC, Lateral tunnel, Nonfenestrated 5000 Status post - Fontan, TCPC, External conduit, Fenestrated 5010 Status post - Fontan, TCPC, External conduit, Nonfenestrated 6780 Status post - Fontan, TCPC, Intra/extracardiac conduit, Fenestrated 6790 Status post - Fontan, TCPC, Intra/extracardiac conduit, Nonfenestrated 5025 Status post - Fontan revision or conversion (Re-do Fontan) 5030 Status post - Fontan, Other 6340 Status post - Fontan + Atrioventricular valvuloplasty 5035 Status post - Ventricular septation 5050 Status post - Congenitally corrected TGA repair, Atrial switch and ASO (double switch) 5060 Status post - Congenitally corrected TGA repair, Atrial switch and Rastelli 5070 Status post - Congenitally corrected TGA repair, VSD closure 5080 Status post - Congenitally corrected TGA repair, VSD closure and LV to PA conduit 5090 Status post - Congenitally
- corrected TGA repair, Other
- 5110 Status post Arterial switch operation (ASO)
- 5120 Status post - Arterial switch operation (ASO) and VSD repair

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- 5123 Status post Arterial switch procedure + Aortic arch repair
- 5125 Status post Arterial switch procedure and VSD repair + Aortic arch repair
- 5130 Status post Senning
- 5140 Status post Mustard
- 5145 Status post Atrial baffle procedure, Mustard or Senning revision
- 5150 Status post Rastelli
- 5160 Status post REV
- 6190 Status post Aortic root translocation over left ventricle (Including Nikaidoh procedure)
- 6210 Status post TGA, Other procedures (Kawashima, LV-PA conduit, other)
- 5180 Status post DORV, Intraventricular tunnel repair
- 5200 Status post DOLV repair
- 5210 Status post Coarctation repair, End to end
- 5220 Status post Coarctation repair, End to end, Extended
- 5230 Status post Coarctation repair, Subclavian flap
- 5240 Status post Coarctation repair, Patch aortoplasty
- 5250 Status post Coarctation repair, Interposition graft
- 5260 Status post Coarctation repair, Other
- 5275 Status post Coarctation repair + VSD repair
- 5280 Status post Aortic arch repair
- 5285 Status post Aortic arch repair + VSD repair
- 5290 Status post Coronary artery fistula ligation
- 5291 Status post Anomalous origin of coronary artery from pulmonary artery repair
- 5300 Status post Coronary artery

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bypass

5305	Status post - Anomalous
	aortic origin of coronary
	artery (AAOCA) repair

- 5310 Status post Coronary artery procedure, Other
- 5320 Status post Interrupted aortic arch repair
- 5330 Status post PDA closure, Surgical
- 5340 Status post PDA closure, Device
- 5360 Status post Vascular ring repair
- 5365 Status post Aortopexy
- 5370 Status post Pulmonary artery sling repair
- 5380 Status post Aortic aneurysm repair
- 5390 Status post Aortic dissection repair
- 5400 Status post Lung biopsy
- 1600 Status post Transplant, Lung(s)
- 5420 Status post Lung procedure, Other
- 5440 Status post Tracheal procedure
- 6800 Status post Muscle flap, Trunk (i.e., intercostal, pectus, or serratus muscle)
- 6810 Status post Muscle flap, Trunk (i.e. latissimus dorsi)
- 6820 Status post Removal, Sternal wire
- 6830 Status post Rib excision, Complete
- 6840 Status post Rib excision, Partial
- 6850 Status post Sternal fracture open treatment
- 6860 Status post Sternal resection, Radical resection of sternum
- 6870 Status post Sternal resection,

Radical resection of sternum with mediastinal lymphadenectomy

- 6880 Status post Tumor of chest wall - Excision including ribs
- 6890 Status post Tumor of chest wall - Excision including ribs, With reconstruction
- 6900 Status post Tumor of soft tissue of thorax - Excision of deep subfascial or intramuscular tumor
- 6910 Status post Tumor of soft tissue of thorax - Excision of subcutaneous tumor
- 6920 Status post Tumor of soft tissue of thorax - Radical resection
- 6930 Status post Hyoid myotomy and suspension
- 6940 Status post Muscle flap, Neck
- 6950 Status post Procedure on neck
- 6960 Status post Tumor of soft tissue of neck - Excision of deep subfascial or intramuscular tumor
- 6970 Status post Tumor of soft tissue of neck - Excision of subcutaneous tumor
- 6980 Status post Tumor of soft tissue of neck - Radical resection
- 6990 Status post Pectus bar removal
- 7005 Status post Pectus bar repositioning
- 7010 Status post Pectus repair, Minimally invasive repair (Nuss), With thoracoscopy
- 7020 Status post Pectus repair, Minimally invasive repair (Nuss), Without thoracoscopy
- 7030 Status post Pectus repair, Open repair
- 7040 Status post Division of

scalenus anticus, With resection of a cervical rib

- 7050 Status post Division of scalenus anticus, Without resection of a cervical rib
- 7060 Status post Rib excision, Excision of cervical rib
- 7070 Status post Rib excision, Excision of cervical rib, With sympathectomy
- 7080 Status post Rib excision, Excision of first rib
- 7090 Status post Rib excision, Excision of first rib, With sympathectomy
- 7100 Status post Procedure on thorax
- 5450 Status post Pacemaker implantation, Permanent
- 5460 Status post Pacemaker procedure
- 6350 Status post Explantation of pacing system
- 5470 Status post ICD (AICD) implantation
- 5480 Status post ICD (AICD) ([automatic] implantable cardioverter defibrillator) procedure
- 5490 Status post Arrhythmia surgery - atrial, Surgical Ablation
- 5500 Status post Arrhythmia surgery - ventricular, Surgical Ablation
- 6500 Status post Cardiovascular catheterization procedure, Diagnostic
- 6520 Status post Cardiovascular catheterization procedure, Diagnostic, Angiographic data obtained
- 6550 Status post Cardiovascular catheterization procedure, Diagnostic, Electrophysiology alteration
- 6540 Status post Cardiovascular

catheterization procedure, Diagnostic, Hemodynamic alteration

- 6510 Status post Cardiovascular catheterization procedure, Diagnostic, Hemodynamic data obtained
- 6530 Status post Cardiovascular catheterization procedure, Diagnostic, Transluminal test occlusion
- 6410 Status post Cardiovascular catheterization procedure, Therapeutic
- 6670 Status post Cardiovascular catheterization procedure, Therapeutic, Adjunctive therapy
- 6570 Status post Cardiovascular catheterization procedure, Therapeutic, Balloon dilation
- 6590 Status post Cardiovascular catheterization procedure, Therapeutic, Balloon valvotomy
- 6600 Status post Cardiovascular catheterization procedure, Therapeutic, Coil implantation
- 6610 Status post Cardiovascular catheterization procedure, Therapeutic, Device implantation
- 7110 Status post Cardiovascular catheterization procedure, Therapeutic, Device implantation attempted
- 6690 Status post Cardiovascular catheterization procedure, Therapeutic, Electrophysiological ablation
- 7120 Status post Cardiovascular catheterization procedure, Therapeutic, Intravascular foreign body removal
- 6640 Status post Cardiovascular catheterization procedure, Therapeutic, Perforation (establishing interchamber and/or intervessel

communication)

- 6580 Status post Cardiovascular catheterization procedure, Therapeutic, Septostomy
- 6620 Status post Cardiovascular catheterization procedure, Therapeutic, Stent insertion
- 6630 Status post Cardiovascular catheterization procedure, Therapeutic, Stent re-dilation
- 6650 Status post Cardiovascular catheterization procedure, Therapeutic, Transcatheter Fontan completion
- 6660 Status post Cardiovascular catheterization procedure, Therapeutic, Transcatheter implantation of valve
- 5590 Status post Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)
- 5600 Status post Shunt, Systemic to pulmonary, Central (shunt from aorta)
- 7130 Status post Shunt, Systemic to pulmonary, Central (shunt from aorta), Central shunt with an end-to-side connection between the transected main pulmonary artery and the side of the ascending aorta (i.e. Mee shunt)
- 5610 Status post Shunt, Systemic to pulmonary, Other
- 5630 Status post Shunt, Ligation and takedown
- 6095 Status post Shunt, Reoperation
- 5640 Status post PA banding (PAB)
- 5650 Status post PA debanding
- 5660 Status post Damus-Kaye-Stansel procedure (DKS) (creation of AP anastomosis without arch reconstruction)
- 5670 Status post Bidirectional

cavopulmonary anastomosis (BDCPA) (bidirectional Glenn)

- 5680 Status post Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn)
- 5690 Status post Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn)
- 5700 Status post HemiFontan
- 6330 Status post Superior cavopulmonary anastomosis(es) (Glenn or HemiFontan) + Atrioventricular valvuloplasty
- 6130 Status post Superior Cavopulmonary anastomosis(es) + PA reconstruction
- 7140 Status post Hepatic vein to azygous vein connection, Direct
- 7150 Status post Hepatic vein to azygous vein connection, Interposition graft
- 7160 Status post Kawashima operation (superior cavopulmonary connection in setting of interrupted IVC with azygous continuation)
- 5710 Status post Palliation, Other
- 6360 Status post ECMO cannulation
- 6370 Status post ECMO decannulation
- 5910 Status post ECMO procedure
- 5900 Status post Intraaortic balloon pump (IABP) insertion
- 5920 Status post Right/left heart assist device procedure
- 6390 Status post VAD explanation
- 6380 Status post VAD implantation

- 7170 Status post VAD change out
- 6420 Status post -Echocardiography procedure, Sedated transesophageal echocardiogram
- 6430 Status post -Echocardiography procedure, Sedated transthoracic echocardiogram
- 6435 Status post Noncardiovascular, Non-thoracic procedure on cardiac patient with cardiac anesthesia
- 6440 Status post Radiology procedure on cardiac patient, Cardiac Computerized Axial Tomography (CT Scan)
- 6450 Status post Radiology procedure on cardiac patient, Cardiac Magnetic Resonance Imaging (MRI)
- 6460 Status post Radiology procedure on cardiac patient, Diagnostic radiology
- 6470 Status post Radiology procedure on cardiac patient, Non-Cardiac Computerized Tomography (CT) on cardiac patient
- 6480 Status post Radiology procedure on cardiac patient, Non-cardiac Magnetic Resonance Imaging (MRI) on cardiac patient
- 6490 Status post Radiology procedure on cardiac patient, Therapeutic radiology
- 5720 Status post Aneurysm, Ventricular, Right, Repair
- 5730 Status post Aneurysm, Ventricular, Left, Repair
- 5740 Status post Aneurysm, Pulmonary artery, Repair
- 5760 Status post Cardiac tumor resection
- 5780 Status post Pulmonary AV fistula repair/occlusion
- 5790 Status post Ligation,

iac Surg	ery Database
	Pulmonary artery
5802	Status post - Pulmonary embolectomy, Acute pulmonary embolus
5804	Status post - Pulmonary embolectomy, Chronic pulmonary embolus
5810	Status post - Pleural drainage procedure
5820	Status post - Pleural procedure, Other
5830	Status post - Ligation, Thoracic duct
5840	Status post - Decortication
5850	Status post - Esophageal procedure
5860	Status post - Mediastinal procedure
5870	Status post - Bronchoscopy
5880	Status post - Diaphragm plication
5890	Status post - Diaphragm procedure, Other
5930	Status post - VATS (video- assisted thoracoscopic surgery)
5940	Status post - Minimally invasive procedure
5950	Status post - Bypass for noncardiac lesion
5960	Status post - Delayed sternal closure
5970	Status post - Mediastinal exploration
5980	Status post - Sternotomy wound drainage
7180	Status post - Intravascular stent removal
5990	Status post - Thoracotomy, Other
6000	Status post - Cardiotomy, Other
6010	Status post - Cardiac

- 6010 Status post Cardiac procedure, Other
- 6020 Status post Thoracic and/or

	mediastinal procedure, Other		
6030	Status post - Peripheral vascular procedure, Other		
6040	Status post - Miscellaneous procedure, Other		
11777	Status post - Other procedure		
Other	Card-Congenital Diagnosis 2	SeqNo:	4505

Short Name:	OCarCongDiag2
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Section Name: Other Cardiac Procedures

DBTableName AdultData

Long Name:

Definition: Indicate the second of the three most significant congenital diagnoses.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Other Card-Congenital	Format:	Text (categorical values specified by STS)
ParentShortName:	OCarCong	DataLength:	
ParentValue:	= "Yes"	Data Source:	User

ParentHarvestCodes: 1

Harvest Codes and Value Definitions:

Code:	Value:	Definition:
10	PFO	A small interatrial communication (or potential communication) confined to the region of the oval fossa (fossa ovalis) characterized by no deficiency of the primary atrial septum (septum primum) and a normal limbus with no deficiency of the septum secundum (superior interatrial fold).
20	ASD, Secundum	A congenital cardiac malformation in which there is an interatrial communication confined to the region of the oval fossa (fossa ovalis), most commonly due to a deficiency of the primary atrial septum (septum primum) but deficiency of the septum secundum (superior interatrial fold) may also contribute.
30	ASD, Sinus venosus	A congenital cardiac malformation in which there is a caval vein (vena cava) and/or pulmonary vein (or veins) that overrides the atrial septum or the septum secundum (superior interatrial fold) producing an interatrial or anomalous venoatrial communication Although the term sinus venosus atrial septal defect is commonly used, the lesion is more properly termed a sinus venosus communication because, while it functions as an interatrial communication, this lesion is not a defect of the atrial septum.
40	ASD, Coronary sinus	A congenital cardiac malformation in which there is a deficiency of the walls separating the left atrium from the coronary sinus allowing interatrial communication

Core:

Harvest:

Yes

Yes

		through the coronary sinus ostium.
50	ASD, Common atrium (single atrium)	Complete absence of the interatrial septum. "Single atrium" is applied to defects with no associated malformation of the atrioventricular valves. "Common atrium" is applied to defects with associated malformation of the atrioventricular valves.
2150	ASD, Postoperative interatrial communication	A surgically created communication between the atria.
71	VSD, Type 1 (Subarterial) (Supracristal) (Conal septal defect) (Infundibular)	A VSD that lies beneath the semilunar valve(s) in the conal or outlet septum.
73	VSD, Type 2 (Perimembranous) (Paramembranous) (Conoventricular)	A VSD that is confluent with and involves the membranous septum and is bordered by an atrioventricular valve, not including type 3 VSDs.
75	VSD, Type 3 (Inlet) (AV canal type)	A VSD that involves the inlet of the right ventricular septum immediately inferior to the AV valve apparatus.
77	VSD, Type 4 (Muscular)	A VSD completely surrounded by muscle.
79	VSD, Type: Gerbode type (LV-RA communication)	A rare form of VSD in which the defect is at the membranous septum; the communication is between the left ventricle and right atrium.
80	VSD, Multiple	More than one VSD exists. Each individual VSD may be coded separately to specify the individual VSD types.
100	AVC (AVSD), Complete (CAVSD)	Indicate if the patient has the diagnosis of "AVC (AVSD), Complete (CAVSD)". An "AVC (AVSD), Complete (CAVSD)" is a "complete atrioventricular canal" or a "complete atrioventricular septal defect" and occurs in a heart with the phenotypic feature of a common atrioventricular junction. An "AVC (AVSD), Complete (CAVSD)" is defined as an AVC with a common AV valve and both a defect in the atrial septum just above the AV valve (ostium primum ASD [a usually crescent-shaped ASD in the inferior (posterior) portion of the atrial septum just above the AV valve]) and a defect in the ventricular septum just below the AV valve. The AV valve is one valve that bridges both the right and left sides of the heart. Balanced AVC is an AVC with two essentially appropriately sized ventricles. Unbalanced AVC is an AVC defect with two ventricles in which one ventricle is inappropriately small. Such a patient may be thought to be a candidate for biventricular repair, or, alternatively, may be managed as having a functionally univentricular heart. AVC lesions with unbalanced ventricles so severe as to preclude biventricular repair should be classified as single ventricles. Rastelli type A: The common superior (anterior) bridging leaflet is effectively split in two at the septum. The left superior (anterior) leaflet is entirely over the left ventricle and the right superior (anterior) leaflet is similarly entirely

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over the right ventricle. The division of the common superior (anterior) bridging leaflet into left and right components is caused by extensive attachment of the superior (anterior) bridging leaflet to the crest of the ventricular septum by chordae tendineae. Rastelli type B: Rare, involves anomalous papillary muscle attachment from the right side of the ventricular septum to the left side of the common superior (anterior) bridging leaflet. Rastelli type C: Marked bridging of the ventricular septum by the superior (anterior) bridging leaflet, which floats freely (often termed a "free-floater") over the ventricular septum without chordal attachment to the crest of the ventricular septum. An AVC with two distinct left and right AV valve 110 AVC (AVSD), Intermediate (transitional) orifices but also with both an ASD just above and a VSD just below the AV valves. While these AV valves in the intermediate form do form two separate orifices they remain abnormal valves. The VSD is often restrictive. 120 AVC (AVSD), Partial An AVC with an ostium primum ASD (a usually (incomplete) (PAVSD) (ASD, crescent-shaped ASD in the inferior (posterior) portion primum) of the atrial septum just above the AV valve) and varying degrees of malformation of the left AV valve leading to varying degrees of left AV valve regurgitation. No VSD is present. AP window (aortopulmonary Indicate if the patient has the diagnosis of "AP window window) (aortopulmonary window)". An "AP window (aortopulmonary window)" is defined as a defect with side-to-side continuity of the lumens of the aorta and pulmonary arterial tree, which is distinguished from common arterial trunk (truncus arteriosus) by the presence of two arterial valves or their atretic remnants. (In other words, an aortopulmonary window is a communication between the main pulmonary artery and ascending aorta in the presence of two separate

semilunar [pulmonary and aortic] valves. The presence of two separate semilunar valves distinguishes AP window from truncus arteriosus. Type 1 proximal defect: AP window located just above the sinus of Valsalva, a few millimeters above the semilunar valves, with a superior rim but little inferior rim separating the AP window from the semilunar valves. Type 2 distal defect: AP window located in the uppermost portion of the ascending aorta, with a well-formed inferior rim but little superior rim. Type 3 total defect: AP window involving the majority of the ascending aorta, with little superior and inferior rims. The intermediate type of AP window is similar to the total defect but with adequate superior and inferior rims. In the event of AP window occurring in association with interrupted aortic arch, code "Interrupted aortic arch + AP window (aortopulmonary window)", and then use additional (secondary) diagnostic codes to describe the interrupted

		aortic arch and AP window separately to provide further documentation about the individual interrupted arch and AP window types.)
150	Pulmonary artery origin from ascending aorta (hemitruncus)	One pulmonary artery arises from the ascending aorta and the other pulmonary artery arises from the right ventricle. DOES NOT include origin of the right or left pulmonary artery from the innominate artery or the aortic arch via a patent ductus arteriosus or collateral artery.
160	Truncus arteriosus	Indicate if the patient has the diagnosis of "Truncus arteriosus". A truncus arteriosus is also known as a common arterial trunk and is defined as a heart in which a single arterial trunk arises from the heart, giving origin to the coronary arteries, the pulmonary arteries, and the systemic arterial circulation. In the majority of instances there is a ventricular septal defect and a single semilunar valve which may contain two, three, four, or more leaflets and is occasionally dysplastic. Often, the infundibular septum is virtually absent superiorly. In most instances the truncal valve overrides the true interventricular septum (and thus both ventricles), but very rarely the truncal valve may override the right ventricle entirely. In such instances, there may be no ventricular septal defect or a very small ventricular septal defect, in which case the left ventricle and mitral valve may be extremely hypoplastic.
170	Truncal valve insufficiency	Functional abnormality - insufficiency - of the truncal valve. May be further subdivided into grade of insufficiency (I, II, III, IV or mild, moderate, severe).
2010	Truncus arteriosus + Interrupted aortic arch	Indicate if the patient has the diagnosis of "Truncus arteriosus + Interrupted aortic arch". {A truncus arteriosus is also known as a common arterial trunk and is defined as a heart in which a single arterial trunk arises from the heart, giving origin to the coronary arteries, the pulmonary arteries, and the systemic arterial circulation. In the majority of instances there is a ventricular septal defect and a single semilunar valve which may contain two, three, four, or more leaflets and is occasionally dysplastic. The infundibular septum is virtually absent superiorly. In most instances the truncal valve overrides the true interventricular septum (and thus both ventricles), but very rarely the truncal valve may override the right ventricle entirely. If in such case there is no ventricular septal defect, then the left ventricle and mitral valve may be extremely hypoplastic.} {Interrupted aortic arch is defined as the loss of luminal continuity between the ascending and descending aorta. In most cases blood flow to the descending thoracic aorta is through a PDA, and there is a large VSD. Arch interruption is further defined by site of interruption. In type A, interruption is distal to the left subclavian artery; in type B interruption is

between the left carotid and left subclavian arteries; and in type C interruption occurs between the innominate and left carotid arteries.}

the right atrium via the atrial septal defect).

- 180 Partial anomalous pulmonary venous connection (PAPVC)
 Some, but not all of the pulmonary veins connect to the right atrium or to one or more of its venous tributaries. This definition excludes sinus venosus defects with normally connected but abnormally draining pulmonary veins (the pulmonary veins may drain abnormally into
- 190 Partial anomalous pulmonary venous connection (PAPVC), scimitar The right pulmonary vein(s) connect anomalously to the inferior vena cava or to the right atrium at the insertion of the inferior vena cava. The descending vertical vein resembles a scimitar (Turkish sword) on frontal chest x-
- 200 Total anomalous pulmonary venous connection (TAPVC), Type 1 (supracardiac)
- 210 Total anomalous pulmonary venous connection (TAPVC), Type 2 (cardiac)
- 220 Total anomalous pulmonary venous connection (TAPVC), Type 3 (infracardiac)
- 230 Total anomalous pulmonary venous connection (TAPVC), Type 4 (mixed)

lung directly from the aorta or its main branches. All of the pulmonary veins connect anomalously with the right atrium or to one or more of its venous tributaries. None of the pulmonary veins connect normally to the left atrium. In Type 1 (supracardiac) TAPVC, the anomalous connection is at the supracardiac level and can be obstructed or nonobstructed.

ray. Frequently associated with: hypoplasia of the right lung with bronchial anomalies; dextroposition and/or dextrorotation of the heart; hypoplasia of the right pulmonary artery; and anomalous subdiaphragmatic systemic arterial supply to the lower lobe of the right

All of the pulmonary veins connect anomalously with the right atrium or to one or more of its venous tributaries. None of the pulmonary veins connect normally to the left atrium. In Type 2 (cardiac) TAPVC, the anomalous connection is to the heart, either to the right atrium directly or to the coronary sinus. Most patients with type 2 TAPVC are nonobstructed.

All of the pulmonary veins connect anomalously with the right atrium or to one or more of its venous tributaries. None of the pulmonary veins connect normally to the left atrium. In Type 3 (infracardiac) TAPVC, the anomalous connection is at the infracardiac level (below the diaphragm), with the pulmonary venous return entering the right atrium ultimately via the inferior vena cava. In the vast majority of patients infracardiac TAPVC is obstructed.

All of the pulmonary veins connect anomalously with the right atrium or to one or more of its venous tributaries. None of the pulmonary veins connect normally to the left atrium. In Type 4 (mixed) TAPVC, the anomalous connection is at two or more of the above levels (supracardiac, cardiac, infracardiac) and can be obstructed or nonobstructed.

Cor triatriatum In the classic form of cor triatriatum a membrane

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			divides the left atrium (LA) into a posterior accessory chamber that receives the pulmonary veins and an anterior chamber (LA) that communicates with the mitral valve. In differentiating cor triatriatum from supravalvar mitral ring, in cor triatriatum the posterior compartment contains the pulmonary veins while the anterior contains the left atrial appendage and the mitral valve orifice; in supravalvar mitral ring, the anterior compartment contains only the mitral valve orifice. Cor triatriatum dexter (prominent venous valve producing obstruction of the IVC and tricuspid valve) is to be coded as a systemic venous obstruction, not as a form of cor triatriatum.
2	260	Pulmonary venous stenosis	Any pathologic narrowing of one or more pulmonary veins. Can be further subdivided by etiology (congenital, acquired-postoperative, acquired- nonpostoperative) and extent of stenosis (diffusely hypoplastic, long segment focal/tubular stenosis, discrete stenosis).
2	270	Systemic venous anomaly	Anomalies of the systemic venous system (superior vena cava (SVC), inferior vena cava (IVC), brachiocephalic veins (often the innominate vein), azygos vein, coronary sinus, levo-atrial cardinal vein) arising from one or more anomalies of origin, duplication, course, or connection. Examples include abnormal or absent right SVC with LSVC, bilateral SVC, interrupted right or left IVC, azygos continuation of IVC, and anomalies of hepatic drainage. Bilateral SVC may have, among other configurations: 1) RSVC draining to the RA and the LSVC to the LA with completely unroofed coronary sinus, 2) RSVC draining to the RA and LSVC to the coronary sinus which drains (normally) into the RA, or 3) RSVC to the coronary sinus which drains (abnormally) into the LA and LSVC to LA. Anomalies of the inferior vena caval system include, among others: 1) left IVC to LA, 2) biatrial drainage, or 3) interrupted IVC (left or right) with azygos continuation to an LSVC or RSVC.
2	280	Systemic venous obstruction	Obstruction of the systemic venous system (superior vena cava (SVC), inferior vena cava (IVC), brachiocephalic veins (often the innominate vein), azygos vein, coronary sinus, levo-atrial cardinal vein) arising from congenital or acquired stenosis or occlusion. Cor triatriatum dexter (prominent venous valve producing obstruction of the IVC and tricuspid valve) is to be coded as a systemic venous obstruction, not as a form of cor triatriatum.
2	290	TOF	Indicate if the patient has the diagnosis of "TOF". Only use this diagnosis if it is NOT known if the patient has one of the following four more specific diagnoses: (1). "TOF, Pulmonary stenosis", (2). "TOF, AVC (AVSD)", (3). "TOF, Absent pulmonary valve", (4).

"Pulmonary atresia, VSD (Including TOF, PA)", or (5). "Pulmonary atresia, VSD-MAPCA (pseudotruncus)". {"TOF" is "Tetralogy of Fallot" and is defined as a group of malformations with biventricular atrioventricular alignments or connections characterized by anterosuperior deviation of the conal or outlet septum or its fibrous remnant, narrowing or atresia of the pulmonary outflow, a ventricular septal defect of the malalignment type, and biventricular origin of the aorta. Hearts with tetralogy of Fallot will always have a ventricular septal defect, narrowing or atresia of the pulmonary outflow, and aortic override; hearts with tetralogy of Fallot will most often have right ventricular hypertrophy.} (An additional, often muscular [Type 4] VSD may be seen with TOF and should be coded separately as a secondary diagnosis as "VSD, Type 4 (Muscular)". Pulmonary arteries may be diminutive or there may be an absent left or right pulmonary artery; additional coding for pulmonary artery and/or branch pulmonary artery stenoses may be found under RVOT obstruction. Abnormal coronary artery distribution may also be associated with tetralogy of Fallot and may be coded separately under coronary artery anomalies. The presence of associated anomalies such as additional VSD, atrial septal defect, right aortic arch, left superior vena cava, and coronary artery anomalies must be subspecified as an additional or secondary diagnosis under the primary TOF diagnosis. TOF with absent pulmonary valve or TOF with associated complete atrioventricular canal are NOT to be secondary diagnoses under TOF - they are separate entities and should be coded as such. Controversy surrounds the differentiation between TOF and double outlet right ventricle [DORV]; in the nomenclature used here, DORV is defined as a type of ventriculoarterial connection in which both great vessels arise predominantly from the right ventricle. TOF with pulmonary atresia is to be coded under "Pulmonary atresia-VSD.") Indicate if the patient has the diagnosis of "TOF,

Indicate if the patient has the diagnosis of ⁴⁵TOF, Pulmonary stenosis". Use this diagnosis if the patient has tetralogy of Fallot and pulmonary stenosis. Do not use this diagnosis if the patient has tetralogy of Fallot and pulmonary atresia. Do not use this diagnosis if the patient has tetralogy of Fallot and absent pulmonary valve. Do not use this diagnosis if the patient has tetralogy of Fallot and atrioventricular canal. {Tetralogy of Fallot is defined as a group of malformations with biventricular atrioventricular alignments or connections characterized by anterosuperior deviation of the conal or outlet septum or its fibrous remnant, narrowing or atresia of the pulmonary outflow, a ventricular septal defect of the

2140 TOF, Pulmonary stenosis

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		malalignment type, and biventricular origin of the aorta. Hearts with tetralogy of Fallot will always have a ventricular septal defect, narrowing or atresia of the pulmonary outflow, and aortic override; hearts with tetralogy of Fallot will most often have right ventricular hypertrophy. (An additional, often muscular [Type 4] VSD may be seen with TOF and should be coded separately as a secondary diagnosis as "VSD, Type 4 (Muscular)". Pulmonary arteries may be diminutive or there may be an absent left or right pulmonary artery; additional coding for pulmonary artery and/or branch pulmonary artery stenoses may be found under RVOT obstruction. Abnormal coronary artery distribution may also be associated with tetralogy of Fallot and may be coded separately under coronary artery anomalies. The presence of associated anomalies such as additional VSD, atrial septal defect, right aortic arch, left superior vena cava, and coronary artery anomalies must be subspecified as an additional or secondary diagnosis under the primary TOF diagnosis. TOF with absent pulmonary valve or TOF with associated complete atrioventricular canal are NOT to be secondary diagnoses under TOF - they are separate entities and should be coded as such. Controversy surrounds the differentiation between TOF and double outlet right ventricle [DORV]; in the nomenclature used here, DORV is defined as a type of ventriculoarterial connection in which both great vessels arise predominantly from the right ventricle. TOF with pulmonary atresia is to be coded under "Pulmonary atresia-VSD.")}
300	TOF, AVC (AVSD)	TOF with complete common atrioventricular canal defect is a rare variant of common atrioventricular canal defect with the associated conotruncal abnormality of TOF. The anatomy of the endocardial cushion defect is that of Rastelli type C in almost all cases.
310	TOF, Absent pulmonary valve	Indicate if the patient has the diagnosis of "TOF, Absent pulmonary valve". "TOF, Absent pulmonary valve" is "Tetralogy of Fallot with Absent pulmonary valve" and is defined as a malformation with all of the morphologic characteristics of tetralogy of Fallot (anterosuperior deviation of the conal or outlet septum or its fibrous remnant, narrowing of the pulmonary outflow, a ventricular septal defect of the malalignment type, and biventricular origin of the aorta), in which the ventriculo-arterial junction of the right ventricle with the main pulmonary artery features an atypical valve with rudimentary cusps that lack the anatomical semi- lunar features of normal valve cusps and which functionally do not achieve central coaptation. The physiologic consequence is usually a combination of variable degrees of both stenosis and regurgitation of the pulmonary valve. A developmental accompaniment

		of this anatomy and physiology is dilation of the main pulmonary artery and central right and left pulmonary arteries, which when extreme, is associated with abnormal arborization of lobar and segmental pulmonary artery branches and with compression of the trachea and mainstem bronchi. One theory holds that absence of the arterial duct or ductal ligament (which is a nearly constant finding in cases of tetralogy of Fallot with absent pulmonary valve) in combination with pulmonary `valve stenosis and regurgitation, comprise the physiologic conditions which predispose to central pulmonary artery dilation during fetal development. (Tetralogy of Fallot with Absent Pulmonary Valve Syndrome is a term frequently used to describe the clinical presentation when it features both circulatory alterations and respiratory distress secondary to airway compression.)
320	Pulmonary atresia	Pulmonary atresia defects which do not readily fall into pulmonary atresia-intact ventricular septum or pulmonary atresia-VSD (with or without MAPCAs) categories. These may include complex lesions in which pulmonary atresia is a secondary diagnosis, for example, complex single ventricle malformations with associated pulmonary atresia.
330	Pulmonary atresia, IVS	Pulmonary atresia (PA) and intact ventricular septum (IVS) is a duct-dependent congenital malformation that forms a spectrum of lesions including atresia of the pulmonary valve, a varying degree of right ventricle and tricuspid valve hypoplasia, and anomalies of the coronary circulation. An RV dependent coronary artery circulation is present when coronary artery fistulas (coronary sinusoids) are associated with a proximal coronary artery stenosis. Associated Ebstein's anomaly of the tricuspid valve can be present; the tricuspid diameter is enlarged and the prognosis is poor.
340	Pulmonary atresia, VSD (Including TOF, PA)	Pulmonary atresia (PA) and ventricular septal defect (VSD) is a heterogeneous group of congenital cardiac malformations in which there is lack of luminal continuity and absence of blood flow from either ventricle (in cases with ventriculo-arterial discordance) and the pulmonary artery, in a biventricular heart that has an opening or a hole in the interventricular septum (VSD). The malformation forms a spectrum of lesions including tetralogy of Fallot with pulmonary atresia. Tetralogy of Fallot with PA is a specific type of PA- VSD where the intracardiac malformation is more accurately defined (extreme underdevelopment of the RV infundibulum with marked anterior and leftward displacement of the infundibular septum often fused with the anterior wall of the RV resulting in complete obstruction of blood flow into the pulmonary artery and associated with a large outlet, subaortic ventricular septal defect). In the vast majority of cases of PA-VSD

the intracardiac anatomy is that of TOF. The pulmonary circulation in PA-VSD is variable in terms of origin of blood flow, presence or absence of native pulmonary arteries, presence or absence of major aortopulmonary collateral arteries (MAPCA(s)), and distal distribution (pulmonary parenchymal segment arborization) abnormalities. Native pulmonary arteries may be present or absent. If MAPCAs are present this code should not be used; instead, Pulmonary atresia, VSD-MAPCA (pseudotruncus) should be used. 350 Pulmonary atresia, VSD-MAPCA(s) are large and distinct arteries, highly variable in number, that usually arise from the descending thoracic aorta, but uncommonly may originate from the aortic arch or the subclavian, carotid or even the coronary arteries. MAPCA(s) may be associated with present or absent native pulmonary arteries. If present, the native pulmonary arteries may be hypoplastic, and either confluent or nonconfluent. Systemic pulmonary collateral arteries have been categorized into 3 types based on their site of origin and the way they connect to the pulmonary circulation: direct aortopulmonary collaterals, indirect aortopulmonary collaterals, and true bronchial arteries.

this code should be used.

360 MAPCA(s) (major aortopulmonary collateral[s]) (without PA-VSD)

370 Ebstein's anomaly

MAPCA

Rarely MAPCA(s) may occur in patents who do not have PA-VSD, but have severe pulmonary stenosis. The intracardiac anatomy in patients who have MAPCA(s) without PA should be specifically coded in each case as well.

Only the first two should be considered MAPCA(s). If MAPCA(s) are associated with PA-VSD or TOF, PA

Indicate if the patient has the diagnosis of "Ebstein's anomaly". Ebstein's anomaly is a malformation of the tricuspid valve and right ventricle that is characterized by a spectrum of several features: (1) incomplete delamination of tricuspid valve leaflets from the myocardium of the right ventricle; (2) downward (apical) displacement of the functional annulus; (3) dilation of the "atrialized" portion of the right ventricle with variable degrees of hypertrophy and thinning of the wall; (4) redundancy, fenestrations, and tethering of the anterior leaflets; and (5) dilation of the right atrioventricular junction (the true tricuspid annulus). These anatomical and functional abnormalities cause tricuspid regurgitation (and rarely tricuspid stenosis) that results in right atrial and right ventricular dilation and atrial and ventricular arrhythmias. With increasing degrees of anatomic severity of malformation, the fibrous transformation of leaflets from their muscular precursors remains incomplete, with the septal leaflet being most severely involved, the posterior leaflet less severely involved, and the anterior leaflet usually the least severely involved. Associated cardiac anomalies

include an interatrial communication, the presence of accessory conduction pathways often associated with Wolff-Parkinson-White syndrome, and dilation of the right atrium and right ventricle in patients with severe Ebstein's anomaly. (Varying degrees of right ventricular outflow tract obstruction may be present, including pulmonary atresia in some cases. Such cases of Ebstein's anomaly with pulmonary atresia should be coded with a Primary Diagnosis of "Ebstein's anomaly", and a Secondary Diagnosis of "Pulmonary atresia".) (Some patients with atrioventricular discordance and ventriculoarterial discordance in situs solitus [congenitally corrected transposition] have an Ebstein-like deformity of the left-sided morphologically tricuspid valve. The nature of the displacement of the septal and posterior leaflets is similar to that in rightsided Ebstein's anomaly in patients with atrioventricular concordance and ventriculoarterial concordance in situs solitus. These patients with "Congenitally corrected TGA" and an Ebstein-like deformity of the left-sided morphologically tricuspid valve should be coded with a Primary Diagnosis of "Congenitally corrected TGA", and a Secondary Diagnosis of "Ebstein's anomaly".) 380 Tricuspid regurgitation, non-Non-Ebstein's tricuspid regurgitation may be due to Ebstein's related congenital factors (primary annular dilation, prolapse, leaflet underdevelopment, absent papillary muscle/chordae) or acquired (post cardiac surgery or secondary to rheumatic fever, endocarditis, trauma, tumor, cardiomyopathy, iatrogenic or other causes). 390 Tricuspid stenosis Tricuspid stenosis may be due to congenital factors (valvar hypoplasia, abnormal subvalvar apparatus, double-orifice valve, parachute deformity) or acquired (post cardiac surgery or secondary to carcinoid, rheumatic fever, tumor, systemic disease, iatrogenic, or other causes). 400 Tricuspid regurgitation and Tricuspid regurgitation present with tricuspid stenosis tricuspid stenosis may be due to congenital factors or acquired. 410 Tricuspid valve pathology not otherwise specified in Tricuspid valve, Other diagnosis definitions 370, 380, 390 and 400. 420 Pulmonary stenosis, Valvar Pulmonary stenosis, Valvar ranges from critical neonatal pulmonic valve stenosis with hypoplasia of the right ventricle to valvar pulmonary stenosis in the infant, child, or adult, usually better tolerated but potentially associated with infundibular stenosis. Pulmonary branch hypoplasia can be associated. Only 10% of neonates with Pulmonary stenosis. Valvar with intact ventricular septum have RV-to-coronary artery fistula(s). An RV dependent coronary artery circulation is present when coronary artery fistulas (coronary sinusoids) are associated with a proximal coronary artery stenosis; this occurs in only 2% of neonates with

Pulmonary stenosis, Valvar with IVS.

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430	Pulmonary artery stenosis (hypoplasia), Main (trunk)	Indicate if the patient has the diagnosis of "Pulmonary artery stenosis (hypoplasia), Main (trunk)". "Pulmonary artery stenosis (hypoplasia), Main (trunk)" is defined as a congenital or acquired anomaly with pulmonary trunk (main pulmonary artery) narrowing or hypoplasia. The stenosis or hypoplasia may be isolated or associated with other cardiac lesions. Since the narrowing is distal to the pulmonic valve, it may also be known as supravalvar pulmonary stenosis.
440	Pulmonary artery stenosis, Branch, Central (within the hilar bifurcation)	Indicate if the patient has the diagnosis of "Pulmonary artery stenosis, Branch, Central (within the hilar bifurcation)". "Pulmonary artery stenosis, Branch, Central (within the hilar bifurcation)" is defined as a congenital or acquired anomaly with central pulmonary artery branch (within the hilar bifurcation involving the right or left pulmonary artery, or both) narrowing or hypoplasia. The stenosis or hypoplasia may be isolated or associated with other cardiac lesions. Coarctation of the pulmonary artery is related to abnormal extension of the ductus arteriosus into a pulmonary branch, more frequently the left branch.
450	Pulmonary artery stenosis, Branch, Peripheral (at or beyond the hilar bifurcation)	Indicate if the patient has the diagnosis of "Pulmonary artery stenosis, Branch, Peripheral (at or beyond the hilar bifurcation)". "Pulmonary artery stenosis, Branch, Peripheral (at or beyond the hilar bifurcation)" is defined as a congenital or acquired anomaly with peripheral pulmonary artery narrowing or hypoplasia (at or beyond the hilar bifurcation). The stenosis or hypoplasia may be isolated or associated with other cardiac lesions.
470	Pulmonary artery, Discontinuous	Indicate if the patient has the diagnosis of "Pulmonary artery, Discontinuous". Pulmonary artery, Discontinuous" is defined as a congenital or acquired anomaly with discontinuity between the branch pulmonary arteries or between a branch pulmonary artery and the main pulmonary artery trunk.
490	Pulmonary stenosis, Subvalvar	Subvalvar (infundibular) pulmonary stenosis is a narrowing of the outflow tract of the right ventricle below the pulmonic valve. It may be due to a localized fibrous diaphragm just below the valve, an obstructing muscle bundle or to a long narrow fibromuscular channel.
500	DCRV	The double chambered right ventricle is characterized by a low infundibular (subvalvar) stenosis rather than the rare isolated infundibular stenosis that develops more superiorly in the infundibulum, and is often associated with one or several closing VSDs. In some cases, the VSD is already closed. The stenosis creates two chambers in the RV, one inferior including the inlet and trabecular portions of the RV and one superior including the infundibulum.

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510	Pulmonary valve, Other	Other anomalies of the pulmonary valve may be listed here including but not restricted to absent pulmonary valve.
530	Pulmonary insufficiency	Pulmonary valve insufficiency or regurgitation may be due to congenital factors (primary annular dilation, prolapse, leaflet underdevelopment, etc.) or acquired (for example, post cardiac surgery for repair of tetralogy of Fallot, etc.).
540	Pulmonary insufficiency and pulmonary stenosis	Pulmonary valve insufficiency and pulmonary stenosis beyond the neonatal period, in infancy and childhood, may be secondary to leaflet tissue that has become thickened and myxomatous. Retraction of the commissure attachment frequently creates an associated supravalvar stenosis.
2130	Shunt failure	Indicate if the patient has the diagnosis of "Shunt failure". This diagnostic subgroup includes failure of any of a variety of shunts ("Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)", "Shunt, Systemic to pulmonary, Central (from aorta or to main pulmonary artery)", "Shunt, Systemic to pulmonary, Other", and "Sano Shunt"), secondary to any of the following etiologies: shunt thrombosis, shunt occlusion, shunt stenosis, shunt obstruction, and shunt outgrowth. This diagnosis ("Shunt failure") would be the primary diagnosis in a patient with, for example, "Hypoplastic left heart syndrome (HLHS)" who underwent a "Norwood procedure" with a "Modified Blalock-Taussig Shunt" and now requires reoperation for thrombosis of the "Modified Blalock-Taussig Shunt". The underlying or fundamental diagnosis in this patient is "Hypoplastic left heart syndrome (HLHS)", but the primary diagnosis for the operation to be performed to treat the thrombosis of the "Modified Blalock-Taussig Shunt" would be "Shunt failure".
		Please note that the choice "2130 Shunt failure" does not include "520 Conduit failure".
520	Conduit failure	Indicate if the patient has the diagnosis of "Conduit failure". This diagnostic subgroup includes failure of any of a variety of conduits (ventricular [right or left]-to- PA conduits, as well as a variety of other types of conduits [ventricular {right or left}-to-aorta, RA-to-RV, etc.]), secondary to any of the following etiologies: conduit outgrowth, obstruction, stenosis, insufficiency, or insufficiency and stenosis. This diagnosis ("Conduit failure") would be the primary diagnosis in a patient with, for example, "Truncus arteriosus" repaired in infancy who years later is hospitalized because of conduit stenosis/insufficiency. The underlying or fundamental diagnosis in this patient is "Truncus arteriosus", but the primary diagnosis for the operation to be performed during the hospitalization (in this case,

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		"Conduit reoperation") would be "Conduit failure".
		Please note that the choice "520 Conduit failure" does not include "2130 Shunt failure".
550	Aortic stenosis, Subvalvar	Subaortic obstruction can be caused by different lesions: subaortic membrane or tunnel, accessory mitral valve tissue, abnormal insertion of the mitral anterior leaflet to the ventricular septum, deviation of the outlet septum (seen in coarctation of the aorta and interrupted aortic arch), or a restrictive bulboventricular foramen in single ventricle complexes. The Shone complex consists of subvalvar aortic stenosis in association with supravalvar mitral ring, parachute mitral valve, and coarctation of aorta. Subvalvar aortic stenosis may be categorized into two types: localized subvalvar aortic stenosis, which consists of a fibrous or fibromuscular ridge, and diffuse tunnel subvalvar aortic stenosis, in which circumferential narrowing commences at the annular level and extends downward for 1-3 cm. Idiopathic hypertrophic subaortic stenosis (IHSS) is also known as hypertrophic obstructive cardiomyopathy (HOCM), and is characterized by a primary hypertrophy of the myocardium. The obstructive forms involve different degrees of dynamic subvalvar aortic obstruction from a thickened ventricular wall and anterior motion of the mitral valve. Definitive nomenclature and therapeutic options for IHSS are listed under cardiomyopathy.
560	Aortic stenosis, Valvar	 Valvar aortic stenosis may be congenital or acquired. In its congenital form there are two types: critical (infantile), seen in the newborn in whom systemic perfusion depends on a patent ductus arteriosus, and noncritical, seen in infancy or later. Acquired valvar stenosis may be seen after as a result of rheumatic valvar disease, or from stenotic changes of an aortic valve prosthesis. Congenital valvar stenosis may result: (1) from complete fusion of commissures (acommissural) that results in a dome-shaped valve with a pinpoint opening (seen most commonly in infants with critical aortic valve stenosis); (2) from a unicommissural valve with one defined commissure and eccentric orifice (often with two raphes radiating from the ostium indicating underdeveloped commissures of a tricuspid aortic valve); (3) from a bicuspid aortic valve, with leaflets that can be equal in size or discrepant, and in left-right or anterior-posterior position; and finally (4) from a dysplastic tricuspid valve, which may have a gelatinous appearance with thick rarely equal in size leaflets, often obscuring the commissures. The dysplastic, tricuspid or bicuspid form of aortic valve

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570	Aortic stenosis, Supravalvar	Congenital supravalvar aortic stenosis is described as three forms: an hourglass deformity, a fibrous membrane, and a diffuse narrowing of the ascending aorta. The disease can be inherited as an autosomal dominant trait or part of Williams-Beuren syndrome in association with mental retardation, elfin facies, failure to thrive, and occasionally infantile hypercalcemia. Supravalvar aortic stenosis may involve the coronary artery ostia, and the aortic leaflets may be tethered. The coronary arteries can become tortuous and dilated due to elevated pressures and early atherosclerosis may ensue. Supravalvar aortic stenosis may also be acquired: (1) after a neoaortic reconstruction such as arterial switch, Ross operation, or Norwood procedure; (2) at a suture line from a previous aortotomy or cannulation; and (3) from a narrowed conduit.
590	Aortic valve atresia	Aortic valve atresia will most often be coded under the Hypoplastic left heart syndrome/complex diagnostic codes since it most often occurs as part of a spectrum of cardiac malformations. However, there is a small subset of patients with aortic valve atresia who have a well-developed left ventricle and mitral valve and a large VSD (nonrestrictive or restrictive). The diagnostic code "Aortic valve atresia" enables users to report those patients with aortic valve atresia and a well- developed systemic ventricle without recourse to either a hypoplastic left heart syndrome/complex diagnosis or a single ventricle diagnosis.
600	Aortic insufficiency	Congenital aortic regurgitation/insufficiency is rare as an isolated entity. There are rare reports of congenital malformation of the aortic valve that result in aortic insufficiency shortly after birth from an absent or underdeveloped aortic valve cusp. Aortic insufficiency is more commonly seen with other associated cardiac anomalies: (1) in stenotic aortic valves (commonly stenotic congenital bicuspid aortic valves) with some degree of aortic regurgitation due to aortic leaflet abnormality; (2) in association with a VSD (especially in supracristal or conal type I VSD, more commonly seen in Asian populations); (3) secondary to aortic-left ventricular tunnel; (4) secondary to tethering or retraction of aortic valve leaflets in cases of supravalvar aortic stenosis that may involve the aortic valve; and similarly (5) secondary to encroachment on an aortic cusp by a subaortic membrane; or (6) turbulence caused by a stenotic jet can create progressive aortic regurgitation. Aortic insufficiency may also result from: (1) post-procedure such as closed or open valvotomy or aortic valve repair, VSD closure, balloon valvotomy, or diagnostic catheterization; (2) in the neo- aorta post arterial switch, pulmonary autograft (Ross) procedure, homograft placement, Norwood procedure, or Damus-Kaye-Stansel procedure; (3) as a result of

		endocarditis secondary to perforated or prolapsed leaflets or annular dehiscence; (4) secondary to annulo- aortic ectasia with prolapsed or noncoapting leaflets; (5) secondary to trauma, blunt or penetrating; or (6) as a result of aortitis, bacterial, viral or autoimmune. Aortic regurgitation secondary to prosthetic failure should be coded first as either conduit failure or prosthetic valve failure, as applicable, and secondarily as aortic regurgitation secondary to prosthetic failure (perivalvar or due to structural failure). The underlying fundamental diagnosis that led to the initial conduit or valve prosthesis placement should also be described.
610	Aortic insufficiency and aortic stenosis	Aortic insufficiency is often seen in association with stenotic aortic valve, commonly the stenotic congenital bicuspid aortic valve. The degree of aortic regurgitation is due to the severity of the aortic leaflet abnormality.
620	Aortic valve, Other	This diagnostic subgroup may be used to delineate aortic valve cusp number (unicuspid, bicuspid, tricuspid, more than three cusps), commissural fusion (normal, partially fused, completely fused), and valve leaflet (normal, thickened, dysplastic, calcified, gelatinous), annulus (normal, hypoplastic, calcified), or sinus description (normal, dilated). Note that any extensive descriptors chosen within those made available by a vendor will be converted, at harvest, to Aortic valve, Other.
630	Sinus of Valsalva aneurysm	The sinus of Valsalva is defined as that portion of the aortic root between the aortic root annulus and the sinotubular ridge. A congenital sinus of Valsalva aneurysm is a dilation usually of a single sinus of Valsalva. These most commonly originate from the right sinus (65%-85%), less commonly from the noncoronary sinus (10%-30%), and rarely from the left sinus (<5%). A true sinus of Valsalva aneurysm presents above the aortic annulus. The hierarchical coding system distinguishes between congenital versus acquired, ruptured versus nonruptured, sinus of origin, and chamber/site of penetration (right atrium, right ventricle, left atrium, left ventricle, pulmonary artery, pericardium). A nonruptured congenital sinus of Valsalva aneurysm may vary from a mild dilation of a single aortic sinus to an extensive windsock deformity. Rupture of a congenital sinus of Valsalva aneurysm into an adjacent chamber occurs most commonly between the ages of 15-30 years. Rupture may occur spontaneously, after trauma, after strenuous physical exertion, or from acute bacterial endocarditis. Congenital etiology is supported by the frequent association of sinus of Valsalva aneurysms with VSDs. Other disease processes are also associated with sinus of Valsalva aneurysm and include: syphilis, endocarditis, cystic medial necrosis, atherosclerosis, and trauma. Acquired sinus of Valsalva aneurysms more frequently

640 LV to aorta tunnel

650 Mitral stenosis, Supravalvar

mitral ring

660 Mitral stenosis, Valvar

involve multiple sinuses of Valsalva; when present in multiple form they are more appropriately classified as aneurysms of the aortic root.

The aortico-left ventricular tunnel (LV-to-aorta tunnel) is an abnormal paravalvular (alongside or in the vicinity of a valve) communication between the aorta and left ventricle, commonly divided into 4 types: (1) type I, a simple tunnel with a slit-like opening at the aortic end and no aortic valve distortion; (2) type II, a large extracardiac aortic wall aneurysm of the tunnel with an oval opening at the aortic end, with or without ventricular distortion; (3) type III, intracardiac aneurysm of the septal portion of the tunnel, with or without right ventricular outflow obstruction; and (4) type IV, a combination of types II and III. Further differentiation within these types may be notation of right coronary artery arising from the wall of the tunnel. If a LV-to-aorta tunnel communicates with the right ventricle, many feel that the defect is really a ruptured sinus of Valsalva aneurysm.

Supravalvar mitral ring is formed by a circumferential ridge of tissue that is attached to the anterior mitral valve leaflet (also known as the aortic leaflet) slightly below its insertion on the annulus and to the atrium slightly above the attachment of the posterior mitral valve leaflet (also known as the mural leaflet). Depending on the diameter of the ring orifice, varying degrees of obstruction exist. The underlying valve is usually abnormal and frequently stenotic or hypoplastic. Supravalvar mitral ring is commonly associated with other stenotic lesions such as parachute or hammock valve (subvalvar stenosis), papillary muscle fusion (subvalvar stenosis), and double orifice mitral valve (valvar stenosis). Differentiation from cor triatriatum focuses on the compartments created by the supravalvar ring. In cor triatriatum the posterior compartment contains the pulmonary veins; the anterior contains the left atrial appendage and the mitral valve orifice. In supravalvar mitral ring, the posterior compartment contains the pulmonary veins and the left atrial appendage; the anterior compartment contains only the mitral valve orifice. When coding multiple mitral valvar lesions the predominant defect causing the functional effect (regurgitation, stenosis, or regurgitation and stenosis) should be listed as the primary defect.

Valvar mitral stenosis may arise from congenital (annular and / or leaflet) or acquired causes, both surgical (after mitral valve repair or replacement or other cardiac surgery) and non-surgical (post rheumatic heart disease, infective endocarditis, ischemia, myxomatous degeneration, trauma, or cardiomyopathy). Mitral valve annular hypoplasia is distinguished from

		severe mitral valve hypoplasia and mitral valve atresia, which are typically components of hypoplastic left heart syndrome. When coding multiple mitral valvar lesions the predominant defect causing the functional effect (regurgitation, stenosis, or regurgitation and stenosis) should be listed as the primary defect.
670	Mitral stenosis, Subvalvar	Congenital subvalvar mitral stenosis may be due to obstructive pathology of either the chordae tendineae and / or papillary muscles which support the valve leaflets. When coding multiple mitral valvar lesions the predominant defect causing the functional effect (regurgitation, stenosis, or regurgitation and stenosis) should be listed as the primary defect.
680	Mitral stenosis, Subvalvar, Parachute	In parachute mitral valve, all chordae are attached to a single papillary muscle originating from the posterior ventricular wall. When the interchordal spaces are partially obliterated valvar stenosis results. This defect also causes valvar insufficiency, most commonly due to a cleft leaflet, a poorly developed anterior leaflet, short chordae, or annular dilation. This lesion is also part of Shone's anomaly, which consists of the parachute mitral valve, supravalvar mitral ring, subaortic stenosis, and coarctation of the aorta. When coding multiple mitral valvar lesions the predominant defect causing the functional effect (regurgitation, stenosis, or regurgitation and stenosis) should be listed as the primary defect.
695	Mitral stenosis	Stenotic lesions of the mitral valve not otherwise specified in the diagnosis definitions 650, 660, 670, and 680.
700	Mitral regurgitation and mitral stenosis	Mitral regurgitation and mitral stenosis may arise from congenital or acquired causes or after cardiac surgery. Additional details to aid in coding specific components of the diagnosis are available in the individual mitral stenosis or mitral regurgitation field definitions. When coding multiple mitral valve lesions the predominant defect causing the functional effect (regurgitation, stenosis, or regurgitation and stenosis) should be listed as the primary defect.
710	Mitral regurgitation	Mitral regurgitation may arise from congenital (at the annular, leaflet or subvalvar level) or acquired causes both surgical (after mitral valve repair or replacement, subaortic stenosis repair, atrioventricular canal repair, cardiac transplantation, or other cardiac surgery) and non-surgical (post rheumatic heart disease, infective endocarditis, ischemia (with chordal rupture or papillary muscle infarct), myxomatous degeneration including Barlow's syndrome, trauma, or cardiomyopathy). Congenital lesions at the annular level include annular dilation or deformation (usually deformation is consequent to associated lesions). At the valve leaflet level, mitral regurgitation may be due to a cleft,

		hypoplasia or agenesis of leaflet(s), excessive leaflet tissue, or a double orifice valve. At the subvalvar level, mitral regurgitation may be secondary to chordae tendineae anomalies (agenesis, rupture, elongation, or shortening as in funnel valve), or to papillary muscle anomalies (hypoplasia or agenesis, shortening, elongation, single-parachute, or multiple-hammock valve). When coding multiple mitral valvar lesions the predominant defect causing the functional effect (regurgitation, stenosis, or regurgitation and stenosis) should be listed as the primary defect.
720	Mitral valve, Other	Mitral valve pathology not otherwise coded in diagnosis definitions 650 through 710.
730	Hypoplastic left heart syndrome (HLHS)	Hypoplastic left heart syndrome (HLHS) is a spectrum of cardiac malformations characterized by a severe underdevelopment of the left heart-aorta complex, consisting of aortic and/or mitral valve atresia, stenosis, or hypoplasia with marked hypoplasia or absence of the left ventricle, and hypoplasia of the ascending aorta and of the aortic arch with coarctation of the aorta. Hypoplastic left heart complex is a subset of patients at the favorable end of the spectrum of HLHS characterized by hypoplasia of the structures of the left heart-aorta complex, consisting of aortic and mitral valve hypoplasia without valve stenosis or atresia, hypoplasia of the left ventricle, hypoplasia of the left ventricular outflow tract, hypoplasia of the ascending aorta and of the aortic arch, with or without coarctation of the aorta.
2080	Shone's syndrome	Shone's syndrome is a syndrome of multilevel hypoplasia and obstruction of left sided cardiovascular structures including more than one of the following lesions: (1) supravalvar ring of the left atrium, (2) a parachute deformity of the mitral valve, (3) subaortic stenosis, and (4) aortic coarctation. The syndrome is based on the original report from Shone [1] that was based on analysis of 8 autopsied cases and described the tendency of these four obstructive, or potentially obstructive, conditions to coexist. Only 2 of the 8 cases exhibited all four conditions, with the other cases exhibiting only two or three of the anomalies [2]. [1] Shone JD, Sellers RD, Anderson RG, Adams P, Lillehei CW, Edwards JE. The developmental complex of "parachute mitral valve", supravalvar ring of left atrium, subaortic stenosis, and coarctation of the aorta. Am J Cardiol 1963; 11: 714–725. [2]. Tchervenkov CI, Jacobs JP, Weinberg PM, Aiello VD, Beland MJ, Colan SD, Elliott MJ, Franklin RC, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G. The nomenclature, definition and classification of hypoplastic left heart syndrome. Cardiology in the Young, 2006; 16(4): 339–368, August 2006.

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		Please note that the term "2080 Shone's syndrome" may be the "Fundamental Diagnosis" of a patient; however, the term "2080 Shone's syndrome" may not be the "Primary Diagnosis" of an operation. The term "2080 Shone's syndrome" may be a "Secondary Diagnosis" of an operation.
740	Cardiomyopathy (including dilated, restrictive, and hypertrophic)	Cardiomyopathy is a term applied to a wide spectrum of cardiac diseases in which the predominant feature is poor myocardial function in the absence of any anatomic abnormalities. Cardiomyopathies can be divided into three relatively easily distinguishable entities: (1) dilated, characterized by ventricular dilation and systolic dysfunction; (2) hypertrophic, characterized by physiologically inappropriate hypertrophy of the left ventricle; and (3) restrictive, characterized by diastolic dysfunction, with a presentation often identical to constrictive pericarditis. Also included in this diagnostic category are patients with a cardiomyopathy or syndrome confined to the right ventricle, for example: (1) arrhythmogenic right ventricular dysplasia; (2) Uhl's syndrome (hypoplasia of right ventricular myocardium, parchment heart); or (3)
750	Cardiomyopathy, End-stage congenital heart disease	Myocardial abnormality in which there is systolic and/or diastolic dysfunction in the presence of structural congenital heart disease without any (or any further) surgically correctable lesions.
760	Pericardial effusion	Inflammatory stimulation of the pericardium that results in the accumulation of appreciable amounts of pericardial fluid (also known as effusive pericarditis). The effusion may be idiopathic or acquired (e.g., postoperative, infectious, uremic, neoplastic, traumatic, drug-induced).
770	Pericarditis	Inflammatory process of the pericardium that leads to either (1) effusive pericarditis with accumulation of appreciable amounts of pericardial fluid or (2) constrictive pericarditis that leads to pericardial thickening and compression of the cardiac chambers, ultimately with an associated significant reduction in cardiac function. Etiologies are varied and include idiopathic or acquired (e.g., postoperative, infectious, uremic, neoplastic, traumatic, drug-induced) pericarditis.
780	Pericardial disease, Other	A structural or functional abnormality of the visceral or parietal pericardium that may, or may not, have a significant impact on cardiac function. Included are absence or partial defects of the pericardium.
790	Single ventricle, DILV	A congenital cardiac malformation in which both atria connect to a single, morphologically left ventricle.
		The version of the IPCCC derived from the International Congenital Heart Surgery Nomenclature and Database Project of the EACTS and STS uses the

term "single ventricle" as synonymous for the "functionally univentricular heart".

The term "functionally univentricular heart" describes a spectrum of congenital cardiovascular malformations in which the ventricular mass may not readily lend itself to partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular heart include complex forms of atrioventricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart".

Reference: Jacobs JP, Franklin RCG, Jacobs ML, Colan SD, Tchervenkov CI, Maruszewski B, Gaynor JW, Spray TL, Stellin G, Aiello VD, Béland MJ, Krogmann ON, Kurosawa H, Weinberg PM, Elliott MJ, Mavroudis C, Anderson R. Classification of the Functionally Univentricular Heart: Unity from mapped codes. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges in the Management of the Functionally Univentricular Heart, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16, Supplement 1: 9 -21, February 2006.

A congenital cardiac malformation in which both atria connect to a single, morphologically right ventricle

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800

Single ventricle, DIRV

		feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular heart include complex forms of atrioventricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart".
		Reference: Jacobs JP, Franklin RCG, Jacobs ML, Colan SD, Tchervenkov CI, Maruszewski B, Gaynor JW, Spray TL, Stellin G, Aiello VD, Béland MJ, Krogmann ON, Kurosawa H, Weinberg PM, Elliott MJ, Mavroudis C, Anderson R. Classification of the Functionally Univentricular Heart: Unity from mapped codes. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges in the Management of the Functionally Univentricular Heart, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16, Supplement 1: 9 - 21, February 2006.
810	Single ventricle, Mitral atresia	A congenital cardiac malformation in which there is no orifice of mitral valve The version of the IPCCC derived from the
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		The term "functionally univentricular heart" describes a spectrum of congenital cardiovascular malformations in which the ventricular mass may not readily lend itself to partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular

septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart".

Reference: Jacobs JP, Franklin RCG, Jacobs ML, Colan SD, Tchervenkov CI, Maruszewski B, Gaynor JW, Spray TL, Stellin G, Aiello VD, Béland MJ, Krogmann ON, Kurosawa H, Weinberg PM, Elliott MJ, Mavroudis C, Anderson R. Classification of the Functionally Univentricular Heart: Unity from mapped codes. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges in the Management of the Functionally Univentricular Heart, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16, Supplement 1: 9 -21, February 2006.

820 Single ventricle, Tricuspid atresia

A congenital cardiac malformation in which there is no orifice of tricuspid valve.

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The term "functionally univentricular heart" describes a spectrum of congenital cardiovascular malformations in which the ventricular mass may not readily lend itself to partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular heart include complex forms of atrioventricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart".

Reference: Jacobs JP, Franklin RCG, Jacobs ML, Colan SD, Tchervenkov CI, Maruszewski B, Gaynor JW, Spray TL, Stellin G, Aiello VD, Béland MJ, Krogmann ON, Kurosawa H, Weinberg PM, Elliott MJ, Mavroudis C, Anderson R. Classification of the Functionally Univentricular Heart: Unity from mapped codes. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges in the Management of the Functionally Univentricular Heart, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16, Supplement 1: 9 -21, February 2006.

Single ventricle anomalies with a common

830 Single ventricle, Unbalanced AV canal

opens predominantly into the morphologic left ventricle, the defect is termed a left ventricular (LV)-type or LV-dominant AV septal defect. If the common AV valve opens predominantly into the morphologic right ventricle, the defect is termed a right ventricular (RV)-type or RV-dominant AV septal defect.

atrioventricular (AV) valve and only one completely well developed ventricle. If the common AV valve

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include patients with either the expected usual or normal arrangement of the internal organs along the left-

840 Single ventricle, Heterotaxia syndrome "Heterotaxia syndrome" is synonymous with "heterotaxy", "visceral heterotaxy", and "heterotaxy syndrome". Heterotaxy is defined as an abnormality where the internal thoraco-abdominal organs demonstrate abnormal arrangement across the left-right axis of the body. By convention, heterotaxy does not right axis, also known as 'situs solitus', nor patients with complete mirror-imaged arrangement of the internal organs along the left-right axis also known as 'situs inversus'.

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The term "functionally univentricular heart" describes a spectrum of congenital cardiovascular malformations in which the ventricular mass may not readily lend itself to partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular heart include complex forms of atrioventricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart".

Reference: Jacobs JP, Franklin RCG, Jacobs ML, Colan SD, Tchervenkov CI, Maruszewski B, Gaynor JW, Spray TL, Stellin G, Aiello VD, Béland MJ, Krogmann ON, Kurosawa H, Weinberg PM, Elliott MJ, Mavroudis C, Anderson R. Classification of the Functionally Univentricular Heart: Unity from mapped codes. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges in the Management of the Functionally Univentricular Heart, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16, Supplement 1: 9 -21, February 2006.

If the single ventricle is of primitive or indeterminate type, other is chosen in coding. It is recognized that a considerable variety of other structural cardiac malformations (e.g., biventricular hearts with straddling atrioventricular valves, pulmonary atresia with intact ventricular septum, some complex forms of double outlet right ventricle) may at times be best managed in a fashion similar to that which is used to treat

850 Single ventricle, Other

univentricular hearts. They are not to be coded in this section of the nomenclature, but according to the underlying lesions.

The version of the IPCCC derived from the International Congenital Heart Surgery Nomenclature and Database Project of the EACTS and STS uses the term "single ventricle" as synonymous for the "functionally univentricular heart".

The term "functionally univentricular heart" describes a spectrum of congenital cardiovascular malformations in which the ventricular mass may not readily lend itself to partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular heart include complex forms of atrioventricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart".

Reference: Jacobs JP, Franklin RCG, Jacobs ML, Colan SD, Tchervenkov CI, Maruszewski B, Gaynor JW, Spray TL, Stellin G, Aiello VD, Béland MJ, Krogmann ON, Kurosawa H, Weinberg PM, Elliott MJ, Mavroudis C, Anderson R. Classification of the Functionally Univentricular Heart: Unity from mapped codes. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges in the Management of the Functionally Univentricular Heart, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16, Supplement 1: 9 -21, February 2006.

Indicate if the patient has the diagnosis of "Single Ventricle + Total anomalous pulmonary venous connection (TAPVC)". In the event of Single Ventricle occurring in association with Total anomalous pulmonary venous connection (TAPVC), code "Single Ventricle + Total anomalous pulmonary venous connection (TAPVC)", and then use additional (secondary) diagnostic codes to describe the Single Ventricle and the Total anomalous pulmonary venous

851

Single Ventricle + Total

connection (TAPVC)

anomalous pulmonary venous

connection (TAPVC) separately to provide further documentation about the Single Ventricle and Total anomalous pulmonary venous connection (TAPVC) types. {"Total anomalous pulmonary venous connection (TAPVC)" is defined as a heart where all of the pulmonary veins connect anomalously with the right atrium or to one or more of its venous tributaries. None of the pulmonary veins connect normally to the left atrium.}

The version of the IPCCC derived from the International Congenital Heart Surgery Nomenclature and Database Project of the EACTS and STS uses the term "single ventricle" as synonymous for the "functionally univentricular heart".

The term "functionally univentricular heart" describes a spectrum of congenital cardiovascular malformations in which the ventricular mass may not readily lend itself to partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular heart include complex forms of atrioventricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart".

Reference: Jacobs JP, Franklin RCG, Jacobs ML, Colan SD, Tchervenkov CI, Maruszewski B, Gaynor JW, Spray TL, Stellin G, Aiello VD, Béland MJ, Krogmann ON, Kurosawa H, Weinberg PM, Elliott MJ, Mavroudis C, Anderson R. Classification of the Functionally Univentricular Heart: Unity from mapped codes. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges in the Management of the Functionally Univentricular Heart, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16, Supplement 1: 9 -21, February 2006.

870 Congenitally corrected TGA Indicate if the patient has the diagnosis of "Congenitally corrected TGA". Congenitally corrected transposition is synonymous with the terms 'corrected transposition'

872

IVS

Congenitally corrected TGA,

and 'discordant atrioventricular connections with discordant ventriculo-arterial connections', and is defined as a spectrum of cardiac malformations where the atrial chambers are joined to morphologically inappropriate ventricles, and the ventricles then support morphologically inappropriate arterial trunks [1]. [1] Jacobs JP, Franklin RCG, Wilkinson JL, Cochrane AD, Karl TR, Aiello VD, Béland MJ, Colan SD, Elliott, MJ, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Tchervenkov CI, Weinberg PM. The nomenclature, definition and classification of discordant atrioventricular connections. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges of the Atrioventricular Junctions and Other Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16 (Supplement 3): 72-84, September 2006.

Indicate if the patient has the diagnosis of "Congenitally corrected TGA, IVS". "Congenitally corrected TGA, IVS" is "Congenitally corrected transposition with an intact ventricular septum", in other words, "Congenitally corrected transposition with no VSD". (Congenitally corrected transposition is synonymous with the terms 'corrected transposition' and 'discordant atrioventricular connections with discordant ventriculoarterial connections', and is defined as a spectrum of cardiac malformations where the atrial chambers are joined to morphologically inappropriate ventricles, and the ventricles then support morphologically inappropriate arterial trunks [1]. [1] Jacobs JP, Franklin RCG, Wilkinson JL, Cochrane AD, Karl TR, Aiello VD, Béland MJ, Colan SD, Elliott, MJ, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Tchervenkov CI, Weinberg PM. The nomenclature, definition and classification of discordant atrioventricular connections. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges of the Atrioventricular Junctions and Other Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16 (Supplement 3): 72-84, September 2006.)

(Congenitally corrected transposition is synonymous

874 Congenitally corrected TGA, IVS-LVOTO Indicate if the patient has the diagnosis of "Congenitally corrected TGA, IVS-LVOTO". "Congenitally corrected TGA, IVS-LVOTO" is "Congenitally corrected transposition with an intact ventricular septum and left ventricular outflow tract obstruction", in other words, "Congenitally corrected transposition with left ventricular outflow tract obstruction and no VSD". 876

VSD

Congenitally corrected TGA,

with the terms 'corrected transposition' and 'discordant atrioventricular connections with discordant ventriculoarterial connections', and is defined as a spectrum of cardiac malformations where the atrial chambers are joined to morphologically inappropriate ventricles, and the ventricles then support morphologically inappropriate arterial trunks [1]. [1] Jacobs JP, Franklin RCG, Wilkinson JL, Cochrane AD, Karl TR, Aiello VD, Béland MJ, Colan SD, Elliott, MJ, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Tchervenkov CI, Weinberg PM. The nomenclature, definition and classification of discordant atrioventricular connections. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges of the Atrioventricular Junctions and Other Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16 (Supplement 3): 72-84, September 2006.)

Indicate if the patient has the diagnosis of "Congenitally corrected TGA, VSD". "Congenitally corrected TGA, VSD" is "Congenitally corrected transposition with a VSD". (Congenitally corrected transposition is synonymous with the terms 'corrected transposition' and 'discordant atrioventricular connections with discordant ventriculo-arterial connections', and is defined as a spectrum of cardiac malformations where the atrial chambers are joined to morphologically inappropriate ventricles, and the ventricles then support morphologically inappropriate arterial trunks [1]. [1] Jacobs JP, Franklin RCG, Wilkinson JL, Cochrane AD, Karl TR, Aiello VD, Béland MJ, Colan SD, Elliott, MJ, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Tchervenkov CI, Weinberg PM. The nomenclature, definition and classification of discordant atrioventricular connections. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges of the Atrioventricular Junctions and Other Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16 (Supplement 3): 72-84, September 2006.)

Congenitally corrected TGA, VSD-LVOTO Indicate if the patient has the diagnosis of "Congenitally corrected TGA, VSD-LVOTO". "Congenitally corrected TGA, VSD-LVOTO" is "Congenitally corrected transposition with a VSD and left ventricular outflow tract obstruction". (Congenitally corrected transposition is synonymous with the terms 'corrected transposition' and 'discordant atrioventricular connections with discordant ventriculo-arterial connections', and is defined as a spectrum of cardiac

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		malformations where the atrial chambers are joined to morphologically inappropriate ventricles, and the ventricles then support morphologically inappropriate arterial trunks [1]. [1] Jacobs JP, Franklin RCG, Wilkinson JL, Cochrane AD, Karl TR, Aiello VD, Béland MJ, Colan SD, Elliott, MJ, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Tchervenkov CI, Weinberg PM. The nomenclature, definition and classification of discordant atrioventricular connections. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges of the Atrioventricular Junctions and Other Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16 (Supplement 3): 72-84, September 2006.)
880	TGA, IVS	A malformation of the heart in which there is atrioventricular concordance and ventriculoarterial discordance with an intact ventricular septum. There may be d, l, or ambiguous transposition (segmental diagnoses include S,D,D, S,D,L, S,D,A). Also to be included in this diagnostic grouping are those defects with situs inversus, L-loop ventricles and either d or l transposition (segmental diagnosis of I,L,L and I,L,D) and occasionally those defects with ambiguous situs of the atria which behave as physiologically uncorrected transposition and are treated with arterial switch (segmental diagnoses include A,L,L and A,D,D).
890	TGA, IVS-LVOTO	A malformation of the heart in which there is atrioventricular concordance and ventriculoarterial discordance with an intact ventricular septum and associated left ventricular obstruction. There may be d, l, or ambiguous transposition (segmental diagnoses include S,D,D, S,D,L, S,D,A). Also to be included in this diagnostic grouping are those defects with situs inversus, L-loop ventricles and either d or l transposition (segmental diagnosis of I,L,L and I,L,D) and occasionally those defects with ambiguous situs of the atria which behave as physiologically uncorrected transposition and are treated with arterial switch (segmental diagnoses include A,L,L and A,D,D).
900	TGA, VSD	A malformation of the heart in which there is atrioventricular concordance and ventriculoarterial discordance with one or more ventricular septal defects. There may be d, l, or ambiguous transposition (segmental diagnoses include S,D,D, S,D,L, S,D,A). Also to be included in this diagnostic grouping are those defects with situs inversus, L-loop ventricles and either d or l transposition (segmental diagnosis of I,L,L and I,L,D) and occasionally those defects with ambiguous situs of the atria which behave as physiologically uncorrected transposition and are treated with arterial

		switch (segmental diagnoses include A,L,L and A,D,D).
910	TGA, VSD-LVOTO	A malformation of the heart in which there is atrioventricular concordance and ventriculoarterial discordance with one or more ventricular septal defects and left ventricular outflow tract obstruction. There may be d, l, or ambiguous transposition (segmental diagnoses include S,D,D, S,D,L, S,D,A). Also to be included in this diagnostic grouping are those defects with situs inversus, L-loop ventricles and either d or 1 transposition (segmental diagnosis of I,L,L and I,L,D) and occasionally those defects with ambiguous situs of the atria which behave as physiologically uncorrected transposition and are treated with arterial switch (segmental diagnoses include A,L,L and A,D,D).
930	DORV, VSD type	Double outlet right ventricle is a type of ventriculoarterial connection in which both great vessels arise entirely or predominantly from the right ventricle. In double outlet right ventricle, VSD type, there is an associated subaortic or doubly-committed VSD and no pulmonary outflow tract obstruction. Subaortic VSD's are located beneath the aortic valve. Doubly-committed VSD's lie beneath the leaflets of the aortic and pulmonary valves (juxtaarterial). In the nomenclature developed for DORV, there must be usual atrial arrangements and concordant atrioventricular connections, and normal or near-normal sized ventricles. Discordant atrioventricular connection with DORV is to be coded under congenitally corrected TGA. DORV associated with univentricular atrioventricular connections, atrioventricular valve atresia, or atrial isomerism is to be coded under the appropriate single ventricle listing.
940	DORV, TOF type	Double outlet right ventricle is a type of ventriculoarterial connection in which both great vessels arise entirely or predominantly from the right ventricle. In double outlet right ventricle, TOF type, there is an associated subaortic or doubly-committed VSD and pulmonary outflow tract obstruction. Subaortic VSD's are located beneath the aortic valve. Doubly-committed VSD's lie beneath the leaflets of the aortic and pulmonary valves (juxtaarterial). DORV can occur in association with pulmonary atresia, keeping in mind in coding that in the nomenclature developed for DORV, there must be usual atrial arrangements and concordant atrioventricular connections, and normal or near-normal sized ventricles (in this situation DORV is coded as a primary diagnosis). Discordant atrioventricular connection with DORV is to be coded under congenitally corrected TGA. DORV associated with univentricular atrioventricular connections, atrioventricular valve atresia, or atrial isomerism is to be coded under the appropriate Single ventricle listing.

STS Adult Cardiac Surg	jery Database	Version: 2.81
950	DORV, TGA type	Double outlet right ventricle is a type of ventriculoarterial connection in which both great vessels arise entirely or predominantly from the right ventricle. In double outlet right ventricle, TGA type, there is an associated subpulmonary VSD. Most frequently, there is no pulmonary outflow tract obstruction (Taussig-Bing heart). The aorta is usually to the right and slightly anterior to or side-by-side with the pulmonary artery. Associated aortic outflow tract stenosis (subaortic, aortic arch obstruction) is commonly associated with the Taussig-Bing heart and if present should be coded as a secondary diagnosis. Rarely, there is associated pulmonary outflow tract obstruction. In the nomenclature developed for DORV, there must be usual atrial arrangements and concordant atrioventricular connections, and normal or near-normal sized ventricles. Discordant atrioventricular connection with DORV is to be coded under congenitally corrected TGA. DORV associated with univentricular atrioventricular connections, atrioventricular valve atresia, or atrial isomerism is to be coded under the appropriate single ventricle listing.
960	DORV, Remote VSD (uncommitted VSD)	Double outlet right ventricle is a type of ventriculoarterial connection in which both great vessels arise entirely or predominantly from the right ventricle. In double outlet right ventricle, Remote VSD type, there is a remote or noncommitted VSD. The VSD is far removed from both the aortic and pulmonary valves, usually within the inlet septum. Many of these VSD's are in hearts with DORV and common atrioventricular canal/septal defect. In the nomenclature developed for DORV, there must be usual atrial arrangements and concordant atrioventricular connections, and normal or near-normal sized ventricles. Discordant atrioventricular connection with DORV is to be coded under congenitally corrected TGA. DORV associated with univentricular atrioventricular connections, atrioventricular valve atresia, or atrial isomerism is to be coded under the appropriate single ventricle listing.
2030	DORV + AVSD (AV Canal)	Indicate if the patient has the diagnosis of "DORV + AVSD (AV Canal)". In the event of DORV occurring in association with AVSD (AV Canal), code "DORV + AVSD (AV Canal)", and then use additional (secondary) diagnostic codes to describe the DORV and the AVSD (AV Canal) separately to provide further documentation about the DORV and AVSD (AV Canal) types. {"DORV" is "Double outlet right ventricle" and is defined as a type of ventriculoarterial connection in which both great vessels arise entirely or predominantly from the right ventricle.} In this case, the DORV exists in combination with an atrioventricular septal defect and common atrioventricular junction guarded by a common atrioventricular valve.

lult Cardiac Sur	gery Database	Version: 2.81
975	DORV, IVS	Double outlet right ventricle is a type of ventriculoarterial connection in which both great vessels arise entirely or predominantly from the right ventricle. In the rare case of double outlet right ventricle with IVS the ventricular septum is intact. In the nomenclature developed for DORV, there must be usual atrial arrangements and concordant atrioventricular connections, and normal or near-normal sized ventricles. Discordant atrioventricular connections with DORV are to be coded under congenitally corrected TGA. DORV associated with univentricular atrioventricular connections, atrioventricular valve atresia, or atrial isomerism is to be coded under the appropriate single ventricle listing.
980	DOLV	Double outlet left ventricle is a type of ventriculoarterial connection in which both great vessels arise entirely or predominantly from the left ventricle. In the nomenclature developed for DOLV, there must be usual atrial arrangements and concordant atrioventricular connections, and normal or near-normal sized ventricles. Discordant atrioventricular connection with DOLV is to be coded under congenitally corrected TGA. DOLV associated with univentricular atrioventricular connections, atrioventricular valve atresia, or atrial isomerism is to be coded under the appropriate single ventricle listing.
990	Coarctation of aorta	Indicate if the patient has the diagnosis of "Coarctation of aorta". A "Coarctation of the aorta" generally indicates a narrowing of the descending thoracic aorta just distal to the left subclavian artery. However, the term may also be accurately used to refer to a region of narrowing anywhere in the thoracic or abdominal aorta.
1000	Aortic arch hypoplasia	Hypoplasia of the aortic arch is hypoplasia of the proximal or distal transverse arch or the aortic isthmus. The isthmus (arch between the left subclavian and insertion of the patent ductus arteriosus / ligamentum arteriosum) is hypoplastic if its diameter is less than 40% of the diameter of the ascending aorta. The proximal transverse arch (arch between the innominate and left carotid arteries) and distal transverse arch (arch between the left carotid and left subclavian arteries) are hypoplastic if their diameters are less than 60% and 50%, respectively, of the diameter of the ascending aorta.
92	VSD + Aortic arch hypoplasia	A ventricular septal defect, any type, associated with hypoplasia of the aortic arch. (See diagnosis definition 1000 for a definition of hypoplasia of the aortic arch.)
94	VSD + Coarctation of aorta	Indicate if the patient has the diagnosis of "VSD + Coarctation of aorta". In the event of a VSD occurring in association with Coarctation of aorta, code "VSD + Coarctation of aorta", and then use additional (secondary) diagnostic codes to describe the VSD and

the Coarctation of aorta separately to provide further documentation about the individual VSD and Coarctation of aorta types. {A "VSD" is a "Ventricular Septal Defect" and is also known as an "Interventricular communication". A VSD is defined as "a hole between the ventricular chambers or their remnants". (The VSD is defined on the basis of its margins as seen from the aspect of the morphologically right ventricle. In the setting of double outlet right ventricle, the defect provides the outflow from the morphologically left ventricle. In univentricular atrioventricular connections with functionally single left ventricle with an outflow chamber, the communication is referred to by some as a bulboventricular foramen.)} {A "Coarctation of the aorta" generally indicates a narrowing of the descending thoracic aorta just distal to the left subclavian artery. However, the term may also be accurately used to refer to a region of narrowing anywhere in the thoracic or abdominal aorta.}

Anomalous aortic origins of the coronary arteries include a spectrum of anatomic variations of the normal coronary artery origins. Coronary artery anomalies of aortic origin to be coded under this diagnostic field include: anomalies of take-off (high take-off), origin (sinus), branching, and number. An anomalous course of the coronary artery vessels is also significant, particularly those coronary arteries that arise or course between the great vessels.

In patients with anomalous pulmonary origin of the coronary artery, the coronary artery (most commonly the left coronary artery) arises from the pulmonary artery rather than from the aorta. Rarely, the right coronary artery, the circumflex, or both coronary arteries may arise from the pulmonary artery.

The most common of coronary artery anomalies, a coronary arteriovenous fistula is a communication between a coronary artery and either a chamber of the heart (coronary-cameral fistula) or any segment of the systemic or pulmonary circulation (coronary arteriovenous fistula). They may be congenital or acquired (traumatic, infectious, iatrogenic) in origin, and are mostly commonly seen singly, but occasionally multiple fistulas are present. Nomenclature schemes have been developed that further categorize the fistulas by vessel of origin and chamber of termination, and one angiographic classification scheme by Sakakibara has surgical implications. Coronary artery fistulas can be associated with other congenital heart anomalies such as tetralogy of Fallot, atrial septal defect, ventricular septal defect, and pulmonary atresia with intact ventricular septum, among others. The major cardiac defect should be listed as the primary diagnosis and the coronary artery fistula should be as an additional secondary

1010 Coronary artery anomaly, Anomalous aortic origin of coronary artery (AAOCA)

- 1020 Coronary artery anomaly, Anomalous pulmonary origin (includes ALCAPA)
- 1030 Coronary artery anomaly, Fistula

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		diagnoses.
1040	Coronary artery anomaly, Aneurysm	Coronary artery aneurysms are defined as dilations of a coronary vessel 1.5 times the adjacent normal coronaries. There are two forms, saccular and fusiform (most common), and both may be single or multiple. These aneurysms may be congenital or acquired (atherosclerotic, Kawasaki, systemic diseases other than Kawasaki, iatrogenic, infectious, or traumatic) in origin.
1050	Coronary artery anomaly, Other	Coronary artery anomalies which may fall within this category include coronary artery bridging and coronary artery stenosis, as well as secondary coronary artery variations seen in congenital heart defects such as tetralogy of Fallot, transposition of the great arteries, and truncus arteriosus (with the exception of variations that can be addressed by a more specific coronary artery anomaly code).
1070	Interrupted aortic arch	Indicate if the patient has the diagnosis of "Interrupted aortic arch". Interrupted aortic arch is defined as the loss of luminal continuity between the ascending and descending aorta. In most cases blood flow to the descending thoracic aorta is through a PDA, and there is a large VSD. Arch interruption is further defined by site of interruption. In type A, interruption is distal to the left subclavian artery; in type B interruption is between the left carotid and left subclavian arteries; and in type C interruption occurs between the innominate and left carotid arteries.
2020	Interrupted aortic arch + VSD	Indicate if the patient has the diagnosis of "Interrupted aortic arch + VSD". In the event of interrupted aortic arch occurring in association with VSD, code "Interrupted aortic arch + VSD", and then use additional (secondary) diagnostic codes to describe the interrupted aortic arch and the VSD separately to provide further documentation about the individual interrupted aortic arch and VSD types. {Interrupted aortic arch is defined as the loss of luminal continuity between the ascending and descending aorta. In most cases blood flow to the descending thoracic aorta is through a PDA, and there is a large VSD. Arch interruption is further defined by site of interruption. In type A, interruption is distal to the left subclavian artery; in type B interruption is between the left carotid and left subclavian arteries; and in type C interruption occurs between the innominate and left carotid arteries.} {A "VSD" is a "Ventricular Septal Defect" and is also known as an "Interventricular communication". A VSD is defined as "a hole between the ventricular chambers or their remnants". (The VSD is defined on the basis of its margins as seen from the aspect of the morphologically right ventricle. In the setting of double outlet right ventricle, the defect provides the outflow from the morphologically left

2000

Interrupted aortic $\operatorname{arch} + \operatorname{AP}$

window (aortopulmonary

window)

ventricle. In univentricular atrioventricular connections with functionally single left ventricle with an outflow chamber, the communication is referred to by some as a bulboventricular foramen.)}

Indicate if the patient has the diagnosis of "Interrupted aortic arch + AP window (aortopulmonary window)". In the event of interrupted aortic arch occurring in association with AP window, code "Interrupted aortic arch + AP window (aortopulmonary window)", and then use additional (secondary) diagnostic codes to describe the interrupted aortic arch and the AP window separately to provide further documentation about the individual interrupted aortic arch and AP window types. {Interrupted aortic arch is defined as the loss of luminal continuity between the ascending and descending aorta. In most cases blood flow to the descending thoracic aorta is through a PDA, and there is a large VSD. Arch interruption is further defined by site of interruption. In type A, interruption is distal to the left subclavian artery; in type B interruption is between the left carotid and left subclavian arteries; and in type C interruption occurs between the innominate and left carotid arteries.} {An "AP window (aortopulmonary window)" is defined as a defect with side-to-side continuity of the lumens of the aorta and pulmonary arterial tree, which is distinguished from common arterial trunk (truncus arteriosus) by the presence of two arterial valves or their atretic remnants. (In other words, an aortopulmonary window is a communication between the main pulmonary artery and ascending aorta in the presence of two separate semilunar [pulmonary and aortic] valves. The presence of two separate semilunar valves distinguishes AP window from truncus arteriosus. Type 1 proximal defect: AP window located just above the sinus of Valsalva, a few millimeters above the semilunar valves. with a superior rim but little inferior rim separating the AP window from the semilunar valves. Type 2 distal defect: AP window located in the uppermost portion of the ascending aorta, with a well-formed inferior rim but little superior rim. Type 3 total defect: AP window involving the majority of the ascending aorta, with little superior and inferior rims. The intermediate type of AP window is similar to the total defect but with adequate superior and inferior rims. In the event of AP window occurring in association with interrupted aortic arch, code "Interrupted aortic arch + AP window (aortopulmonary window)", and then use additional (secondary) diagnostic codes to describe the interrupted aortic arch and AP window separately to provide further documentation about the individual interrupted arch and AP window types.)}

Indicate if the patient has the diagnosis of "Patent

1080 Patent ductus arteriosus

		ductus arteriosus". The ductus arteriosus (arterial duct) is an essential feature of fetal circulation, connecting the main pulmonary trunk with the descending aorta, distal to the origin of the left subclavian artery. In most patients it is on the left side. If a right aortic arch is present, it may be on the right or the left; very rarely it is bilateral. When luminal patency of the duct persists post-natally, it is referred to as patent ductus arteriosus (patent arterial duct). The length and diameter may vary considerably from case to case. The media of the ductus consists mainly of smooth muscle that is arranged spirally, and the intima is much thicker than that of the aorta. (A patent ductus arteriosus is a vascular arterial connection between the thoracic aorta and the pulmonary artery. Most commonly a PDA has its origin from the descending thoracic aorta, just distal and opposite the origin of the left subclavian artery. The insertion of the ductus is most commonly into the very proximal left pulmonary artery at its junction with the main pulmonary artery. Origination and insertion sites can be variable, however.)
1090	Vascular ring	The term vascular ring refers to a group of congenital vascular anomalies that encircle and compress the esophagus and trachea. The compression may be from a complete anatomic ring (double aortic arch or right aortic arch with a left ligamentum) or from a compressive effect of an aberrant vessel (innominate artery compression syndrome).
1100	Pulmonary artery sling	In pulmonary artery sling, the left pulmonary artery originates from the right pulmonary artery and courses posteriorly between the trachea and esophagus in its route to the left lung hilum, causing a sling-like compression of the trachea.
1110	Aortic aneurysm (including pseudoaneurysm)	An aneurysm of the aorta is defined as a localized dilation or enlargement of the aorta at any site along its length (from aortic annulus to aortoiliac bifurcation). A true aortic aneurysm involves all layers of the aortic wall. A false aortic aneurysm (pseudoaneurysm) is defined as a dilated segment of the aorta not containing all layers of the aortic wall and may include postoperative or post-procedure false aneurysms at anastomotic sites, traumatic aortic injuries or transections, and infectious processes leading to a contained rupture.
1120	Aortic dissection	Aortic dissection is a separation of the layers of the aortic wall. Extension of the plane of the dissection may progress to free rupture into the pericardium, mediastinum, or pleural space if not contained by the outer layers of the media and adventitia. Dissections may be classified as acute or chronic (if they have been present for more than 14 days).
1130	Lung disease, Benign	Lung disease arising from any etiology (congenital or

iac Surgery Database		Version: 2.81
		acquired) which does not result in death or lung or heart- lung transplant; examples might be non-life threatening asthma or emphysema, benign cysts.
1140	Lung disease, Malignant	Lung disease arising from any etiology (congenital or acquired, including pulmonary parenchymal disease, pulmonary vascular disease, congenital heart disease, neoplasm, etc.) which may result in death or lung or heart-lung transplant.
1160	Tracheal stenosis	Tracheal stenosis is a reduction in the anatomic luminal diameter of the trachea by more than 50% of the remaining trachea. This stenosis may be congenital or acquired (as in post-intubation or traumatic tracheal stenosis).
1170	Airway disease	Included in this diagnostic category would be airway pathology not included under the definition of tracheal stenosis such as tracheomalacia, bronchotracheomalacia, tracheal right upper lobe, bronchomalacia, subglottic stenosis, bronchial stenosis, etc.
1430	Pleural disease, Benign	Benign diseases of the mediastinal or visceral pleura.
1440	Pleural disease, Malignant	Malignant diseases of the mediastinal or visceral pleura.
1450	Pneumothorax	A collection of air or gas in the pleural space.
1460	Pleural effusion	Abnormal accumulation of fluid in the pleural space.
1470	Chylothorax	The presence of lymphatic fluid in the pleural space secondary to a leak from the thoracic duct or its branches. Chylothorax is a specific type of pleural effusion.
1480	Empyema	A collection of purulent material in the pleural space, usually secondary to an infection.
1490	Esophageal disease, Benign	Any benign disease of the esophagus.
1500	Esophageal disease, Malignant	Any malignant disease of the esophagus.
1505	Mediastinal disease	Any disease of the mediastinum awaiting final benign/malignant pathology determination.
1510	Mediastinal disease, Benign	Any benign disease of the mediastinum.
1520	Mediastinal disease, Malignant	Any malignant disease of the mediastinum.
1540	Diaphragm paralysis	Paralysis of diaphragm, unilateral or bilateral.
1550	Diaphragm disease, Other	Any disease of the diaphragm other than paralysis.
2160	Rib tumor, Benign	Non-cancerous tumor of rib(s) (e.g., fibrous dysplasia)
2170	Rib tumor, Malignant	Cancerous tumor of rib(s)- primary (e.g., osteosarcoma, chondrosarcoma)
2180	Rib tumor, Metastatic	Cancerous tumor metastasized to rib(s)from a different primary location
2190	Sternal tumor, Benign	Non-cancerous tumor of sternum (e.g., fibrous dysplasia)

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2200	Sternal tumor, Malignant	Cancerous tumor of sternum - primary (e.g., osteosarcoma, chondrosarcoma)
2210	Sternal tumor, Metastatic	Cancerous tumor metastasized to sternum from a different primary location
2220	Pectus carinatum	Pectus carinatum represents a spectrum of protrusion abnormalities of the anterior chest wall. Severe deformity may result in dyspnea and decreased endurance. Some patients develop rigidity of the chest wall with decreased lung compliance, progressive emphysema, and increased frequency of respiratory tract infections.
2230	Pectus excavatum	Pectus excavatum is a congenital chest wall deformity in which several ribs and the sternum grow abnormally producing a concave, or caved-in, appearance in the anterior chest wall. Pectus excavatum is the most common type of congenital chest wall abnormality. It occurs in an estimated 1 in 300-400 births, with male predominance (male-to-female ratio of 3:1). The condition is typically noticed at birth, and more than 90% of cases are diagnosed within the first year of life. Worsening of the chest's appearance and the onset of respiratory symptoms are usually reported during rapid bone growth in the early teenage years.
2240	Thoracic outlet syndrome	Thoracic outlet syndrome (TOS) is caused by compression at the superior thoracic outlet wherein excess pressure is placed on a neurovascular bundle passing between the anterior scalene and middle scalen muscles. It can affect the brachial plexus (nerves that pass into the arm from the neck), the subclavian artery, and - rarely - the vein, which does not normally pass through the scalene hiatus. TOS may occur due to a positional cause - for example, by abnormal compression from the clavicle (collarbone) and should girdle on arm movement. There are also several static forms, caused by abnormalities, enlargement, or spasm of the various muscles surrounding the arteries, veins, and/or brachial plexus, a fixation of a first rib, or a cervical rib. The most common causes of thoracic outle syndrome include physical trauma from a car accident, repetitive injuries from a job such as frequent non- ergonomic use of a keyboard, sports-related activities, anatomical defects such as having an extra rib, and pregnancy.
1180	Arrhythmia	Any cardiac rhythm other than normal sinus rhythm.
2040	Arrhythmia, Atrial	Indicate if the patient has the diagnosis of "Arrhythmia Atrial". "Arrhythmia, Atrial" ROOT Definition = Non-sinus atrial rhythm with or without atrioventricula conduction. [1]. [1]. Jacobs JP. (Editor). 2008 Supplement to Cardiology in the Young: Databases an The Assessment of Complications associated with The Treatment of Patients with Congenital Cardiac Disease

ac Surç	gery Database	Version: 2.81
		Prepared by: The Multi-Societal Database Committee for Pediatric and Congenital Heart Disease, Cardiology in the Young, Volume 18, Supplement S2, pages 1–530, December 9, 2008, page 373.
2050	Arrhythmia, Junctional	 Indicate if the patient has the diagnosis of "Arrhythmia, Junctional". "Arrhythmias arising from the atrioventricular junction; may be bradycardia, tachycardia, premature beats, or escape rhythm [1]. [1]. Jacobs JP. (Editor). 2008 Supplement to Cardiology in the Young: Databases and The Assessment of Complications associated with The Treatment of Patients with Congenital Cardiac Disease, Prepared by: The Multi-Societal Database Committee for Pediatric and Congenital Heart Disease, Cardiology in the Young, Volume 18, Supplement S2, pages 1 –530, December 9, 2008, page 379.
2060	Arrhythmia, Ventricular	Indicate if the patient has the diagnosis of "Arrhythmia, Ventricular". "Arrhythmia, Ventricular" ROOT Definition = Abnormal rhythm originating from the ventricles [1]. [1]. Jacobs JP. (Editor). 2008 Supplement to Cardiology in the Young: Databases and The Assessment of Complications associated with The Treatment of Patients with Congenital Cardiac Disease, Prepared by: The Multi-Societal Database Committee for Pediatric and Congenital Heart Disease, Cardiology in the Young, Volume 18, Supplement S2, pages 1 –530, December 9, 2008, page 393.
1185	Arrhythmia, Heart block	Atrioventricular block may be congenital or acquired, and may be of varying degree (first, second, or third degree).
1190	Arrhythmia, Heart block, Acquired	Atrioventricular block, when acquired, may be post- surgical, or secondary to myocarditis or other etiologies; the block may be first, second or third degree.
1200	Arrhythmia, Heart block, Congenital	Atrioventricular block, when congenital, may be first, second or third degree block.
1220	Arrhythmia, Pacemaker, Indication for replacement	Indications for pacemaker replacement may include end of generator life, malfunction, or infection.
1230	Atrial Isomerism, Left	In isomerism, both appendages are of like morphology or structure; in left atrial isomerism both the right atrium and left atrium appear to be a left atrium structurally.
1240	Atrial Isomerism, Right	In isomerism, both appendages are of like morphology or structure; in right atrial isomerism both the right atrium and left atrium appear to be a right atrium structurally.
2090	Dextrocardia	Indicate if the patient has the diagnosis of "Dextrocardia". "Dextrocardia" is most usually considered synonymous with a right-sided ventricular mass, whilst "dextroversion" is frequently defined as a configuration where the ventricular apex points to the

		right. In a patient with the usual atrial arrangement, or situs solitus, dextroversion, therefore, implies a turning to the right of the heart [1]. [1]. Jacobs JP, Anderson RH, Weinberg P, Walters III HL, Tchervenkov CI, Del Duca D, Franklin RCG, Aiello VD, Béland MJ, Colan SD, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Elliott MJ. The nomenclature, definition and classification of cardiac structures in the setting of heterotaxy. In 2007 Supplement to Cardiology in the Young: Controversies and Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Anderson RH, Jacobs JP, and Wernovsky G, editors. Cardiology in the Young, Volume 17, Supplement 2, pages 1–28, doi: 10.1017/S1047951107001138, September 2007.
2100	Levocardia	Indicate if the patient has the diagnosis of "Levocardia". "Levocardia" usually considered synonymous with a left-sided ventricular mass, whilst "levoversion" is frequently defined as a configuration where the ventricular apex points to the left [1]. [1]. Jacobs JP, Anderson RH, Weinberg P, Walters III HL, Tchervenkov CI, Del Duca D, Franklin RCG, Aiello VD, Béland MJ, Colan SD, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Elliott MJ. The nomenclature, definition and classification of cardiac structures in the setting of heterotaxy. In 2007 Supplement to Cardiology in the Young: Controversies and Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Anderson RH, Jacobs JP, and Wernovsky G, editors. Cardiology in the Young, Volume 17, Supplement 2, pages 1–28, doi: 10.1017/S1047951107001138, September 2007.
2110	Mesocardia	Indicate if the patient has the diagnosis of "Mesocardia". "Mesocardia" is most usually considered synonymous with the ventricular mass occupying the midline [1]. [1]. Jacobs JP, Anderson RH, Weinberg P, Walters III HL, Tchervenkov CI, Del Duca D, Franklin RCG, Aiello VD, Béland MJ, Colan SD, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Elliott MJ. The nomenclature, definition and classification of cardiac structures in the setting of heterotaxy. In 2007 Supplement to Cardiology in the Young: Controversies and Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Anderson RH, Jacobs JP, and Wernovsky G, editors. Cardiology in the Young, Volume 17, Supplement 2, pages 1–28, doi: 10.1017/S1047951107001138, September 2007.
2120	Situs inversus	Indicate if the patient has the diagnosis of "Situs inversus" of the atrial chambers. The development of morphologically right-sided structures on one side of the body, and morphologically left-sided structures on the other side, is termed lateralization. Normal

		lateralization, the usual arrangement, is also known as ''situs solitus''. The mirror-imaged arrangement is also known as ''situs inversus''. The term ''visceroatrial situs'' is often used to refer to the situs of the viscera and atria when their situs is in agreement. The arrangement of the organs themselves, and the arrangement of the atrial chambers, is not always the same. Should such disharmony be encountered, the sidedness of the organs and atrial chambers must be separately specified [1]. [1]. Jacobs JP, Anderson RH, Weinberg P, Walters III HL, Tchervenkov CI, Del Duca D, Franklin RCG, Aiello VD, Béland MJ, Colan SD, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Elliott MJ. The nomenclature, definition and classification of cardiac structures in the setting of heterotaxy. In 2007 Supplement to Cardiology in the Young: Controversies and Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Anderson RH, Jacobs JP, and Wernovsky G, editors. Cardiology in the Young, Volume 17, Supplement 2, pages 1–28, doi: 10.1017/S1047951107001138, September 2007.
1250	Aneurysm, Ventricular, Right (including pseudoaneurysm)	An aneurysm of the right ventricle is defined as a localized dilation or enlargement of the right ventricular wall.
1260	Aneurysm, Ventricular, Left (including pseudoaneurysm)	An aneurysm of the left ventricle is defined as a localized dilation or enlargement of the left ventricular wall.
1270	Aneurysm, Pulmonary artery	An aneurysm of the pulmonary artery is defined as a localized dilation or enlargement of the pulmonary artery trunk and its central branches (right and left pulmonary artery).
1280	Aneurysm, Other	A localized dilation or enlargement of a cardiac vessel or chamber not coded in specific fields available for aortic aneurysm, sinus of Valsalva aneurysm, coronary artery aneurysm, right ventricular aneurysm, left ventricular aneurysm, or pulmonary artery aneurysm.
1290	Hypoplastic RV	Small size of the right ventricle. This morphological abnormality usually is an integral part of other congenital cardiac anomalies and, therefore, frequently does not need to be coded separately. It should, however, be coded as secondary to an accompanying congenital cardiac anomaly if the right ventricular hypoplasia is not considered an integral and understood part of the primary congenital cardiac diagnosis. It would rarely be coded as a primary and/or isolated diagnosis.
1300	Hypoplastic LV	Small size of the left ventricle. This morphological abnormality usually is an integral part of other congenital cardiac anomalies and, therefore, frequently does not need to be coded separately. It should,

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		however, be coded as secondary to an accompanying congenital cardiac anomaly if the left ventricular hypoplasia is not considered an integral and understood part of the primary congenital cardiac diagnosis. It would rarely be coded as a primary and/or isolated diagnosis.
2070	Postoperative bleeding	Indicate if the patient has the diagnosis of "Postoperative bleeding".
1310	Mediastinitis	Inflammation/infection of the mediastinum, the cavity between the lungs which holds the heart, great vessels, trachea, esophagus, thymus, and connective tissues. In the United States mediastinitis occurs most commonly following chest surgery.
1320	Endocarditis	An infection of the endocardial surface of the heart, which may involve one or more heart valves (native or prosthetic) or septal defects or prosthetic patch material placed at previous surgery.
1325	Rheumatic heart disease	Heart disease, usually valvar (e.g., mitral or aortic), following an infection with group A streptococci
1330	Prosthetic valve failure	Indicate if the patient has the diagnosis of "Prosthetic valve failure". This diagnosis is the primary diagnosis to be entered for patients undergoing replacement of a previously placed valve (not conduit) prosthesis, whatever type (e.g., bioprosthetic, mechanical, etc.). Failure may be due to, among others, patient somatic growth, malfunction of the prosthesis, or calcification or overgrowth of the prosthesis (e.g., pannus formation). Secondary or fundamental diagnosis would relate to the underlying valve disease entity. As an example, a patient undergoing removal or replacement of a prosthetic pulmonary valve previously placed for pulmonary insufficiency after repair of tetralogy of Fallot would have as a primary diagnosis "Prosthetic valve failure", as a secondary diagnosis "Pulmonary insufficiency", and as a fundamental diagnosis "Tetralogy of Fallot".
1340	Myocardial infarction	A myocardial infarction is the development of myocardial necrosis caused by a critical imbalance between the oxygen supply and demand of the myocardium. While a myocardial infarction may be caused by any process that causes this imbalance it most commonly results from plaque rupture with thrombus formation in a coronary vessel, resulting in an acute reduction of blood supply to a portion of the myocardium. Myocardial infarction is a usual accompaniment of anomalous left coronary artery from the pulmonary artery (ALCAPA).
1350	Cardiac tumor	An abnormal growth of tissue in or on the heart, demonstrating partial or complete lack of structural organization, and no functional coordination with normal cardiac tissue. Commonly, a mass is recognized

		which is distinct from the normal structural components of the heart. A primary cardiac tumor is one that arises directly from tissues of the heart, (e.g., myxoma, fibroelastoma, rhabdomyoma, fibroma, lipoma, pheochromocytoma, teratoma, hemangioma, mesothesioloma, sarcoma). A secondary cardiac tumor is one that arises from tissues distant from the heart, with subsequent spread to the otherwise normal tissues of the heart, (e.g., renal cell tumor with caval extension from the kidney to the level of the heart or tumor with extension from other organs or areas of the body (hepatic, adrenal, uterine, infradiaphragmatic)). N.B., in the nomenclature system developed, cardiac thrombus and cardiac vegetation are categorized as primary cardiac tumors.
1360	Pulmonary AV fistula	An abnormal intrapulmonary connection (fistula) between an artery and vein that occurs in the blood vessels of the lungs. Pulmonary AV fistulas may be seen in association with congenital heart defects; the associated cardiac defect should be coded as well.
1370	Pulmonary embolism	A pulmonary embolus is a blockage of an artery in the lungs by fat, air, clumped tumor cells, or a blood clot.
1385	Pulmonary vascular obstructive disease	Pulmonary vascular obstructive disease (PVOD) other than those specifically defined elsewhere (Eisenmenger's pulmonary vascular obstructive disease, primary pulmonary hypertension, persistent fetal circulation). The spectrum includes PVOD arising from (1) pulmonary arterial hypertension or (2) pulmonary venous hypertension or (3) portal hypertension, or (4) collage vascular disease, or (5) drug or toxin induced, or (6) diseases of the respiratory system, or (7) chronic thromboembolic disease, among others.
1390	Pulmonary vascular obstructive disease (Eisenmenger's)	"Eisenmenger syndrome" could briefly be described as "Acquired severe pulmonary vascular disease associated with congenital heart disease (Eisenmenger)". Eisenmenger syndrome is an acquired condition. In Eisenmenger-type pulmonary vascular obstructive disease, long-term left-to-right shunting (e.g., through a ventricular or atrial septal defect, patent ductus arteriosus, aortopulmonary window) can lead to chronic pulmonary hypertension with resultant pathological changes in the pulmonary vessels. The vessels become thick-walled, stiff, noncompliant, and may be obstructed. In Eisenmenger syndrome, the long-term left-to-right shunting will reverse and become right to left. Please note that the specific heart defect should be coded as a secondary diagnosis.
1400	Primary pulmonary hypertension	Primary pulmonary hypertension is a rare disease characterized by elevated pulmonary artery hypertension with no apparent cause. Two forms are included in the nomenclature, a sporadic form and a familial form which can be linked to the BMPR-II gene.

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1410	Persistent fetal circulation	Persistence of the blood flow pattern seen in fetal life, in which high pulmonary vascular resistance in the lungs results in decreased blood flow to the lungs. Normally, after birth pulmonary pressure falls with a fall in pulmonary vascular resistance and there is increased perfusion of the lungs. Persistent fetal circulation, also known as persistent pulmonary hypertension of the newborn, can be related to lung or diaphragm malformations or lung immaturity.
1420	Meconium aspiration	Aspiration of amniotic fluid stained with meconium before, during, or after birth can lead to pulmonary sequelae including (1) pneumothorax, (2) pneumomediastinum, (3) pneumopericardium, (4) lung infection, and (5) meconium aspiration syndrome (MAS) with persistent pulmonary hypertension.
2250	Kawasaki disease	Kawasaki disease, also known as Kawasaki syndrome, is an acute febrile illness of unknown etiology that primarily affects children younger than 5 years of age. it was first described in Japan in 1967, and the first cases outside of Japan were reported in Hawaii in 1976. It is characterized by fever, rash, swelling of the hands and feet, irritation and redness of the whites of the eyes, swollen lymph glands in the neck, and irritation and inflammation of the mouth, lips, and throat. Serious complications of Kawasaki disease include coronary artery dilations and aneurysms, and Kawasaki disease is a leading cause of acquired heart disease in children in the United States. The standard treatment with intravenous immunoglobulin and aspirin substantially decreases the development of coronary artery abnormalities.
1560	Cardiac, Other	Any cardiac diagnosis not specifically delineated in other diagnostic codes.
1570	Thoracic and/or mediastinal, Other	Any thoracic and/or mediastinal disease not specifically delineated in other diagnostic codes.
1580	Peripheral vascular, Other	Any peripheral vascular disease (congenital or acquired) or injury (from trauma or iatrogenic); vessels involved may include, but are not limited to femoral artery, femoral vein, iliac artery, brachial artery, etc.
2260	Complication of cardiovascular catheterization procedure	Unspecified complication of cardiovascular catheterization procedure
2270	Complication of cardiovascular catheterization procedure, Device embolization	Migration or movement of device introduced during a cardiac catheterization procedure to an unintended location
2280	Complication of cardiovascular catheterization procedure, Device malfunction	Malfunction of a device introduced during a cardiac catheterization procedure

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2290	Complication of cardiovascular catheterization procedure, Perforation	Perforation or puncture caused by a device introduced during a cardiac catheterization procedure
2300	Complication of interventional radiology procedure	Unspecified complication of interventional radiology procedure
2310	Complication of interventional radiology procedure, Device embolization	Migration or movement of device introduced during an interventional radiology procedure to an unintended location
2320	Complication of interventional radiology procedure, Device malfunction	Malfunction of a device introduced during an interventional radiology procedure
2330	Complication of interventional radiology procedure, Perforation	Perforation or puncture caused by a device introduced during an interventional radiology procedure
2340	Foreign body, Intracardiac foreign body	Presence of a foreign body within the heart
2350	Foreign body, Intravascular foreign body	Presence of a foreign body within an artery or vein
2360	Open sternum with closed skin	Sternotomy edges not re-approximated prior to closure of skin incision
2370	Open sternum with open skin (includes membrane placed to close skin)	Sternotomy and skin incision left open following surgery, covered with a membrane or dressing
2380	Retained sternal wire causing irritation	Surgically placed wire causing soft tissue irritation, pain or swelling (not infected)
2390	Syncope	A transient, self-limited loss of consciousness with an inability to maintain postural tone that is followed by spontaneous recovery. The term syncope excludes seizures, coma, shock, or other states of altered consciousness.
2400	Trauma, Blunt	Injury (ies) sustained from blunt force, caused by motor vehicle accidents, falls, blows or crush injuries
2410	Trauma, Penetrating	Injury (ies) sustained as a result of sharp force, including cutting or piercing instruments or objects, bites, or firearm injuries from projectiles.
7000	Normal heart	Normal heart.
7777	Miscellaneous, Other	Any disease (congenital or acquired) not specifically delineated in other diagnostic codes.
4010	Status post - PFO, Primary closure	
4020	Status post - ASD repair, Primary closure	
4030	Status post - ASD repair, Patch	

- 4040 Status post ASD repair, Device
- 6110 Status post ASD repair, Patch + PAPVC repair
- 4050 Status post ASD, Common atrium (single atrium), Septation
- 4060 Status post ASD creation/enlargement
- 4070 Status post ASD partial closure
- 4080 Status post Atrial septal fenestration
- 4085 Status post Atrial fenestration closure
- 4100 Status post VSD repair, Primary closure
- 4110 Status post VSD repair, Patch
- 4120 Status post VSD repair, Device
- 4130 Status post VSD, Multiple, Repair
- 4140 Status post VSD creation/enlargement
- 4150 Status post Ventricular septal fenestration
- 4170 Status post AVC (AVSD) repair, Complete (CAVSD)
- 4180 Status post AVC (AVSD) repair, Intermediate (Transitional)
- 4190 Status post AVC (AVSD) repair, Partial (Incomplete) (PAVSD)
- 6300 Status post Valvuloplasty, Common atrioventricular valve
- 6250 Status post Valvuloplasty converted to valve replacement in the same operation, Common atrioventricular valve
- 6230 Status post Valve replacement, Common atrioventricular valve

- 4210 Status post AP window repair
- 4220 Status post Pulmonary artery origin from ascending aorta (hemitruncus) repair
- 4230 Status post Truncus arteriosus repair
- 4240 Status post Valvuloplasty, Truncal valve
- 6290 Status post Valvuloplasty converted to valve replacement in the same operation, Truncal valve
- 4250 Status post Valve replacement, Truncal valve
- 6220 Status post Truncus + Interrupted aortic arch repair (IAA) repair
- 4260 Status post PAPVC repair
- 4270 Status post PAPVC, Scimitar, Repair
- 6120 Status post PAPVC repair, Baffle redirection to left atrium with systemic vein translocation (Warden) (SVC sewn to right atrial appendage)
- 4280 Status post TAPVC repair
- 6200 Status post TAPVC repair + Shunt - systemic-topulmonary
- 4290 Status post Cor triatriatum repair
- 4300 Status post Pulmonary venous stenosis repair
- 4310 Status post Atrial baffle procedure (non-Mustard, non-Senning)
- 4330 Status post Anomalous systemic venous connection repair
- 4340 Status post Systemic venous stenosis repair
- 4350 Status post TOF repair, No ventriculotomy
- 4360 Status post TOF repair, Ventriculotomy,

Nontransanular patch

- 4370 Status post TOF repair, Ventriculotomy, Transanular patch
- 4380 Status post TOF repair, RV-PA conduit
- 4390 Status post TOF AVC (AVSD) repair
- 4400 Status post TOF Absent pulmonary valve repair
- 4420 Status post Pulmonary atresia - VSD (including TOF, PA) repair
- 6700 Status post Pulmonary atresia - VSD - MAPCA repair, Complete single stage repair (1-stage that includes bilateral pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])
- 6710 Status post Pulmonary atresia - VSD - MAPCA repair, Status post prior complete unifocalization (includes VSD closure + RV to PA connection [with or without conduit])
- 6720 Status post Pulmonary atresia - VSD - MAPCA repair, Status post prior incomplete unifocalizarion (includes completion of pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])
- 6730 Status post Unifocalization MAPCA(s), Bilateral pulmonary unifocalization -Complete unifocalization (all usable MAPCA[s] are incorporated)
- 6740 Status post Unifocalization MAPCA(s), Bilateral pulmonary unifocalization -Incomplete unifocalization (not all usable MAPCA[s] are incorporated)

- 6750 Status post Unifocalization MAPCA(s), Unilateral pulmonary unifocalization
- 4440 Status post Unifocalization MAPCA(s)
- 4450 Status post Occlusion of MAPCA(s)
- 4460 Status post Valvuloplasty, Tricuspid
- 6280 Status post Valvuloplasty converted to valve replacement in the same operation, Tricuspid
- 4465 Status post Ebstein's repair
- 4470 Status post Valve replacement, Tricuspid (TVR)
- 4480 Status post Valve closure, Tricuspid (exclusion, univentricular approach)
- 4490 Status post Valve excision, Tricuspid (without replacement)
- 4500 Status post Valve surgery, Other, Tricuspid
- 4510 Status post RVOT procedure
- 4520 Status post 1 1/2 ventricular repair
- 4530 Status post PA, reconstruction (plasty), Main (trunk)
- 4540 Status post PA, reconstruction (plasty), Branch, Central (within the hilar bifurcation)
- 4550 Status post PA, reconstruction (plasty), Branch, Peripheral (at or beyond the hilar bifurcation)
- 4570 Status post DCRV repair
- 4590 Status post Valvuloplasty, Pulmonic
- 6270 Status post Valvuloplasty converted to valve replacement in the same operation, Pulmonic
- 4600 Status post Valve

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	replacement, Pulmonic (PVR)
4630	Status post - Valve excision, Pulmonary (without replacement)
4640	Status post - Valve closure, Semilunar
4650	Status post - Valve surgery, Other, Pulmonic
4610	Status post - Conduit placement, RV to PA
4620	Status post - Conduit placement, LV to PA
5774	Status post - Conduit placement, Ventricle to aorta
5772	Status post - Conduit placement, Other
4580	Status post - Conduit reoperation
4660	Status post - Valvuloplasty, Aortic
6240	Status post - Valvuloplasty converted to valve replacement in the same operation, Aortic
6310	Status post - Valvuloplasty converted to valve replacement in the same operation, Aortic – with Ross procedure
6320	Status post - Valvuloplasty converted to valve replacement in the same operation, Aortic – with Ross- Konno procedure
4670	Status post - Valve replacement, Aortic (AVR)
4680	Status post - Valve replacement, Aortic (AVR), Mechanical
4690	Status post - Valve

- 4690 Status post Valve replacement, Aortic (AVR), Bioprosthetic
- 4700 Status post Valve replacement, Aortic (AVR), Homograft
- 4715 Status post Aortic root replacement, Bioprosthetic

- 4720 Status post Aortic root replacement, Mechanical
- 4730 Status post Aortic root replacement, Homograft
- 4735 Status post Aortic root replacement, Valve sparing
- 4740 Status post Ross procedure
- 4750 Status post Konno procedure
- 4760 Status post Ross-Konno procedure
- 4770 Status post Other annular enlargement procedure
- 4780 Status post Aortic stenosis, Subvalvar, Repair
- 6100 Status post Aortic stenosis, Subvalvar, Repair, With myectomy for IHSS
- 4790 Status post Aortic stenosis, Supravalvar, Repair
- 4800 Status post Valve surgery, Other, Aortic
- 4810 Status post Sinus of Valsalva, Aneurysm repair
- 4820 Status post LV to aorta tunnel repair
- 4830 Status post Valvuloplasty, Mitral
- 6260 Status post Valvuloplasty converted to valve replacement in the same operation, Mitral
- 4840 Status post Mitral stenosis, Supravalvar mitral ring repair
- 4850 Status post Valve replacement, Mitral (MVR)
- 4860 Status post Valve surgery, Other, Mitral
- 4870 Status post Norwood procedure
- 4880 Status post HLHS biventricular repair
- 6755 Status post Conduit insertion right ventricle to pulmonary artery + Intraventricular tunnel left

- 6160 Status post Hybrid Approach "Stage 1", Application of RPA & LPA bands
- 6170 Status post Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA)
- 6180 Status post Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA) + application of RPA & LPA bands
- 6140 Status post Hybrid approach "Stage 2", Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Aortic arch repair (Norwood [Stage 1] + Superior Cavopulmonary anastomosis(es) + PA Debanding)
- 6150 Status post Hybrid approach "Stage 2", Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Without aortic arch repair
- 6760 Status post Hybrid Approach, Transcardiac balloon dilation
- 6770 Status post Hybrid Approach, Transcardiac transcatheter device placement
- 1590 Status post Transplant, Heart
- 1610 Status post Transplant, Heart and lung
- 4910 Status post Partial left ventriculectomy (LV volume reduction surgery) (Batista)
- 4920 Status post Pericardial drainage procedure
- 4930 Status post Pericardiectomy

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4940	Status post - Pericardial procedure, Other	
4950	Status post - Fontan, Atrio- pulmonary connection	
4960	Status post - Fontan, Atrio- ventricular connection	
4970	Status post - Fontan, TCPC, Lateral tunnel, Fenestrated	
4980	Status post - Fontan, TCPC, Lateral tunnel, Nonfenestrated	
5000	Status post - Fontan, TCPC, External conduit, Fenestrated	
5010	Status post - Fontan, TCPC, External conduit, Nonfenestrated	
6780	Status post - Fontan, TCPC, Intra/extracardiac conduit, Fenestrated	
6790	Status post - Fontan, TCPC, Intra/extracardiac conduit, Nonfenestrated	
5025	Status post - Fontan revision or conversion (Re-do Fontan)	
5030	Status post - Fontan, Other	
6340	Status post - Fontan + Atrioventricular valvuloplasty	
5035	Status post - Ventricular septation	
5050	Status post - Congenitally corrected TGA repair, Atrial switch and ASO (double switch)	
5060	Status post - Congenitally corrected TGA repair, Atrial switch and Rastelli	
5070	Status post - Congenitally corrected TGA repair, VSD closure	
5080	Status post - Congenitally corrected TGA repair, VSD closure and LV to PA conduit	
5090	Status post - Congenitally corrected TGA repair, Other	

- 5110 Status post Arterial switch operation (ASO)
- 5120 Status post Arterial switch

operation (ASO) and VSD repair

- 5123 Status post Arterial switch procedure + Aortic arch repair
- 5125 Status post Arterial switch procedure and VSD repair + Aortic arch repair
- 5130 Status post Senning
- 5140 Status post Mustard
- 5145 Status post Atrial baffle procedure, Mustard or Senning revision
- 5150 Status post Rastelli
- 5160 Status post REV
- 6190 Status post Aortic root translocation over left ventricle (Including Nikaidoh procedure)
- 6210 Status post TGA, Other procedures (Kawashima, LV-PA conduit, other)
- 5180 Status post DORV, Intraventricular tunnel repair
- 5200 Status post DOLV repair
- 5210 Status post Coarctation repair, End to end
- 5220 Status post Coarctation repair, End to end, Extended
- 5230 Status post Coarctation repair, Subclavian flap
- 5240 Status post Coarctation repair, Patch aortoplasty
- 5250 Status post Coarctation repair, Interposition graft
- 5260 Status post Coarctation repair, Other
- 5275 Status post Coarctation repair + VSD repair
- 5280 Status post Aortic arch repair
- 5285 Status post Aortic arch repair + VSD repair
- 5290 Status post Coronary artery fistula ligation
- 5291 Status post Anomalous

origin of coronary artery from pulmonary artery repair

- 5300 Status post Coronary artery bypass
- 5305 Status post Anomalous aortic origin of coronary artery (AAOCA) repair
- 5310 Status post Coronary artery procedure, Other
- 5320 Status post Interrupted aortic arch repair
- 5330 Status post PDA closure, Surgical
- 5340 Status post PDA closure, Device
- 5360 Status post Vascular ring repair
- 5365 Status post Aortopexy
- 5370 Status post Pulmonary artery sling repair
- 5380 Status post Aortic aneurysm repair
- 5390 Status post Aortic dissection repair
- 5400 Status post Lung biopsy
- 1600 Status post Transplant, Lung(s)
- 5420 Status post Lung procedure, Other
- 5440 Status post Tracheal procedure
- 6800 Status post Muscle flap, Trunk (i.e., intercostal, pectus, or serratus muscle)
- 6810 Status post Muscle flap, Trunk (i.e. latissimus dorsi)
- 6820 Status post Removal, Sternal wire
- 6830 Status post Rib excision, Complete
- 6840 Status post Rib excision, Partial
- 6850 Status post Sternal fracture open treatment
- 6860 Status post Sternal resection,

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	Radical resection of sternum	
6870	Status post - Sternal resection, Radical resection of sternum with mediastinal lymphadenectomy	
6880	Status post - Tumor of chest wall - Excision including ribs	
6890	Status post - Tumor of chest wall - Excision including ribs, With reconstruction	
6900	Status post - Tumor of soft tissue of thorax - Excision of deep subfascial or intramuscular tumor	
6910	Status post - Tumor of soft tissue of thorax - Excision of subcutaneous tumor	
6920	Status post - Tumor of soft tissue of thorax - Radical resection	
6930	Status post - Hyoid myotomy and suspension	
6940	Status post - Muscle flap, Neck	
6950	Status post - Procedure on neck	
6960	Status post - Tumor of soft tissue of neck - Excision of deep subfascial or intramuscular tumor	
6970	Status post - Tumor of soft tissue of neck - Excision of subcutaneous tumor	
6980	Status post - Tumor of soft tissue of neck - Radical resection	
6990	Status post - Pectus bar removal	
7005	Status post - Pectus bar repositioning	
7010	Status post - Pectus repair, Minimally invasive repair (Nuss), With thoracoscopy	
7020	Status post - Pectus repair,	

- 7020 Status post Pectus repair, Minimally invasive repair (Nuss), Without thoracoscopy
- 7030 Status post Pectus repair,

Open repair

- 7040 Status post Division of scalenus anticus, With resection of a cervical rib
- 7050 Status post Division of scalenus anticus, Without resection of a cervical rib
- 7060 Status post Rib excision, Excision of cervical rib
- 7070 Status post Rib excision, Excision of cervical rib, With sympathectomy
- 7080 Status post Rib excision, Excision of first rib
- 7090 Status post Rib excision, Excision of first rib, With sympathectomy
- 7100 Status post Procedure on thorax
- 5450 Status post Pacemaker implantation, Permanent
- 5460 Status post Pacemaker procedure
- 6350 Status post Explantation of pacing system
- 5470 Status post ICD (AICD) implantation
- 5480 Status post ICD (AICD) ([automatic] implantable cardioverter defibrillator) procedure
- 5490 Status post Arrhythmia surgery - atrial, Surgical Ablation
- 5500 Status post Arrhythmia surgery - ventricular, Surgical Ablation
- 6500 Status post Cardiovascular catheterization procedure, Diagnostic
- 6520 Status post Cardiovascular catheterization procedure, Diagnostic, Angiographic data obtained
- 6550 Status post Cardiovascular catheterization procedure, Diagnostic,

Electrophysiology alteration 6540 Status post - Cardiovascular catheterization procedure, Diagnostic, Hemodynamic alteration 6510 Status post - Cardiovascular catheterization procedure, Diagnostic, Hemodynamic data obtained 6530 Status post - Cardiovascular catheterization procedure, Diagnostic, Transluminal test occlusion 6410 Status post - Cardiovascular catheterization procedure, Therapeutic 6670 Status post - Cardiovascular catheterization procedure, Therapeutic, Adjunctive therapy 6570 Status post - Cardiovascular catheterization procedure, Therapeutic, Balloon dilation 6590 Status post - Cardiovascular catheterization procedure, Therapeutic, Balloon valvotomy 6600 Status post - Cardiovascular catheterization procedure, Therapeutic, Coil implantation 6610 Status post - Cardiovascular catheterization procedure, Therapeutic, Device implantation 7110 Status post - Cardiovascular catheterization procedure, Therapeutic, Device implantation attempted 6690 Status post - Cardiovascular catheterization procedure, Therapeutic, Electrophysiological ablation Status post - Cardiovascular 7120 catheterization procedure, Therapeutic, Intravascular foreign body removal 6640 Status post - Cardiovascular catheterization procedure,

Therapeutic, Perforation (establishing interchamber and/or intervessel communication)

- 6580 Status post Cardiovascular catheterization procedure, Therapeutic, Septostomy
- 6620 Status post Cardiovascular catheterization procedure, Therapeutic, Stent insertion
- 6630 Status post Cardiovascular catheterization procedure, Therapeutic, Stent re-dilation
- 6650 Status post Cardiovascular catheterization procedure, Therapeutic, Transcatheter Fontan completion
- 6660 Status post Cardiovascular catheterization procedure, Therapeutic, Transcatheter implantation of valve
- 5590 Status post Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)
- 5600 Status post Shunt, Systemic to pulmonary, Central (shunt from aorta)
- 7130 Status post Shunt, Systemic to pulmonary, Central (shunt from aorta), Central shunt with an end-to-side connection between the transected main pulmonary artery and the side of the ascending aorta (i.e. Mee shunt)
- 5610 Status post Shunt, Systemic to pulmonary, Other
- 5630 Status post Shunt, Ligation and takedown
- 6095 Status post Shunt, Reoperation
- 5640 Status post PA banding (PAB)
- 5650 Status post PA debanding
- 5660 Status post Damus-Kaye-Stansel procedure (DKS)

(creation of AP anastomosis without arch reconstruction)

- 5670 Status post Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn)
- 5680 Status post Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn)
- 5690 Status post Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn)
- 5700 Status post HemiFontan
- 6330 Status post Superior cavopulmonary anastomosis(es) (Glenn or HemiFontan) + Atrioventricular valvuloplasty
- 6130 Status post Superior Cavopulmonary anastomosis(es) + PA reconstruction
- 7140 Status post Hepatic vein to azygous vein connection, Direct
- 7150 Status post Hepatic vein to azygous vein connection, Interposition graft
- 7160 Status post Kawashima operation (superior cavopulmonary connection in setting of interrupted IVC with azygous continuation)
- 5710 Status post Palliation, Other
- 6360 Status post ECMO cannulation
- 6370 Status post ECMO decannulation
- 5910 Status post ECMO procedure
- 5900 Status post Intraaortic balloon pump (IABP) insertion
- 5920 Status post Right/left heart assist device procedure
- 6390 Status post VAD

explantation

- 6380 Status post VAD implantation
- 7170 Status post VAD change out
- 6420 Status post -Echocardiography procedure, Sedated transesophageal echocardiogram
- 6430 Status post -Echocardiography procedure, Sedated transthoracic echocardiogram
- 6435 Status post Noncardiovascular, Non-thoracic procedure on cardiac patient with cardiac anesthesia
- 6440 Status post Radiology procedure on cardiac patient, Cardiac Computerized Axial Tomography (CT Scan)
- 6450 Status post Radiology procedure on cardiac patient, Cardiac Magnetic Resonance Imaging (MRI)
- 6460 Status post Radiology procedure on cardiac patient, Diagnostic radiology
- 6470 Status post Radiology procedure on cardiac patient, Non-Cardiac Computerized Tomography (CT) on cardiac patient
- 6480 Status post Radiology procedure on cardiac patient, Non-cardiac Magnetic Resonance Imaging (MRI) on cardiac patient
- 6490 Status post Radiology procedure on cardiac patient, Therapeutic radiology
- 5720 Status post Aneurysm, Ventricular, Right, Repair
- 5730 Status post Aneurysm, Ventricular, Left, Repair
- 5740 Status post Aneurysm, Pulmonary artery, Repair
- 5760 Status post Cardiac tumor

resection

- 5780 Status post Pulmonary AV fistula repair/occlusion
- 5790 Status post Ligation, Pulmonary artery
- 5802 Status post Pulmonary embolectomy, Acute pulmonary embolus
- 5804 Status post Pulmonary embolectomy, Chronic pulmonary embolus
- 5810 Status post Pleural drainage procedure
- 5820 Status post Pleural procedure, Other
- 5830 Status post Ligation, Thoracic duct
- 5840 Status post Decortication
- 5850 Status post Esophageal procedure
- 5860 Status post Mediastinal procedure
- 5870 Status post Bronchoscopy
- 5880 Status post Diaphragm plication
- 5890 Status post Diaphragm procedure, Other
- 5930 Status post VATS (videoassisted thoracoscopic surgery)
- 5940 Status post Minimally invasive procedure
- 5950 Status post Bypass for noncardiac lesion
- 5960 Status post Delayed sternal closure
- 5970 Status post Mediastinal exploration
- 5980 Status post Sternotomy wound drainage
- 7180 Status post Intravascular stent removal
- 5990 Status post Thoracotomy, Other
- 6000 Status post Cardiotomy,

ere / taut out		gory Datababb			101010	1. 2.01
		Other				
	6010	Status post - Cardiac procedure, Other				
	6020	Status post - Thoracic and/or mediastinal procedure, Other				
	6030	Status post - Peripheral vascular procedure, Other				
	6040	Status post - Miscellaneous procedure, Other				
	11777	Status post - Other procedure				
Long Name:	Other	Card-Congenital Diagnosis 3			SeqNo:	4510
Short Name:	OCar	CongDiag3			Core:	Yes
Section Name	: Other	Cardiac Procedures			Harvest:	Yes
DBTableNam	e Adult	Data				
Definition: 1	Indicate	the third of the three most signi	ficant congenit	al diagnoses.		
LowValue:		UsualRangeLow:				
HighValue:		UsualRangeHigh:				
	Name: (Other Card-Congenital	Format:	Text (categorical val	lues specified by	STS)
ParentShortN	ame: C	CarCong	DataLength:			
ParentValue:		"Yes"	Data Source:	User		
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1141 VCS		Value:	Definition:			
	<u>code.</u> 10	PFO		eratrial communicatio	n (or potential	
	10		communica (fossa oval primary atr limbus with	ation) confined to the r is) characterized by no ial septum (septum prin n no deficiency of the interatrial fold).	region of the ova deficiency of the imum) and a nor	ne mal
	20	ASD, Secundum	interatrial of oval fossa deficiency primum) bu	al cardiac malformatic communication confine (fossa ovalis), most co of the primary atrial so at deficiency of the sep nteratrial fold) may als	ed to the region of mmonly due to a eptum (septum ptum secundum	of the
	30	ASD, Sinus venosus	caval vein that overric	al cardiac malformatic (vena cava) and/or pul les the atrial septum of pteratrial fold) produci	monary vein (or r the septum secu	veins) undum

(superior interatrial fold) producing an interatrial or anomalous venoatrial communication Although the term sinus venosus atrial septal defect is commonly used, the lesion is more properly termed a sinus venosus communication because, while it functions as an

		interatrial communication, this lesion is not a defect of the atrial septum.
40	ASD, Coronary sinus	A congenital cardiac malformation in which there is a deficiency of the walls separating the left atrium from the coronary sinus allowing interatrial communication through the coronary sinus ostium.
50	ASD, Common atrium (single atrium)	Complete absence of the interatrial septum. "Single atrium" is applied to defects with no associated malformation of the atrioventricular valves. "Common atrium" is applied to defects with associated malformation of the atrioventricular valves.
2150	ASD, Postoperative interatrial communication	A surgically created communication between the atria.
71	VSD, Type 1 (Subarterial) (Supracristal) (Conal septal defect) (Infundibular)	A VSD that lies beneath the semilunar valve(s) in the conal or outlet septum.
73	VSD, Type 2 (Perimembranous) (Paramembranous) (Conoventricular)	A VSD that is confluent with and involves the membranous septum and is bordered by an atrioventricular valve, not including type 3 VSDs.
75	VSD, Type 3 (Inlet) (AV canal type)	A VSD that involves the inlet of the right ventricular septum immediately inferior to the AV valve apparatus.
77	VSD, Type 4 (Muscular)	A VSD completely surrounded by muscle.
79	VSD, Type: Gerbode type (LV-RA communication)	A rare form of VSD in which the defect is at the membranous septum; the communication is between the left ventricle and right atrium.
80	VSD, Multiple	More than one VSD exists. Each individual VSD may be coded separately to specify the individual VSD types.
100	AVC (AVSD), Complete (CAVSD)	Indicate if the patient has the diagnosis of "AVC (AVSD), Complete (CAVSD)". An "AVC (AVSD), Complete (CAVSD)" is a "complete atrioventricular canal" or a "complete atrioventricular septal defect" and occurs in a heart with the phenotypic feature of a common atrioventricular junction. An "AVC (AVSD), Complete (CAVSD)" is defined as an AVC with a common AV valve and both a defect in the atrial septum just above the AV valve (ostium primum ASD [a usually crescent-shaped ASD in the inferior (posterior) portion of the atrial septum just above the AV valve]) and a defect in the ventricular septum just below the AV valve. The AV valve is one valve that bridges both the right and left sides of the heart. Balanced AVC is an AVC with two essentially appropriately sized ventricles. Unbalanced AVC is an AVC defect with two ventricles in which one ventricle is inappropriately small. Such a patient may be thought to be a candidate for biventricular repair, or, alternatively, may be managed as having a functionally univentricular heart. AVC lesions with unbalanced

ventricles so severe as to preclude biventricular repair

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should be classified as single ventricles. Rastelli type A: The common superior (anterior) bridging leaflet is effectively split in two at the septum. The left superior (anterior) leaflet is entirely over the left ventricle and the right superior (anterior) leaflet is similarly entirely over the right ventricle. The division of the common superior (anterior) bridging leaflet into left and right components is caused by extensive attachment of the superior (anterior) bridging leaflet to the crest of the ventricular septum by chordae tendineae. Rastelli type B: Rare, involves anomalous papillary muscle attachment from the right side of the ventricular septum to the left side of the common superior (anterior) bridging leaflet. Rastelli type C: Marked bridging of the ventricular septum by the superior (anterior) bridging leaflet, which floats freely (often termed a "free-floater") over the ventricular septum without chordal attachment to the crest of the ventricular septum.

An AVC with two distinct left and right AV valve orifices but also with both an ASD just above and a VSD just below the AV valves. While these AV valves in the intermediate form do form two separate orifices they remain abnormal valves. The VSD is often restrictive.

An AVC with an ostium primum ASD (a usually crescent-shaped ASD in the inferior (posterior) portion of the atrial septum just above the AV valve) and varying degrees of malformation of the left AV valve leading to varying degrees of left AV valve regurgitation. No VSD is present.

Indicate if the patient has the diagnosis of "AP window (aortopulmonary window)". An "AP window (aortopulmonary window)" is defined as a defect with side-to-side continuity of the lumens of the aorta and pulmonary arterial tree, which is distinguished from common arterial trunk (truncus arteriosus) by the presence of two arterial valves or their atretic remnants. (In other words, an aortopulmonary window is a communication between the main pulmonary artery and ascending aorta in the presence of two separate semilunar [pulmonary and aortic] valves. The presence of two separate semilunar valves distinguishes AP window from truncus arteriosus. Type 1 proximal defect: AP window located just above the sinus of Valsalva, a few millimeters above the semilunar valves, with a superior rim but little inferior rim separating the AP window from the semilunar valves. Type 2 distal defect: AP window located in the uppermost portion of the ascending aorta, with a well-formed inferior rim but little superior rim. Type 3 total defect: AP window involving the majority of the ascending aorta, with little superior and inferior rims. The intermediate type of AP window is similar to the total defect but with adequate

110 AVC (AVSD), Intermediate (transitional)

- 120 AVC (AVSD), Partial (incomplete) (PAVSD) (ASD, primum)
- 140 AP window (aortopulmonary window)

170

2010

Truncal valve insufficiency

Truncus arteriosus +

Interrupted aortic arch

ş	perior and inferior rims. In the event of AP window
	ccurring in association with interrupted aortic arch,
	ode "Interrupted aortic arch + AP window
(ortopulmonary window)", and then use additional
(secondary) diagnostic codes to describe the interrupted
	ortic arch and AP window separately to provide further
(ocumentation about the individual interrupted arch and
1	P window types.)

- Pulmonary artery origin from ascending aorta (hemitruncus) One pulmonary artery arises from the ascending aorta and the other pulmonary artery arises from the right ventricle. DOES NOT include origin of the right or left pulmonary artery from the innominate artery or the aortic arch via a patent ductus arteriosus or collateral
- 160 Truncus arteriosus Indicate if the patient has the diagnosis of "Truncus

artery.

arteriosus". A truncus arteriosus is also known as a common arterial trunk and is defined as a heart in which a single arterial trunk arises from the heart, giving origin to the coronary arteries, the pulmonary arteries, and the systemic arterial circulation. In the majority of instances there is a ventricular septal defect and a single semilunar valve which may contain two, three, four, or more leaflets and is occasionally dysplastic. Often, the infundibular septum is virtually absent superiorly. In most instances the truncal valve overrides the true interventricular septum (and thus both ventricles), but very rarely the truncal valve may override the right ventricle entirely. In such instances, there may be no ventricular septal defect or a very small ventricular septal defect, in which case the left ventricle and mitral valve may be extremely hypoplastic.

Functional abnormality - insufficiency - of the truncal valve. May be further subdivided into grade of insufficiency (I, II, III, IV or mild, moderate, severe).

Indicate if the patient has the diagnosis of "Truncus arteriosus + Interrupted aortic arch". {A truncus arteriosus is also known as a common arterial trunk and is defined as a heart in which a single arterial trunk arises from the heart, giving origin to the coronary arteries, the pulmonary arteries, and the systemic arterial circulation. In the majority of instances there is a ventricular septal defect and a single semilunar valve which may contain two, three, four, or more leaflets and is occasionally dysplastic. The infundibular septum is virtually absent superiorly. In most instances the truncal valve overrides the true interventricular septum (and thus both ventricles), but very rarely the truncal valve may override the right ventricle entirely. If in such case there is no ventricular septal defect, then the left ventricle and mitral valve may be extremely hypoplastic.} {Interrupted aortic arch is defined as the loss of luminal continuity between the ascending and

descending aorta. In most cases blood flow to the descending thoracic aorta is through a PDA, and there is a large VSD. Arch interruption is further defined by site of interruption. In type A, interruption is distal to the left subclavian artery; in type B interruption is between the left carotid and left subclavian arteries; and in type C interruption occurs between the innominate and left carotid arteries.}

- Partial anomalous pulmonary Some, but not all of the pulmonary veins connect to the right atrium or to one or more of its venous tributaries. venous connection (PAPVC) This definition excludes sinus venosus defects with
 - normally connected but abnormally draining pulmonary veins (the pulmonary veins may drain abnormally into the right atrium via the atrial septal defect).

The right pulmonary vein(s) connect anomalously to the inferior vena cava or to the right atrium at the insertion of the inferior vena cava. The descending vertical vein resembles a scimitar (Turkish sword) on frontal chest xray. Frequently associated with: hypoplasia of the right lung with bronchial anomalies; dextroposition and/or dextrorotation of the heart; hypoplasia of the right pulmonary artery; and anomalous subdiaphragmatic systemic arterial supply to the lower lobe of the right lung directly from the aorta or its main branches.

All of the pulmonary veins connect anomalously with the right atrium or to one or more of its venous tributaries. None of the pulmonary veins connect normally to the left atrium. In Type 1 (supracardiac) TAPVC, the anomalous connection is at the supracardiac level and can be obstructed or nonobstructed.

All of the pulmonary veins connect anomalously with the right atrium or to one or more of its venous tributaries. None of the pulmonary veins connect normally to the left atrium. In Type 2 (cardiac) TAPVC, the anomalous connection is to the heart, either to the right atrium directly or to the coronary sinus. Most patients with type 2 TAPVC are nonobstructed.

All of the pulmonary veins connect anomalously with the right atrium or to one or more of its venous tributaries. None of the pulmonary veins connect normally to the left atrium. In Type 3 (infracardiac) TAPVC, the anomalous connection is at the infracardiac level (below the diaphragm), with the pulmonary venous return entering the right atrium ultimately via the inferior vena cava. In the vast majority of patients infracardiac TAPVC is obstructed.

All of the pulmonary veins connect anomalously with the right atrium or to one or more of its venous tributaries. None of the pulmonary veins connect

- 180
- 190 Partial anomalous pulmonary venous connection (PAPVC), scimitar

- 200 Total anomalous pulmonary venous connection (TAPVC), Type 1 (supracardiac)
- 210 Total anomalous pulmonary venous connection (TAPVC), Type 2 (cardiac)
- 220 Total anomalous pulmonary venous connection (TAPVC), Type 3 (infracardiac)
- 230 Total anomalous pulmonary venous connection (TAPVC), Type 4 (mixed)

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		normally to the left atrium. In Type 4 (mixed) TAPVC, the anomalous connection is at two or more of the above levels (supracardiac, cardiac, infracardiac) and can be obstructed or nonobstructed.
250	Cor triatriatum	In the classic form of cor triatriatum a membrane divides the left atrium (LA) into a posterior accessory chamber that receives the pulmonary veins and an anterior chamber (LA) that communicates with the mitral valve. In differentiating cor triatriatum from supravalvar mitral ring, in cor triatriatum the posterior compartment contains the pulmonary veins while the anterior contains the left atrial appendage and the mitral valve orifice; in supravalvar mitral ring, the anterior compartment contains only the mitral valve orifice. Cor triatriatum dexter (prominent venous valve producing obstruction of the IVC and tricuspid valve) is to be coded as a systemic venous obstruction, not as a form of cor triatriatum.
260	Pulmonary venous stenosis	Any pathologic narrowing of one or more pulmonary veins. Can be further subdivided by etiology (congenital, acquired-postoperative, acquired- nonpostoperative) and extent of stenosis (diffusely hypoplastic, long segment focal/tubular stenosis, discrete stenosis).
270	Systemic venous anomaly	Anomalies of the systemic venous system (superior vena cava (SVC), inferior vena cava (IVC), brachiocephalic veins (often the innominate vein), azygos vein, coronary sinus, levo-atrial cardinal vein) arising from one or more anomalies of origin, duplication, course, or connection. Examples include abnormal or absent right SVC with LSVC, bilateral SVC, interrupted right or left IVC, azygos continuation of IVC, and anomalies of hepatic drainage. Bilateral SVC may have, among other configurations: 1) RSVC draining to the RA and the LSVC to the LA with completely unroofed coronary sinus, 2) RSVC draining to the RA and LSVC to the coronary sinus which drains (normally) into the RA, or 3) RSVC to the coronary sinus which drains (abnormally) into the LA and LSVC to LA. Anomalies of the inferior vena caval system include, among others: 1) left IVC to LA, 2) biatrial drainage, or 3) interrupted IVC (left or right) with azygos continuation to an LSVC or RSVC.
280	Systemic venous obstruction	Obstruction of the systemic venous system (superior vena cava (SVC), inferior vena cava (IVC), brachiocephalic veins (often the innominate vein), azygos vein, coronary sinus, levo-atrial cardinal vein) arising from congenital or acquired stenosis or occlusion. Cor triatriatum dexter (prominent venous valve producing obstruction of the IVC and tricuspid valve) is to be coded as a systemic venous obstruction, not as a form of cor triatriatum.

290 TOF

Indicate if the patient has the diagnosis of "TOF". Only use this diagnosis if it is NOT known if the patient has one of the following four more specific diagnoses: (1). "TOF, Pulmonary stenosis", (2). "TOF, AVC (AVSD)", (3). "TOF, Absent pulmonary valve", (4). "Pulmonary atresia, VSD (Including TOF, PA)", or (5). "Pulmonary atresia, VSD-MAPCA (pseudotruncus)". {"TOF" is "Tetralogy of Fallot" and is defined as a group of malformations with biventricular atrioventricular alignments or connections characterized by anterosuperior deviation of the conal or outlet septum or its fibrous remnant, narrowing or atresia of the pulmonary outflow, a ventricular septal defect of the malalignment type, and biventricular origin of the aorta. Hearts with tetralogy of Fallot will always have a ventricular septal defect, narrowing or atresia of the pulmonary outflow, and aortic override; hearts with tetralogy of Fallot will most often have right ventricular hypertrophy.} (An additional, often muscular [Type 4] VSD may be seen with TOF and should be coded separately as a secondary diagnosis as "VSD, Type 4 (Muscular)". Pulmonary arteries may be diminutive or there may be an absent left or right pulmonary artery; additional coding for pulmonary artery and/or branch pulmonary artery stenoses may be found under RVOT obstruction. Abnormal coronary artery distribution may also be associated with tetralogy of Fallot and may be coded separately under coronary artery anomalies. The presence of associated anomalies such as additional VSD, atrial septal defect, right aortic arch, left superior vena cava, and coronary artery anomalies must be subspecified as an additional or secondary diagnosis under the primary TOF diagnosis. TOF with absent pulmonary valve or TOF with associated complete atrioventricular canal are NOT to be secondary diagnoses under TOF - they are separate entities and should be coded as such. Controversy surrounds the differentiation between TOF and double outlet right ventricle [DORV]; in the nomenclature used here. DORV is defined as a type of ventriculoarterial connection in which both great vessels arise predominantly from the right ventricle. TOF with pulmonary atresia is to be coded under "Pulmonary atresia-VSD.")

2140 TOF, Pulmonary stenosis Indicate if the patient has the diagnosis of "TOF, Pulmonary stenosis". Use this diagnosis if the patient has tetralogy of Fallot and pulmonary stenosis. Do not use this diagnosis if the patient has tetralogy of Fallot and pulmonary atresia. Do not use this diagnosis if the patient has tetralogy of Fallot and absent pulmonary valve. Do not use this diagnosis if the patient has tetralogy of Fallot and atrioventricular canal. {Tetralogy of Fallot is defined as a group of

		malformations with biventricular atrioventricular alignments or connections characterized by anterosuperior deviation of the conal or outlet septum or its fibrous remnant, narrowing or atresia of the pulmonary outflow, a ventricular septal defect of the malalignment type, and biventricular origin of the aorta. Hearts with tetralogy of Fallot will always have a ventricular septal defect, narrowing or atresia of the pulmonary outflow, and aortic override; hearts with tetralogy of Fallot will most often have right ventricular hypertrophy. (An additional, often muscular [Type 4] VSD may be seen with TOF and should be coded separately as a secondary diagnosis as "VSD, Type 4 (Muscular)". Pulmonary arteries may be diminutive or there may be an absent left or right pulmonary artery; additional coding for pulmonary artery and/or branch pulmonary artery stenoses may be found under RVOT obstruction. Abnormal coronary artery distribution may also be associated with tetralogy of Fallot and may be coded separately under coronary artery anomalies. The presence of associated anomalies such as additional VSD, atrial septal defect, right aortic arch, left superior vena cava, and coronary artery anomalies must be subspecified as an additional or secondary diagnosis under the primary TOF diagnosis. TOF with absent pulmonary valve or TOF with associated complete atrioventricular canal are NOT to be secondary diagnoses under TOF - they are separate entities and should be coded as such. Controversy surrounds the differentiation between TOF and double outlet right ventricle [DORV]; in the nomenclature used here, DORV is defined as a type of ventriculoarterial connection in which both great vessels arise predominantly from the right ventricle. TOF with pulmonary atresia is to be coded under "Pulmonary atresia-VSD.")}
300	TOF, AVC (AVSD)	TOF with complete common atrioventricular canal defect is a rare variant of common atrioventricular canal defect with the associated conotruncal abnormality of TOF. The anatomy of the endocardial cushion defect is that of Rastelli type C in almost all cases.
310	TOF, Absent pulmonary valve	Indicate if the patient has the diagnosis of "TOF, Absent pulmonary valve". "TOF, Absent pulmonary valve" is "Tetralogy of Fallot with Absent pulmonary valve" and is defined as a malformation with all of the morphologic characteristics of tetralogy of Fallot (anterosuperior deviation of the conal or outlet septum or its fibrous remnant, narrowing of the pulmonary outflow, a ventricular septal defect of the malalignment type, and biventricular origin of the aorta), in which the ventriculo-arterial junction of the right ventricle with the main pulmonary artery features an atypical valve with rudimentary cusps that lack the anatomical semi-

		 lunar features of normal valve cusps and which functionally do not achieve central coaptation. The physiologic consequence is usually a combination of variable degrees of both stenosis and regurgitation of the pulmonary valve. A developmental accompaniment of this anatomy and physiology is dilation of the main pulmonary artery and central right and left pulmonary arteries, which when extreme, is associated with abnormal arborization of lobar and segmental pulmonary artery branches and with compression of the trachea and mainstem bronchi. One theory holds that absence of the arterial duct or ductal ligament (which is a nearly constant finding in cases of tetralogy of Fallot with absent pulmonary valve) in combination with pulmonary artery dilation during fetal development. (Tetralogy of Fallot with Absent Pulmonary Valve Syndrome is a term frequently used to describe the clinical presentation when it features both circulatory alterations and respiratory distress secondary to airway compression.)
320	Pulmonary atresia	Pulmonary atresia defects which do not readily fall into pulmonary atresia-intact ventricular septum or pulmonary atresia-VSD (with or without MAPCAs) categories. These may include complex lesions in which pulmonary atresia is a secondary diagnosis, for example, complex single ventricle malformations with associated pulmonary atresia.
330	Pulmonary atresia, IVS	Pulmonary atresia (PA) and intact ventricular septum (IVS) is a duct-dependent congenital malformation that forms a spectrum of lesions including atresia of the pulmonary valve, a varying degree of right ventricle and tricuspid valve hypoplasia, and anomalies of the coronary circulation. An RV dependent coronary artery circulation is present when coronary artery fistulas (coronary sinusoids) are associated with a proximal coronary artery stenosis. Associated Ebstein's anomaly of the tricuspid valve can be present; the tricuspid diameter is enlarged and the prognosis is poor.
340	Pulmonary atresia, VSD (Including TOF, PA)	Pulmonary atresia (PA) and ventricular septal defect (VSD) is a heterogeneous group of congenital cardiac malformations in which there is lack of luminal continuity and absence of blood flow from either ventricle (in cases with ventriculo-arterial discordance) and the pulmonary artery, in a biventricular heart that has an opening or a hole in the interventricular septum (VSD). The malformation forms a spectrum of lesions including tetralogy of Fallot with pulmonary atresia. Tetralogy of Fallot with PA is a specific type of PA- VSD where the intracardiac malformation is more accurately defined (extreme underdevelopment of the RV infundibulum with marked anterior and leftward

displacement of the infundibular septum often fused with the anterior wall of the RV resulting in complete obstruction of blood flow into the pulmonary artery and associated with a large outlet, subaortic ventricular septal defect). In the vast majority of cases of PA-VSD the intracardiac anatomy is that of TOF. The pulmonary circulation in PA-VSD is variable in terms of origin of blood flow, presence or absence of native pulmonary arteries, presence or absence of major aortopulmonary collateral arteries (MAPCA(s)), and distal distribution (pulmonary parenchymal segment arborization) abnormalities. Native pulmonary arteries may be present or absent. If MAPCAs are present this code should not be used; instead, Pulmonary atresia, VSD-MAPCA (pseudotruncus) should be used.

MAPCA(s) are large and distinct arteries, highly variable in number, that usually arise from the descending thoracic aorta, but uncommonly may originate from the aortic arch or the subclavian, carotid or even the coronary arteries. MAPCA(s) may be associated with present or absent native pulmonary arteries. If present, the native pulmonary arteries may be hypoplastic, and either confluent or nonconfluent. Systemic pulmonary collateral arteries have been categorized into 3 types based on their site of origin and the way they connect to the pulmonary circulation: direct aortopulmonary collaterals, indirect aortopulmonary collaterals, and true bronchial arteries. Only the first two should be considered MAPCA(s). If MAPCA(s) are associated with PA-VSD or TOF, PA this code should be used.

Rarely MAPCA(s) may occur in patents who do not have PA-VSD, but have severe pulmonary stenosis. The intracardiac anatomy in patients who have MAPCA(s) without PA should be specifically coded in each case as well.

Indicate if the patient has the diagnosis of "Ebstein's anomaly". Ebstein's anomaly is a malformation of the tricuspid valve and right ventricle that is characterized by a spectrum of several features: (1) incomplete delamination of tricuspid valve leaflets from the myocardium of the right ventricle; (2) downward (apical) displacement of the functional annulus; (3) dilation of the "atrialized" portion of the right ventricle with variable degrees of hypertrophy and thinning of the wall; (4) redundancy, fenestrations, and tethering of the anterior leaflets; and (5) dilation of the right atrioventricular junction (the true tricuspid annulus). These anatomical and functional abnormalities cause tricuspid regurgitation (and rarely tricuspid stenosis) that results in right atrial and right ventricular dilation and atrial and ventricular arrhythmias. With increasing degrees of anatomic severity of malformation, the

350 Pulmonary atresia, VSD-MAPCA

360 MAPCA(s) (major aortopulmonary collateral[s]) (without PA-VSD)

370 Ebstein's anomaly

fibrous transformation of leaflets from their muscular precursors remains incomplete, with the septal leaflet being most severely involved, the posterior leaflet less severely involved, and the anterior leaflet usually the least severely involved. Associated cardiac anomalies include an interatrial communication, the presence of accessory conduction pathways often associated with Wolff-Parkinson-White syndrome, and dilation of the right atrium and right ventricle in patients with severe Ebstein's anomaly. (Varying degrees of right ventricular outflow tract obstruction may be present. including pulmonary atresia in some cases. Such cases of Ebstein's anomaly with pulmonary atresia should be coded with a Primary Diagnosis of "Ebstein's anomaly", and a Secondary Diagnosis of "Pulmonary atresia".) (Some patients with atrioventricular discordance and ventriculoarterial discordance in situs solitus [congenitally corrected transposition] have an Ebstein-like deformity of the left-sided morphologically tricuspid valve. The nature of the displacement of the septal and posterior leaflets is similar to that in rightsided Ebstein's anomaly in patients with atrioventricular concordance and ventriculoarterial concordance in situs solitus. These patients with "Congenitally corrected TGA" and an Ebstein-like deformity of the left-sided morphologically tricuspid valve should be coded with a Primary Diagnosis of "Congenitally corrected TGA", and a Secondary Diagnosis of "Ebstein's anomaly".)

- 380 Tricuspid regurgitation, non-Ebstein's related Non-Ebstein's tricuspid regurgitation may be due to congenital factors (primary annular dilation, prolapse, leaflet underdevelopment, absent papillary
 - muscle/chordae) or acquired (post cardiac surgery or secondary to rheumatic fever, endocarditis, trauma, tumor, cardiomyopathy, iatrogenic or other causes).

Tricuspid stenosis may be due to congenital factors (valvar hypoplasia, abnormal subvalvar apparatus, double-orifice valve, parachute deformity) or acquired (post cardiac surgery or secondary to carcinoid, rheumatic fever, tumor, systemic disease, iatrogenic, or other causes).

Tricuspid regurgitation present with tricuspid stenosis may be due to congenital factors or acquired.

Tricuspid valve pathology not otherwise specified in diagnosis definitions 370, 380, 390 and 400.

Pulmonary stenosis, Valvar ranges from critical neonatal pulmonic valve stenosis with hypoplasia of the right ventricle to valvar pulmonary stenosis in the infant, child, or adult, usually better tolerated but potentially associated with infundibular stenosis. Pulmonary branch hypoplasia can be associated. Only 10% of neonates with Pulmonary stenosis, Valvar with intact ventricular septum have RV-to-coronary artery

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Tricuspid stenosis

tricuspid stenosis

Tricuspid valve, Other

Tricuspid regurgitation and

Pulmonary stenosis, Valvar

		fistula(s). An RV dependent coronary artery circulation is present when coronary artery fistulas (coronary sinusoids) are associated with a proximal coronary artery stenosis; this occurs in only 2% of neonates with Pulmonary stenosis, Valvar with IVS.
430	Pulmonary artery stenosis (hypoplasia), Main (trunk)	Indicate if the patient has the diagnosis of "Pulmonary artery stenosis (hypoplasia), Main (trunk)". "Pulmonary artery stenosis (hypoplasia), Main (trunk)" is defined as a congenital or acquired anomaly with pulmonary trunk (main pulmonary artery) narrowing or hypoplasia. The stenosis or hypoplasia may be isolated or associated with other cardiac lesions. Since the narrowing is distal to the pulmonic valve, it may also be known as supravalvar pulmonary stenosis.
440	Pulmonary artery stenosis, Branch, Central (within the hilar bifurcation)	Indicate if the patient has the diagnosis of "Pulmonary artery stenosis, Branch, Central (within the hilar bifurcation)". "Pulmonary artery stenosis, Branch, Central (within the hilar bifurcation)" is defined as a congenital or acquired anomaly with central pulmonary artery branch (within the hilar bifurcation involving the right or left pulmonary artery, or both) narrowing or hypoplasia. The stenosis or hypoplasia may be isolated or associated with other cardiac lesions. Coarctation of the pulmonary artery is related to abnormal extension of the ductus arteriosus into a pulmonary branch, more frequently the left branch.
450	Pulmonary artery stenosis, Branch, Peripheral (at or beyond the hilar bifurcation)	Indicate if the patient has the diagnosis of "Pulmonary artery stenosis, Branch, Peripheral (at or beyond the hilar bifurcation)". "Pulmonary artery stenosis, Branch, Peripheral (at or beyond the hilar bifurcation)" is defined as a congenital or acquired anomaly with peripheral pulmonary artery narrowing or hypoplasia (at or beyond the hilar bifurcation). The stenosis or hypoplasia may be isolated or associated with other cardiac lesions.
470	Pulmonary artery, Discontinuous	Indicate if the patient has the diagnosis of "Pulmonary artery, Discontinuous". Pulmonary artery, Discontinuous" is defined as a congenital or acquired anomaly with discontinuity between the branch pulmonary arteries or between a branch pulmonary artery and the main pulmonary artery trunk.
490	Pulmonary stenosis, Subvalvar	Subvalvar (infundibular) pulmonary stenosis is a narrowing of the outflow tract of the right ventricle below the pulmonic valve. It may be due to a localized fibrous diaphragm just below the valve, an obstructing muscle bundle or to a long narrow fibromuscular channel.
500	DCRV	The double chambered right ventricle is characterized by a low infundibular (subvalvar) stenosis rather than the rare isolated infundibular stenosis that develops more superiorly in the infundibulum, and is often

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gery Database	Version: 2.81
	associated with one or several closing VSDs. In some cases, the VSD is already closed. The stenosis creates two chambers in the RV, one inferior including the inlet and trabecular portions of the RV and one superior including the infundibulum.
Pulmonary valve, Other	Other anomalies of the pulmonary valve may be listed here including but not restricted to absent pulmonary valve.
Pulmonary insufficiency	Pulmonary valve insufficiency or regurgitation may be due to congenital factors (primary annular dilation, prolapse, leaflet underdevelopment, etc.) or acquired (for example, post cardiac surgery for repair of tetralogy of Fallot, etc.).
Pulmonary insufficiency and pulmonary stenosis	Pulmonary valve insufficiency and pulmonary stenosis beyond the neonatal period, in infancy and childhood, may be secondary to leaflet tissue that has become thickened and myxomatous. Retraction of the commissure attachment frequently creates an associated supravalvar stenosis.
Shunt failure	Indicate if the patient has the diagnosis of "Shunt failure". This diagnostic subgroup includes failure of any of a variety of shunts ("Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)", "Shunt, Systemic to pulmonary, Central (from aorta or to main pulmonary artery)", "Shunt, Systemic to pulmonary, Other", and "Sano Shunt"), secondary to any of the following etiologies: shunt thrombosis, shunt occlusion, shunt stenosis, shunt obstruction, and shunt outgrowth. This diagnosis ("Shunt failure") would be the primary diagnosis in a patient with, for example, "Hypoplastic left heart syndrome (HLHS)" who underwent a "Norwood procedure" with a "Modified Blalock-Taussig Shunt" and now requires reoperation for thrombosis of the "Modified Blalock-Taussig Shunt". The underlying or fundamental diagnosis in this patient is "Hypoplastic left heart syndrome (HLHS)", but the primary diagnosis for the operation to be performed to treat the thrombosis of the "Modified Blalock-Taussig Shunt" would be "Shunt failure".
Conduit failure	 Please note that the choice "2130 Shunt failure" does not include "520 Conduit failure". Indicate if the patient has the diagnosis of "Conduit failure". This diagnostic subgroup includes failure of any of a variety of conduits (ventricular [right or left]-to-PA conduits, as well as a variety of other types of conduits [ventricular {right or left}-to-aorta, RA-to-RV, etc.]), secondary to any of the following etiologies: conduit outgrowth, obstruction, stenosis, insufficiency, or insufficiency and stenosis. This diagnosis ("Conduit

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failure") would be the primary diagnosis in a patient with, for example, "Truncus arteriosus" repaired in

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		infancy who years later is hospitalized because of conduit stenosis/insufficiency. The underlying or fundamental diagnosis in this patient is "Truncus arteriosus", but the primary diagnosis for the operation to be performed during the hospitalization (in this case, "Conduit reoperation") would be "Conduit failure". Please note that the choice "520 Conduit failure" does not include "2130 Shunt failure".
550	Aortic stenosis, Subvalvar	Subaortic obstruction can be caused by different lesions: subaortic membrane or tunnel, accessory mitral valve tissue, abnormal insertion of the mitral anterior leaflet to the ventricular septum, deviation of the outlet septum (seen in coarctation of the aorta and interrupted aortic arch), or a restrictive bulboventricular foramen in single ventricle complexes. The Shone complex consists of subvalvar aortic stenosis in association with supravalvar mitral ring, parachute mitral valve, and coarctation of aorta. Subvalvar aortic stenosis may be categorized into two types: localized subvalvar aortic stenosis, which consists of a fibrous or fibromuscular ridge, and diffuse tunnel subvalvar aortic stenosis, in which circumferential narrowing commences at the annular level and extends downward for 1-3 cm. Idiopathic hypertrophic subaortic stenosis (IHSS) is also known as hypertrophic obstructive cardiomyopathy (HOCM), and is characterized by a primary hypertrophy of the myocardium. The obstructive forms involve different degrees of dynamic subvalvar aortic obstruction from a thickened ventricular wall and anterior motion of the mitral valve. Definitive nomenclature and therapeutic options for IHSS are listed under cardiomyopathy.
560	Aortic stenosis, Valvar	Valvar aortic stenosis may be congenital or acquired. In its congenital form there are two types: critical (infantile), seen in the newborn in whom systemic perfusion depends on a patent ductus arteriosus, and noncritical, seen in infancy or later. Acquired valvar stenosis may be seen after as a result of rheumatic valvar disease, or from stenotic changes of an aortic valve prosthesis. Congenital valvar stenosis may result: (1) from complete fusion of commissures (acommissural) that results in a dome-shaped valve with a pinpoint opening (seen most commonly in infants with critical aortic valve stenosis); (2) from a unicommissural valve with one defined commissure and eccentric orifice (often with two raphes radiating from the ostium indicating underdeveloped commissures of a tricuspid aortic valve); (3) from a bicuspid aortic valve, with leaflets that can be equal in size or discrepant, and in left-right or anterior-posterior position; and finally (4) from a dysplastic tricuspid valve, which may have a gelatinous appearance with thick rarely equal in size

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	leaflets, often obscuring the commissures. The dysplastic, tricuspid or bicuspid form of aortic valve deformity may not be initially obstructive but may become stenotic later in life due to leaflet thickening and calcification.
Aortic stenosis, Supravalvar	Congenital supravalvar aortic stenosis is described as three forms: an hourglass deformity, a fibrous membrane, and a diffuse narrowing of the ascending aorta. The disease can be inherited as an autosomal dominant trait or part of Williams-Beuren syndrome in association with mental retardation, elfin facies, failure to thrive, and occasionally infantile hypercalcemia. Supravalvar aortic stenosis may involve the coronary artery ostia, and the aortic leaflets may be tethered. The coronary arteries can become tortuous and dilated due to elevated pressures and early atherosclerosis may ensue. Supravalvar aortic stenosis may also be acquired: (1) after a neoaortic reconstruction such as arterial switch, Ross operation, or Norwood procedure; (2) at a suture line from a previous aortotomy or cannulation; and (3) from a narrowed conduit.
Aortic valve atresia	Aortic valve atresia will most often be coded under the Hypoplastic left heart syndrome/complex diagnostic codes since it most often occurs as part of a spectrum of cardiac malformations. However, there is a small subset of patients with aortic valve atresia who have a well-developed left ventricle and mitral valve and a large VSD (nonrestrictive or restrictive). The diagnostic code "Aortic valve atresia" enables users to report those patients with aortic valve atresia and a well- developed systemic ventricle without recourse to either a hypoplastic left heart syndrome/complex diagnosis or a single ventricle diagnosis.
Aortic insufficiency	Congenital aortic regurgitation/insufficiency is rare as an isolated entity. There are rare reports of congenital malformation of the aortic valve that result in aortic insufficiency shortly after birth from an absent or underdeveloped aortic valve cusp. Aortic insufficiency is more commonly seen with other associated cardiac anomalies: (1) in stenotic aortic valves (commonly stenotic congenital bicuspid aortic valves) with some degree of aortic regurgitation due to aortic leaflet abnormality; (2) in association with a VSD (especially in supracristal or conal type I VSD, more commonly seen in Asian populations); (3) secondary to aortic-left ventricular tunnel; (4) secondary to tethering or retraction of aortic valve leaflets in cases of supravalvar aortic stenosis that may involve the aortic valve; and similarly (5) secondary to encroachment on an aortic cusp by a subaortic membrane; or (6) turbulence caused by a stenotic jet can create progressive aortic regurgitation. Aortic insufficiency may also result from: (1) post-procedure such as closed or open

		valvotomy or aortic valve repair, VSD closure, balloon valvotomy, or diagnostic catheterization; (2) in the neo- aorta post arterial switch, pulmonary autograft (Ross) procedure, homograft placement, Norwood procedure, or Damus-Kaye-Stansel procedure; (3) as a result of endocarditis secondary to perforated or prolapsed leaflets or annular dehiscence; (4) secondary to annulo- aortic ectasia with prolapsed or noncoapting leaflets; (5) secondary to trauma, blunt or penetrating; or (6) as a result of aortitis, bacterial, viral or autoimmune. Aortic regurgitation secondary to prosthetic failure should be coded first as either conduit failure or prosthetic valve failure, as applicable, and secondarily as aortic regurgitation secondary to prosthetic failure (perivalvar or due to structural failure). The underlying fundamental diagnosis that led to the initial conduit or valve prosthesis placement should also be described.
610	Aortic insufficiency and aortic stenosis	Aortic insufficiency is often seen in association with stenotic aortic valve, commonly the stenotic congenital bicuspid aortic valve. The degree of aortic regurgitation is due to the severity of the aortic leaflet abnormality.
620	Aortic valve, Other	This diagnostic subgroup may be used to delineate aortic valve cusp number (unicuspid, bicuspid, tricuspid, more than three cusps), commissural fusion (normal, partially fused, completely fused), and valve leaflet (normal, thickened, dysplastic, calcified, gelatinous), annulus (normal, hypoplastic, calcified), or sinus description (normal, dilated). Note that any extensive descriptors chosen within those made available by a vendor will be converted, at harvest, to Aortic valve, Other.
630	Sinus of Valsalva aneurysm	The sinus of Valsalva is defined as that portion of the aortic root between the aortic root annulus and the sinotubular ridge. A congenital sinus of Valsalva aneurysm is a dilation usually of a single sinus of Valsalva. These most commonly originate from the right sinus (65%-85%), less commonly from the noncoronary sinus (10%-30%), and rarely from the left sinus (<5%). A true sinus of Valsalva aneurysm presents above the aortic annulus. The hierarchical coding system distinguishes between congenital versus acquired, ruptured versus nonruptured, sinus of origin, and chamber/site of penetration (right atrium, right ventricle, left atrium, left ventricle, pulmonary artery, pericardium). A nonruptured congenital sinus of Valsalva aneurysm may vary from a mild dilation of a single aortic sinus to an extensive windsock deformity. Rupture of a congenital sinus of Valsalva aneurysm into an adjacent chamber occurs most commonly between the ages of 15-30 years. Rupture may occur spontaneously, after trauma, after strenuous physical exertion, or from acute bacterial endocarditis. Congenital etiology is supported by the frequent

LV to aorta tunnel

650 Mitral stenosis, Supravalvar

mitral ring

association of sinus of Valsalva aneurysms with VSDs. Other disease processes are also associated with sinus of Valsalva aneurysm and include: syphilis, endocarditis, cystic medial necrosis, atherosclerosis, and trauma. Acquired sinus of Valsalva aneurysms more frequently involve multiple sinuses of Valsalva; when present in multiple form they are more appropriately classified as aneurysms of the aortic root.

The aortico-left ventricular tunnel (LV-to-aorta tunnel) is an abnormal paravalvular (alongside or in the vicinity of a valve) communication between the aorta and left ventricle, commonly divided into 4 types: (1) type I, a simple tunnel with a slit-like opening at the aortic end and no aortic valve distortion; (2) type II, a large extracardiac aortic wall aneurysm of the tunnel with an oval opening at the aortic end, with or without ventricular distortion; (3) type III, intracardiac aneurysm of the septal portion of the tunnel, with or without right ventricular outflow obstruction; and (4) type IV, a combination of types II and III. Further differentiation within these types may be notation of right coronary artery arising from the wall of the tunnel. If a LV-to-aorta tunnel communicates with the right ventricle, many feel that the defect is really a ruptured sinus of Valsalva aneurysm.

Supravalvar mitral ring is formed by a circumferential ridge of tissue that is attached to the anterior mitral valve leaflet (also known as the aortic leaflet) slightly below its insertion on the annulus and to the atrium slightly above the attachment of the posterior mitral valve leaflet (also known as the mural leaflet). Depending on the diameter of the ring orifice, varying degrees of obstruction exist. The underlying valve is usually abnormal and frequently stenotic or hypoplastic. Supravalvar mitral ring is commonly associated with other stenotic lesions such as parachute or hammock valve (subvalvar stenosis), papillary muscle fusion (subvalvar stenosis), and double orifice mitral valve (valvar stenosis). Differentiation from cor triatriatum focuses on the compartments created by the supravalvar ring. In cor triatriatum the posterior compartment contains the pulmonary veins; the anterior contains the left atrial appendage and the mitral valve orifice. In supravalvar mitral ring, the posterior compartment contains the pulmonary veins and the left atrial appendage; the anterior compartment contains only the mitral valve orifice. When coding multiple mitral valvar lesions the predominant defect causing the functional effect (regurgitation, stenosis, or regurgitation and stenosis) should be listed as the primary defect.

Valvar mitral stenosis may arise from congenital (annular and / or leaflet) or acquired causes, both

Mitral stenosis, Valvar

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		surgical (after mitral valve repair or replacement or other cardiac surgery) and non-surgical (post rheumatic heart disease, infective endocarditis, ischemia, myxomatous degeneration, trauma, or cardiomyopathy). Mitral valve annular hypoplasia is distinguished from severe mitral valve hypoplasia and mitral valve atresia, which are typically components of hypoplastic left heart syndrome. When coding multiple mitral valvar lesions the predominant defect causing the functional effect (regurgitation, stenosis, or regurgitation and stenosis) should be listed as the primary defect.
670	Mitral stenosis, Subvalvar	Congenital subvalvar mitral stenosis may be due to obstructive pathology of either the chordae tendineae and / or papillary muscles which support the valve leaflets. When coding multiple mitral valvar lesions the predominant defect causing the functional effect (regurgitation, stenosis, or regurgitation and stenosis) should be listed as the primary defect.
680	Mitral stenosis, Subvalvar, Parachute	In parachute mitral valve, all chordae are attached to a single papillary muscle originating from the posterior ventricular wall. When the interchordal spaces are partially obliterated valvar stenosis results. This defect also causes valvar insufficiency, most commonly due to a cleft leaflet, a poorly developed anterior leaflet, short chordae, or annular dilation. This lesion is also part of Shone's anomaly, which consists of the parachute mitral valve, supravalvar mitral ring, subaortic stenosis, and coarctation of the aorta. When coding multiple mitral valvar lesions the predominant defect causing the functional effect (regurgitation, stenosis, or regurgitation and stenosis) should be listed as the primary defect.
695	Mitral stenosis	Stenotic lesions of the mitral valve not otherwise specified in the diagnosis definitions 650, 660, 670, and 680.
700	Mitral regurgitation and mitral stenosis	Mitral regurgitation and mitral stenosis may arise from congenital or acquired causes or after cardiac surgery. Additional details to aid in coding specific components of the diagnosis are available in the individual mitral stenosis or mitral regurgitation field definitions. When coding multiple mitral valve lesions the predominant defect causing the functional effect (regurgitation, stenosis, or regurgitation and stenosis) should be listed as the primary defect.
710	Mitral regurgitation	Mitral regurgitation may arise from congenital (at the annular, leaflet or subvalvar level) or acquired causes both surgical (after mitral valve repair or replacement, subaortic stenosis repair, atrioventricular canal repair, cardiac transplantation, or other cardiac surgery) and non-surgical (post rheumatic heart disease, infective endocarditis, ischemia (with chordal rupture or papillary muscle infarct), myxomatous degeneration including

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Barlow's syndrome, trauma, or cardiomyopathy). Congenital lesions at the annular level include annular dilation or deformation (usually deformation is consequent to associated lesions). At the valve leaflet level, mitral regurgitation may be due to a cleft, hypoplasia or agenesis of leaflet(s), excessive leaflet tissue, or a double orifice valve. At the subvalvar level, mitral regurgitation may be secondary to chordae tendineae anomalies (agenesis, rupture, elongation, or shortening as in funnel valve), or to papillary muscle anomalies (hypoplasia or agenesis, shortening, elongation, single-parachute, or multiple-hammock valve). When coding multiple mitral valvar lesions the predominant defect causing the functional effect (regurgitation, stenosis, or regurgitation and stenosis) should be listed as the primary defect. Mitral valve, Other Mitral valve pathology not otherwise coded in diagnosis definitions 650 through 710. Hypoplastic left heart Hypoplastic left heart syndrome (HLHS) is a spectrum syndrome (HLHS) of cardiac malformations characterized by a severe underdevelopment of the left heart-aorta complex, consisting of aortic and/or mitral valve atresia, stenosis, or hypoplasia with marked hypoplasia or absence of the left ventricle, and hypoplasia of the ascending aorta and of the aortic arch with coarctation of the aorta. Hypoplastic left heart complex is a subset of patients at the favorable end of the spectrum of HLHS characterized by hypoplasia of the structures of the left heart-aorta complex, consisting of aortic and mitral valve hypoplasia without valve stenosis or atresia, hypoplasia of the left ventricle, hypoplasia of the left ventricular outflow tract, hypoplasia of the ascending aorta and of the aortic arch, with or without coarctation of the aorta. Shone's syndrome Shone's syndrome is a syndrome of multilevel hypoplasia and obstruction of left sided cardiovascular structures including more than one of the following lesions: (1) supravalvar ring of the left atrium, (2) a parachute deformity of the mitral valve, (3) subaortic stenosis, and (4) aortic coarctation. The syndrome is based on the original report from Shone [1] that was based on analysis of 8 autopsied cases and described the tendency of these four obstructive, or potentially obstructive, conditions to coexist. Only 2 of the 8 cases exhibited all four conditions, with the other cases exhibiting only two or three of the anomalies [2]. [1] Shone JD, Sellers RD, Anderson RG, Adams P, Lillehei CW, Edwards JE. The developmental complex of "parachute mitral valve", supravalvar ring of left atrium, subaortic stenosis, and coarctation of the aorta. Am J Cardiol 1963; 11: 714-725. [2]. Tchervenkov CI, Jacobs JP, Weinberg PM, Aiello VD, Beland MJ, Colan SD, Elliott MJ, Franklin RC, Gaynor JW, Krogmann

		ON, Kurosawa H, Maruszewski B, Stellin G. The nomenclature, definition and classification of hypoplastic left heart syndrome. Cardiology in the Young, 2006; 16(4): 339–368, August 2006.
		Please note that the term "2080 Shone's syndrome" may be the "Fundamental Diagnosis" of a patient; however, the term "2080 Shone's syndrome" may not be the "Primary Diagnosis" of an operation. The term "2080 Shone's syndrome" may be a "Secondary Diagnosis" of an operation.
740	Cardiomyopathy (including dilated, restrictive, and hypertrophic)	Cardiomyopathy is a term applied to a wide spectrum of cardiac diseases in which the predominant feature is poor myocardial function in the absence of any anatomic abnormalities. Cardiomyopathies can be divided into three relatively easily distinguishable entities: (1) dilated, characterized by ventricular dilation and systolic dysfunction; (2) hypertrophic, characterized by physiologically inappropriate hypertrophy of the left ventricle; and (3) restrictive, characterized by diastolic dysfunction, with a presentation often identical to constrictive pericarditis. Also included in this diagnostic category are patients with a cardiomyopathy or syndrome confined to the right ventricle, for example: (1) arrhythmogenic right ventricular dysplasia; (2) Uhl's syndrome (hypoplasia of right ventricular myocardium, parchment heart); or (3)
750	Cardiomyopathy, End-stage congenital heart disease	Myocardial abnormality in which there is systolic and/or diastolic dysfunction in the presence of structural congenital heart disease without any (or any further) surgically correctable lesions.
760	Pericardial effusion	Inflammatory stimulation of the pericardium that results in the accumulation of appreciable amounts of pericardial fluid (also known as effusive pericarditis). The effusion may be idiopathic or acquired (e.g., postoperative, infectious, uremic, neoplastic, traumatic, drug-induced).
770	Pericarditis	Inflammatory process of the pericardium that leads to either (1) effusive pericarditis with accumulation of appreciable amounts of pericardial fluid or (2) constrictive pericarditis that leads to pericardial thickening and compression of the cardiac chambers, ultimately with an associated significant reduction in cardiac function. Etiologies are varied and include idiopathic or acquired (e.g., postoperative, infectious, uremic, neoplastic, traumatic, drug-induced) pericarditis.
780	Pericardial disease, Other	A structural or functional abnormality of the visceral or parietal pericardium that may, or may not, have a significant impact on cardiac function. Included are absence or partial defects of the pericardium.
790	Single ventricle, DILV	A congenital cardiac malformation in which both atria

connect to a single, morphologically left ventricle.

The version of the IPCCC derived from the International Congenital Heart Surgery Nomenclature and Database Project of the EACTS and STS uses the term "single ventricle" as synonymous for the "functionally univentricular heart".

The term "functionally univentricular heart" describes a spectrum of congenital cardiovascular malformations in which the ventricular mass may not readily lend itself to partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular heart include complex forms of atrioventricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart".

Reference: Jacobs JP, Franklin RCG, Jacobs ML, Colan SD, Tchervenkov CI, Maruszewski B, Gaynor JW, Spray TL, Stellin G, Aiello VD, Béland MJ, Krogmann ON, Kurosawa H, Weinberg PM, Elliott MJ, Mavroudis C, Anderson R. Classification of the Functionally Univentricular Heart: Unity from mapped codes. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges in the Management of the Functionally Univentricular Heart, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16, Supplement 1: 9 -21, February 2006.

A congenital cardiac malformation in which both atria connect to a single, morphologically right ventricle

The version of the IPCCC derived from the International Congenital Heart Surgery Nomenclature and Database Project of the EACTS and STS uses the term "single ventricle" as synonymous for the "functionally univentricular heart".

The term "functionally univentricular heart" describes a spectrum of congenital cardiovascular malformations in

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Single ventricle, DIRV

which the ventricular mass may not readily lend itself to partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular heart include complex forms of atrioventricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart" Reference: Jacobs JP, Franklin RCG, Jacobs ML, Colan SD, Tchervenkov CI, Maruszewski B, Gaynor JW, Spray TL, Stellin G, Aiello VD, Béland MJ, Krogmann ON, Kurosawa H, Weinberg PM, Elliott MJ, Mavroudis C, Anderson R. Classification of the Functionally Univentricular Heart: Unity from mapped codes. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges in the Management of the Functionally Univentricular Heart, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16, Supplement 1:9 -21, February 2006. 810 Single ventricle, Mitral atresia A congenital cardiac malformation in which there is no orifice of mitral valve The version of the IPCCC derived from the International Congenital Heart Surgery Nomenclature and Database Project of the EACTS and STS uses the term "single ventricle" as synonymous for the "functionally univentricular heart". The term "functionally univentricular heart" describes a spectrum of congenital cardiovascular malformations in which the ventricular mass may not readily lend itself to partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV),

tricuspid atresia, mitral atresia, and hypoplastic left

atresia

heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular heart include complex forms of atrioventricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart".

Reference: Jacobs JP, Franklin RCG, Jacobs ML, Colan SD, Tchervenkov CI, Maruszewski B, Gaynor JW, Spray TL, Stellin G, Aiello VD, Béland MJ, Krogmann ON, Kurosawa H, Weinberg PM, Elliott MJ, Mavroudis C, Anderson R. Classification of the Functionally Univentricular Heart: Unity from mapped codes. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges in the Management of the Functionally Univentricular Heart, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16, Supplement 1:9 -21, February 2006.

Single ventricle, Tricuspid A congenital cardiac malformation in which there is no orifice of tricuspid valve.

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The term "functionally univentricular heart" describes a spectrum of congenital cardiovascular malformations in which the ventricular mass may not readily lend itself to partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular heart include complex forms of atrioventricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart".

diac Surgery Database Version: 2.81		
		Reference: Jacobs JP, Franklin RCG, Jacobs ML, Colan SD, Tchervenkov CI, Maruszewski B, Gaynor JW, Spray TL, Stellin G, Aiello VD, Béland MJ, Krogmann ON, Kurosawa H, Weinberg PM, Elliott MJ, Mavroudis C, Anderson R. Classification of the Functionally Univentricular Heart: Unity from mapped codes. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges in the Management of the Functionally Univentricular Heart, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16, Supplement 1: 9 - 21, February 2006.
830	Single ventricle, Unbalanced AV canal	Single ventricle anomalies with a common atrioventricular (AV) valve and only one completely well developed ventricle. If the common AV valve opens predominantly into the morphologic left ventricle, the defect is termed a left ventricular (LV)–type or LV-dominant AV septal defect. If the common AV valve opens predominantly into the morphologic right ventricle, the defect is termed a right ventricular (RV)–type or RV-dominant AV septal defect.
		The version of the IPCCC derived from the International Congenital Heart Surgery Nomenclature and Database Project of the EACTS and STS uses the term "single ventricle" as synonymous for the "functionally univentricular heart".
		The term "functionally univentricular heart" describes a spectrum of congenital cardiovascular malformations in which the ventricular mass may not readily lend itself to partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart".
840	Single ventricle, Heterotaxia syndrome	"Heterotaxia syndrome" is synonymous with "heterotaxy", "visceral heterotaxy", and "heterotaxy syndrome". Heterotaxy is defined as an abnormality

where the internal thoraco-abdominal organs demonstrate abnormal arrangement across the left-right axis of the body. By convention, heterotaxy does not include patients with either the expected usual or normal arrangement of the internal organs along the leftright axis, also known as 'situs solitus', nor patients with complete mirror-imaged arrangement of the internal organs along the left-right axis also known as 'situs inversus'.

The version of the IPCCC derived from the International Congenital Heart Surgery Nomenclature and Database Project of the EACTS and STS uses the term "single ventricle" as synonymous for the "functionally univentricular heart".

The term "functionally univentricular heart" describes a spectrum of congenital cardiovascular malformations in which the ventricular mass may not readily lend itself to partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular heart include complex forms of atrioventricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart".

Reference: Jacobs JP, Franklin RCG, Jacobs ML, Colan SD, Tchervenkov CI, Maruszewski B, Gaynor JW, Spray TL, Stellin G, Aiello VD, Béland MJ, Krogmann ON, Kurosawa H, Weinberg PM, Elliott MJ, Mavroudis C, Anderson R. Classification of the Functionally Univentricular Heart: Unity from mapped codes. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges in the Management of the Functionally Univentricular Heart, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16, Supplement 1: 9 -21, February 2006.

If the single ventricle is of primitive or indeterminate type, other is chosen in coding. It is recognized that a considerable variety of other structural cardiac

850 Single ventricle, Other

malformations (e.g., biventricular hearts with straddling atrioventricular valves, pulmonary atresia with intact ventricular septum, some complex forms of double outlet right ventricle) may at times be best managed in a fashion similar to that which is used to treat univentricular hearts. They are not to be coded in this section of the nomenclature, but according to the underlying lesions.

The version of the IPCCC derived from the International Congenital Heart Surgery Nomenclature and Database Project of the EACTS and STS uses the term "single ventricle" as synonymous for the "functionally univentricular heart".

The term "functionally univentricular heart" describes a spectrum of congenital cardiovascular malformations in which the ventricular mass may not readily lend itself to partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular heart include complex forms of atrioventricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart".

Reference: Jacobs JP, Franklin RCG, Jacobs ML, Colan SD, Tchervenkov CI, Maruszewski B, Gaynor JW, Spray TL, Stellin G, Aiello VD, Béland MJ, Krogmann ON, Kurosawa H, Weinberg PM, Elliott MJ, Mavroudis C, Anderson R. Classification of the Functionally Univentricular Heart: Unity from mapped codes. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges in the Management of the Functionally Univentricular Heart, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16, Supplement 1: 9 -21, February 2006.

Indicate if the patient has the diagnosis of "Single Ventricle + Total anomalous pulmonary venous connection (TAPVC)". In the event of Single Ventricle occurring in association with Total anomalous

851 Single Ventricle + Total anomalous pulmonary venous connection (TAPVC) pulmonary venous connection (TAPVC), code "Single Ventricle + Total anomalous pulmonary venous connection (TAPVC)", and then use additional (secondary) diagnostic codes to describe the Single Ventricle and the Total anomalous pulmonary venous connection (TAPVC) separately to provide further documentation about the Single Ventricle and Total anomalous pulmonary venous connection (TAPVC) types. {"Total anomalous pulmonary venous connection (TAPVC)" is defined as a heart where all of the pulmonary veins connect anomalously with the right atrium or to one or more of its venous tributaries. None of the pulmonary veins connect normally to the left atrium.}

The version of the IPCCC derived from the International Congenital Heart Surgery Nomenclature and Database Project of the EACTS and STS uses the term "single ventricle" as synonymous for the "functionally univentricular heart".

The term "functionally univentricular heart" describes a spectrum of congenital cardiovascular malformations in which the ventricular mass may not readily lend itself to partitioning that commits one ventricular pump to the systemic circulation, and another to the pulmonary circulation. A heart may be functionally univentricular because of its anatomy or because of the lack of feasibility or lack of advisability of surgically partitioning the ventricular mass. Common lesions in this category typically include double inlet right ventricle (DIRV), double inlet left ventricle (DILV), tricuspid atresia, mitral atresia, and hypoplastic left heart syndrome. Other lesions which sometimes may be considered to be a functionally univentricular heart include complex forms of atrioventricular septal defect, double outlet right ventricle, congenitally corrected transposition, pulmonary atresia with intact ventricular septum, and other cardiovascular malformations. Specific diagnostic codes should be used whenever possible, and not the term "functionally univentricular heart".

Reference: Jacobs JP, Franklin RCG, Jacobs ML, Colan SD, Tchervenkov CI, Maruszewski B, Gaynor JW, Spray TL, Stellin G, Aiello VD, Béland MJ, Krogmann ON, Kurosawa H, Weinberg PM, Elliott MJ, Mavroudis C, Anderson R. Classification of the Functionally Univentricular Heart: Unity from mapped codes. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges in the Management of the Functionally Univentricular Heart, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16, Supplement 1: 9 -

		21, February 2006.
870	Congenitally corrected TGA	Indicate if the patient has the diagnosis of "Congenitally corrected TGA". Congenitally corrected transposition is synonymous with the terms 'corrected transposition' and 'discordant atrioventricular connections with discordant ventriculo-arterial connections', and is defined as a spectrum of cardiac malformations where the atrial chambers are joined to morphologically inappropriate ventricles, and the ventricles then support morphologically inappropriate arterial trunks [1]. [1] Jacobs JP, Franklin RCG, Wilkinson JL, Cochrane AD, Karl TR, Aiello VD, Béland MJ, Colan SD, Elliott, MJ, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Tchervenkov CI, Weinberg PM. The nomenclature, definition and classification of discordant atrioventricular connections. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges of the Atrioventricular Junctions and Other Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16 (Supplement 3): 72-84, September 2006.
872	Congenitally corrected TGA, IVS	Indicate if the patient has the diagnosis of "Congenitally corrected TGA, IVS". "Congenitally corrected TGA, IVS" is "Congenitally corrected transposition with an intact ventricular septum", in other words, "Congenitally corrected transposition with no VSD". (Congenitally corrected transposition is synonymous with the terms 'corrected transposition' and 'discordant atrioventricular connections with discordant ventriculo- arterial connections', and is defined as a spectrum of cardiac malformations where the atrial chambers are joined to morphologically inappropriate ventricles, and the ventricles then support morphologically inappropriate arterial trunks [1]. [1] Jacobs JP, Franklin RCG, Wilkinson JL, Cochrane AD, Karl TR, Aiello VD, Béland MJ, Colan SD, Elliott, MJ, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Tchervenkov CI, Weinberg PM. The nomenclature, definition and classification of discordant atrioventricular connections. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges of the Atrioventricular Junctions and Other Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16 (Supplement 3): 72-84, September 2006.)
874	Congenitally corrected TGA, IVS-LVOTO	Indicate if the patient has the diagnosis of "Congenitally corrected TGA, IVS-LVOTO". "Congenitally corrected TGA, IVS-LVOTO" is "Congenitally corrected transposition with an intact ventricular septum

VSD

Congenitally corrected TGA,

Congenitally corrected TGA,

VSD-LVOTO

and left ventricular outflow tract obstruction", in other words, "Congenitally corrected transposition with left ventricular outflow tract obstruction and no VSD". (Congenitally corrected transposition is synonymous with the terms 'corrected transposition' and 'discordant atrioventricular connections with discordant ventriculoarterial connections', and is defined as a spectrum of cardiac malformations where the atrial chambers are joined to morphologically inappropriate ventricles, and the ventricles then support morphologically inappropriate arterial trunks [1], [1] Jacobs JP. Franklin RCG, Wilkinson JL, Cochrane AD, Karl TR, Aiello VD, Béland MJ, Colan SD, Elliott, MJ, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Tchervenkov CI, Weinberg PM. The nomenclature, definition and classification of discordant atrioventricular connections. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges of the Atrioventricular Junctions and Other Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16 (Supplement 3): 72-84, September 2006.)

Indicate if the patient has the diagnosis of "Congenitally corrected TGA, VSD". "Congenitally corrected TGA, VSD" is "Congenitally corrected transposition with a VSD". (Congenitally corrected transposition is synonymous with the terms 'corrected transposition' and 'discordant atrioventricular connections with discordant ventriculo-arterial connections', and is defined as a spectrum of cardiac malformations where the atrial chambers are joined to morphologically inappropriate ventricles, and the ventricles then support morphologically inappropriate arterial trunks [1]. [1] Jacobs JP. Franklin RCG. Wilkinson JL. Cochrane AD. Karl TR, Aiello VD, Béland MJ, Colan SD, Elliott, MJ, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Tchervenkov CI, Weinberg PM. The nomenclature, definition and classification of discordant atrioventricular connections. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges of the Atrioventricular Junctions and Other Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16 (Supplement 3): 72-84, September 2006.)

Indicate if the patient has the diagnosis of "Congenitally corrected TGA, VSD-LVOTO". "Congenitally corrected TGA, VSD-LVOTO" is "Congenitally corrected transposition with a VSD and left ventricular outflow tract obstruction". (Congenitally corrected

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		 transposition is synonymous with the terms 'corrected transposition' and 'discordant atrioventricular connections with discordant ventriculo-arterial connections', and is defined as a spectrum of cardiac malformations where the atrial chambers are joined to morphologically inappropriate ventricles, and the ventricles then support morphologically inappropriate arterial trunks [1]. [1] Jacobs JP, Franklin RCG, Wilkinson JL, Cochrane AD, Karl TR, Aiello VD, Béland MJ, Colan SD, Elliott, MJ, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Tchervenkov CI, Weinberg PM. The nomenclature, definition and classification of discordant atrioventricular connections. In 2006 Supplement to Cardiology in the Young: Controversies and Challenges of the Atrioventricular Junctions and Other Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Jacobs JP, Wernovsky G, Gaynor JW, and Anderson RH (editors). Cardiology in the Young, Volume 16 (Supplement 3): 72-84, September 2006.)
880	TGA, IVS	A malformation of the heart in which there is atrioventricular concordance and ventriculoarterial discordance with an intact ventricular septum. There may be d, l, or ambiguous transposition (segmental diagnoses include S,D,D, S,D,L, S,D,A). Also to be included in this diagnostic grouping are those defects with situs inversus, L-loop ventricles and either d or 1 transposition (segmental diagnosis of I,L,L and I,L,D) and occasionally those defects with ambiguous situs of the atria which behave as physiologically uncorrected transposition and are treated with arterial switch (segmental diagnoses include A,L,L and A,D,D).
890	TGA, IVS-LVOTO	A malformation of the heart in which there is atrioventricular concordance and ventriculoarterial discordance with an intact ventricular septum and associated left ventricular obstruction. There may be d, l, or ambiguous transposition (segmental diagnoses include S,D,D, S,D,L, S,D,A). Also to be included in this diagnostic grouping are those defects with situs inversus, L-loop ventricles and either d or 1 transposition (segmental diagnosis of I,L,L and I,L,D) and occasionally those defects with ambiguous situs of the atria which behave as physiologically uncorrected transposition and are treated with arterial switch (segmental diagnoses include A,L,L and A,D,D).
900	TGA, VSD	A malformation of the heart in which there is atrioventricular concordance and ventriculoarterial discordance with one or more ventricular septal defects. There may be d, l, or ambiguous transposition (segmental diagnoses include S,D,D, S,D,L, S,D,A). Also to be included in this diagnostic grouping are those defects with situs inversus, L-loop ventricles and either

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		d or l transposition (segmental diagnosis of I,L,L and I,L,D) and occasionally those defects with ambiguous situs of the atria which behave as physiologically uncorrected transposition and are treated with arterial switch (segmental diagnoses include A,L,L and A,D,D).
910	TGA, VSD-LVOTO	A malformation of the heart in which there is atrioventricular concordance and ventriculoarterial discordance with one or more ventricular septal defects and left ventricular outflow tract obstruction. There may be d, l, or ambiguous transposition (segmental diagnoses include S,D,D, S,D,L, S,D,A). Also to be included in this diagnostic grouping are those defects with situs inversus, L-loop ventricles and either d or l transposition (segmental diagnosis of I,L,L and I,L,D) and occasionally those defects with ambiguous situs of the atria which behave as physiologically uncorrected transposition and are treated with arterial switch (segmental diagnoses include A,L,L and A,D,D).
930	DORV, VSD type	Double outlet right ventricle is a type of ventriculoarterial connection in which both great vessels arise entirely or predominantly from the right ventricle. In double outlet right ventricle, VSD type, there is an associated subaortic or doubly-committed VSD and no pulmonary outflow tract obstruction. Subaortic VSD's are located beneath the aortic valve. Doubly-committed VSD's lie beneath the leaflets of the aortic and pulmonary valves (juxtaarterial). In the nomenclature developed for DORV, there must be usual atrial arrangements and concordant atrioventricular connections, and normal or near-normal sized ventricles. Discordant atrioventricular connection with DORV is to be coded under congenitally corrected TGA. DORV associated with univentricular atrioventricular connections, atrioventricular valve atresia, or atrial isomerism is to be coded under the appropriate single ventricle listing.
940	DORV, TOF type	Double outlet right ventricle is a type of ventriculoarterial connection in which both great vessels arise entirely or predominantly from the right ventricle. In double outlet right ventricle, TOF type, there is an associated subaortic or doubly-committed VSD and pulmonary outflow tract obstruction. Subaortic VSD's are located beneath the aortic valve. Doubly-committed VSD's lie beneath the leaflets of the aortic and pulmonary valves (juxtaarterial). DORV can occur in association with pulmonary atresia, keeping in mind in coding that in the nomenclature developed for DORV, there must be usual atrial arrangements and concordant atrioventricular connections, and normal or near-normal sized ventricles (in this situation DORV is coded as a primary diagnosis). Discordant atrioventricular connection with DORV is to be coded under congenitally corrected TGA. DORV associated with

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		univentricular atrioventricular connections, atrioventricular valve atresia, or atrial isomerism is to be coded under the appropriate Single ventricle listing.
950	DORV, TGA type	Double outlet right ventricle is a type of ventriculoarterial connection in which both great vessels arise entirely or predominantly from the right ventricle. In double outlet right ventricle, TGA type, there is an associated subpulmonary VSD. Most frequently, there is no pulmonary outflow tract obstruction (Taussig-Bing heart). The aorta is usually to the right and slightly anterior to or side-by-side with the pulmonary artery. Associated aortic outflow tract stenosis (subaortic, aortic arch obstruction) is commonly associated with the Taussig-Bing heart and if present should be coded as a secondary diagnosis. Rarely, there is associated pulmonary outflow tract obstruction. In the nomenclature developed for DORV, there must be usual atrial arrangements and concordant atrioventricular connections, and normal or near-normal sized ventricles. Discordant atrioventricular connection with DORV is to be coded under congenitally corrected TGA. DORV associated with univentricular atrioventricular connections, atrioventricular valve atresia, or atrial isomerism is to be coded under the appropriate single ventricle listing.
960	DORV, Remote VSD (uncommitted VSD)	Double outlet right ventricle is a type of ventriculoarterial connection in which both great vessels arise entirely or predominantly from the right ventricle. In double outlet right ventricle, Remote VSD type, there is a remote or noncommitted VSD. The VSD is far removed from both the aortic and pulmonary valves, usually within the inlet septum. Many of these VSD's are in hearts with DORV and common atrioventricular canal/septal defect. In the nomenclature developed for DORV, there must be usual atrial arrangements and concordant atrioventricular connections, and normal or near-normal sized ventricles. Discordant atrioventricular connection with DORV is to be coded under congenitally corrected TGA. DORV associated with univentricular atrioventricular connections, atrioventricular valve atresia, or atrial isomerism is to be coded under the appropriate single ventricle listing.
2030	DORV + AVSD (AV Canal)	Indicate if the patient has the diagnosis of "DORV + AVSD (AV Canal)". In the event of DORV occurring in association with AVSD (AV Canal), code "DORV + AVSD (AV Canal)", and then use additional (secondary) diagnostic codes to describe the DORV and the AVSD (AV Canal) separately to provide further documentation about the DORV and AVSD (AV Canal) types. {"DORV" is "Double outlet right ventricle" and is defined as a type of ventriculoarterial connection in which both great vessels arise entirely or predominantly from the right ventricle.} In this case, the DORV exists

		in combination with an atrioventricular septal defect and common atrioventricular junction guarded by a common atrioventricular valve.
975	DORV, IVS	Double outlet right ventricle is a type of ventriculoarterial connection in which both great vessels arise entirely or predominantly from the right ventricle. In the rare case of double outlet right ventricle with IVS the ventricular septum is intact. In the nomenclature developed for DORV, there must be usual atrial arrangements and concordant atrioventricular connections, and normal or near-normal sized ventricles. Discordant atrioventricular connections with DORV are to be coded under congenitally corrected TGA. DORV associated with univentricular atrioventricular connections, atrioventricular valve atresia, or atrial isomerism is to be coded under the appropriate single ventricle listing.
980	DOLV	Double outlet left ventricle is a type of ventriculoarterial connection in which both great vessels arise entirely or predominantly from the left ventricle. In the nomenclature developed for DOLV, there must be usual atrial arrangements and concordant atrioventricular connections, and normal or near-normal sized ventricles. Discordant atrioventricular connection with DOLV is to be coded under congenitally corrected TGA. DOLV associated with univentricular atrioventricular connections, atrioventricular valve atresia, or atrial isomerism is to be coded under the appropriate single ventricle listing.
990	Coarctation of aorta	Indicate if the patient has the diagnosis of "Coarctation of aorta". A "Coarctation of the aorta" generally indicates a narrowing of the descending thoracic aorta just distal to the left subclavian artery. However, the term may also be accurately used to refer to a region of narrowing anywhere in the thoracic or abdominal aorta.
1000	Aortic arch hypoplasia	Hypoplasia of the aortic arch is hypoplasia of the proximal or distal transverse arch or the aortic isthmus. The isthmus (arch between the left subclavian and insertion of the patent ductus arteriosus / ligamentum arteriosum) is hypoplastic if its diameter is less than 40% of the diameter of the ascending aorta. The proximal transverse arch (arch between the innominate and left carotid arteries) and distal transverse arch (arch between the left carotid and left subclavian arteries) are hypoplastic if their diameters are less than 60% and 50%, respectively, of the diameter of the ascending aorta.
92	VSD + Aortic arch hypoplasia	A ventricular septal defect, any type, associated with hypoplasia of the aortic arch. (See diagnosis definition 1000 for a definition of hypoplasia of the aortic arch.)
94	VSD + Coarctation of aorta	Indicate if the patient has the diagnosis of "VSD +

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Coarctation of aorta". In the event of a VSD occurring in association with Coarctation of aorta, code "VSD + Coarctation of aorta", and then use additional (secondary) diagnostic codes to describe the VSD and the Coarctation of aorta separately to provide further documentation about the individual VSD and Coarctation of aorta types. {A "VSD" is a "Ventricular Septal Defect" and is also known as an "Interventricular communication". A VSD is defined as "a hole between the ventricular chambers or their remnants". (The VSD is defined on the basis of its margins as seen from the aspect of the morphologically right ventricle. In the setting of double outlet right ventricle, the defect provides the outflow from the morphologically left ventricle. In univentricular atrioventricular connections with functionally single left ventricle with an outflow chamber, the communication is referred to by some as a bulboventricular foramen.)} {A "Coarctation of the aorta" generally indicates a narrowing of the descending thoracic aorta just distal to the left subclavian artery. However, the term may also be accurately used to refer to a region of narrowing anywhere in the thoracic or abdominal aorta.}

Anomalous aortic origins of the coronary arteries include a spectrum of anatomic variations of the normal coronary artery origins. Coronary artery anomalies of aortic origin to be coded under this diagnostic field include: anomalies of take-off (high take-off), origin (sinus), branching, and number. An anomalous course of the coronary artery vessels is also significant, particularly those coronary arteries that arise or course between the great vessels.

In patients with anomalous pulmonary origin of the coronary artery, the coronary artery (most commonly the left coronary artery) arises from the pulmonary artery rather than from the aorta. Rarely, the right coronary artery, the circumflex, or both coronary arteries may arise from the pulmonary artery.

The most common of coronary artery anomalies, a coronary arteriovenous fistula is a communication between a coronary artery and either a chamber of the heart (coronary-cameral fistula) or any segment of the systemic or pulmonary circulation (coronary arteriovenous fistula). They may be congenital or acquired (traumatic, infectious, iatrogenic) in origin, and are mostly commonly seen singly, but occasionally multiple fistulas are present. Nomenclature schemes have been developed that further categorize the fistulas by vessel of origin and chamber of termination, and one angiographic classification scheme by Sakakibara has surgical implications. Coronary artery fistulas can be associated with other congenital heart anomalies such as tetralogy of Fallot, atrial septal defect, ventricular septal

- 1010 Coronary artery anomaly, Anomalous aortic origin of coronary artery (AAOCA)
- 1020 Coronary artery anomaly, Anomalous pulmonary origin (includes ALCAPA)
- 1030 Coronary artery anomaly, Fistula

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		defect, and pulmonary atresia with intact ventricular septum, among others. The major cardiac defect should be listed as the primary diagnosis and the coronary artery fistula should be as an additional secondary diagnoses.
1040	Coronary artery anomaly, Aneurysm	Coronary artery aneurysms are defined as dilations of a coronary vessel 1.5 times the adjacent normal coronaries. There are two forms, saccular and fusiform (most common), and both may be single or multiple. These aneurysms may be congenital or acquired (atherosclerotic, Kawasaki, systemic diseases other than Kawasaki, iatrogenic, infectious, or traumatic) in origin.
1050	Coronary artery anomaly, Other	Coronary artery anomalies which may fall within this category include coronary artery bridging and coronary artery stenosis, as well as secondary coronary artery variations seen in congenital heart defects such as tetralogy of Fallot, transposition of the great arteries, and truncus arteriosus (with the exception of variations that can be addressed by a more specific coronary artery anomaly code).
1070	Interrupted aortic arch	Indicate if the patient has the diagnosis of "Interrupted aortic arch". Interrupted aortic arch is defined as the loss of luminal continuity between the ascending and descending aorta. In most cases blood flow to the descending thoracic aorta is through a PDA, and there is a large VSD. Arch interruption is further defined by site of interruption. In type A, interruption is distal to the left subclavian artery; in type B interruption is between the left carotid and left subclavian arteries; and in type C interruption occurs between the innominate and left carotid arteries.
2020	Interrupted aortic arch + VSD	Indicate if the patient has the diagnosis of "Interrupted aortic arch + VSD". In the event of interrupted aortic arch occurring in association with VSD, code "Interrupted aortic arch + VSD", and then use additional (secondary) diagnostic codes to describe the interrupted aortic arch and the VSD separately to provide further documentation about the individual interrupted aortic arch and VSD types. {Interrupted aortic arch is defined as the loss of luminal continuity between the ascending and descending aorta. In most cases blood flow to the descending thoracic aorta is through a PDA, and there is a large VSD. Arch interruption is further defined by site of interruption. In type A, interruption is distal to the left subclavian artery; in type B interruption is between the left carotid and left subclavian arteries; and in type C interruption occurs between the innominate and left carotid arteries.} {A "VSD" is a "Ventricular Septal Defect" and is also known as an "Interventricular communication". A VSD is defined as "a hole between the ventricular chambers or their remnants". (The VSD

is defined on the basis of its margins as seen from the aspect of the morphologically right ventricle. In the setting of double outlet right ventricle, the defect provides the outflow from the morphologically left ventricle. In univentricular atrioventricular connections with functionally single left ventricle with an outflow chamber, the communication is referred to by some as a bulboventricular foramen.)}

Indicate if the patient has the diagnosis of "Interrupted aortic arch + AP window (aortopulmonary window)". In the event of interrupted aortic arch occurring in association with AP window, code "Interrupted aortic arch + AP window (aortopulmonary window)", and then use additional (secondary) diagnostic codes to describe the interrupted aortic arch and the AP window separately to provide further documentation about the individual interrupted aortic arch and AP window types. {Interrupted aortic arch is defined as the loss of luminal continuity between the ascending and descending aorta. In most cases blood flow to the descending thoracic aorta is through a PDA, and there is a large VSD. Arch interruption is further defined by site of interruption. In type A, interruption is distal to the left subclavian artery; in type B interruption is between the left carotid and left subclavian arteries; and in type C interruption occurs between the innominate and left carotid arteries.} {An "AP window (aortopulmonary window)" is defined as a defect with side-to-side continuity of the lumens of the aorta and pulmonary arterial tree, which is distinguished from common arterial trunk (truncus arteriosus) by the presence of two arterial valves or their atretic remnants. (In other words, an aortopulmonary window is a communication between the main pulmonary artery and ascending aorta in the presence of two separate semilunar [pulmonary and aortic] valves. The presence of two separate semilunar valves distinguishes AP window from truncus arteriosus. Type 1 proximal defect: AP window located just above the sinus of Valsalva, a few millimeters above the semilunar valves, with a superior rim but little inferior rim separating the AP window from the semilunar valves. Type 2 distal defect: AP window located in the uppermost portion of the ascending aorta, with a well-formed inferior rim but little superior rim. Type 3 total defect: AP window involving the majority of the ascending aorta, with little superior and inferior rims. The intermediate type of AP window is similar to the total defect but with adequate superior and inferior rims. In the event of AP window occurring in association with interrupted aortic arch, code "Interrupted aortic arch + AP window (aortopulmonary window)", and then use additional (secondary) diagnostic codes to describe the interrupted

2000 Interrupted aortic arch + AP window (aortopulmonary window)

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		aortic arch and AP window separately to provide further documentation about the individual interrupted arch and AP window types.)}
1080	Patent ductus arteriosus	Indicate if the patient has the diagnosis of "Patent ductus arteriosus". The ductus arteriosus (arterial duct) is an essential feature of fetal circulation, connecting the main pulmonary trunk with the descending aorta, distal to the origin of the left subclavian artery. In most patients it is on the left side. If a right aortic arch is present, it may be on the right or the left; very rarely it is bilateral. When luminal patency of the duct persists post-natally, it is referred to as patent ductus arteriosus (patent arterial duct). The length and diameter may vary considerably from case to case. The media of the ductus consists mainly of smooth muscle that is arranged spirally, and the intima is much thicker than that of the aorta. (A patent ductus arteriosus is a vascular arterial connection between the thoracic aorta and the pulmonary artery. Most commonly a PDA has its origin from the descending thoracic aorta, just distal and opposite the origin of the left subclavian artery. The insertion of the ductus is most commonly into the very proximal left pulmonary artery at its junction with the main pulmonary artery. Origination and insertion sites can be variable, however.)
1090	Vascular ring	The term vascular ring refers to a group of congenital vascular anomalies that encircle and compress the esophagus and trachea. The compression may be from a complete anatomic ring (double aortic arch or right aortic arch with a left ligamentum) or from a compressive effect of an aberrant vessel (innominate artery compression syndrome).
1100	Pulmonary artery sling	In pulmonary artery sling, the left pulmonary artery originates from the right pulmonary artery and courses posteriorly between the trachea and esophagus in its route to the left lung hilum, causing a sling-like compression of the trachea.
1110	Aortic aneurysm (including pseudoaneurysm)	An aneurysm of the aorta is defined as a localized dilation or enlargement of the aorta at any site along its length (from aortic annulus to aortoiliac bifurcation). A true aortic aneurysm involves all layers of the aortic wall. A false aortic aneurysm (pseudoaneurysm) is defined as a dilated segment of the aorta not containing all layers of the aortic wall and may include postoperative or post-procedure false aneurysms at anastomotic sites, traumatic aortic injuries or transections, and infectious processes leading to a contained rupture.
1120	Aortic dissection	Aortic dissection is a separation of the layers of the aortic wall. Extension of the plane of the dissection may progress to free rupture into the pericardium, mediastinum, or pleural space if not contained by the

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		outer layers of the media and adventitia. Dissections may be classified as acute or chronic (if they have been present for more than 14 days).
1130	Lung disease, Benign	Lung disease arising from any etiology (congenital or acquired) which does not result in death or lung or heart- lung transplant; examples might be non-life threatening asthma or emphysema, benign cysts.
1140	Lung disease, Malignant	Lung disease arising from any etiology (congenital or acquired, including pulmonary parenchymal disease, pulmonary vascular disease, congenital heart disease, neoplasm, etc.) which may result in death or lung or heart-lung transplant.
1160	Tracheal stenosis	Tracheal stenosis is a reduction in the anatomic luminal diameter of the trachea by more than 50% of the remaining trachea. This stenosis may be congenital or acquired (as in post-intubation or traumatic tracheal stenosis).
1170	Airway disease	Included in this diagnostic category would be airway pathology not included under the definition of tracheal stenosis such as tracheomalacia, bronchotracheomalacia, tracheal right upper lobe, bronchomalacia, subglottic stenosis, bronchial stenosis, etc.
1430	Pleural disease, Benign	Benign diseases of the mediastinal or visceral pleura.
1440	Pleural disease, Malignant	Malignant diseases of the mediastinal or visceral pleura.
1450	Pneumothorax	A collection of air or gas in the pleural space.
1460	Pleural effusion	Abnormal accumulation of fluid in the pleural space.
1470	Chylothorax	The presence of lymphatic fluid in the pleural space secondary to a leak from the thoracic duct or its branches. Chylothorax is a specific type of pleural effusion.
1480	Empyema	A collection of purulent material in the pleural space, usually secondary to an infection.
1490	Esophageal disease, Benign	Any benign disease of the esophagus.
1500	Esophageal disease, Malignant	Any malignant disease of the esophagus.
1505	Mediastinal disease	Any disease of the mediastinum awaiting final benign/malignant pathology determination.
1510	Mediastinal disease, Benign	Any benign disease of the mediastinum.
1520	Mediastinal disease, Malignant	Any malignant disease of the mediastinum.
1540	Diaphragm paralysis	Paralysis of diaphragm, unilateral or bilateral.
1550	Diaphragm disease, Other	Any disease of the diaphragm other than paralysis.
2160	Rib tumor, Benign	Non-cancerous tumor of rib(s) (e.g., fibrous dysplasia)
2170	Rib tumor, Malignant	Cancerous tumor of rib(s)- primary (e.g., osteosarcoma, chondrosarcoma)

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2180	Rib tumor, Metastatic	Cancerous tumor metastasized to rib(s)from a different primary location
2190	Sternal tumor, Benign	Non-cancerous tumor of sternum (e.g., fibrous dysplasia)
2200	Sternal tumor, Malignant	Cancerous tumor of sternum - primary (e.g., osteosarcoma, chondrosarcoma)
2210	Sternal tumor, Metastatic	Cancerous tumor metastasized to sternum from a different primary location
2220	Pectus carinatum	Pectus carinatum represents a spectrum of protrusion abnormalities of the anterior chest wall. Severe deformity may result in dyspnea and decreased endurance. Some patients develop rigidity of the chest wall with decreased lung compliance, progressive emphysema, and increased frequency of respiratory tract infections.
2230	Pectus excavatum	Pectus excavatum is a congenital chest wall deformity in which several ribs and the sternum grow abnormally, producing a concave, or caved-in, appearance in the anterior chest wall. Pectus excavatum is the most common type of congenital chest wall abnormality. It occurs in an estimated 1 in 300-400 births, with male predominance (male-to-female ratio of 3:1). The condition is typically noticed at birth, and more than 90% of cases are diagnosed within the first year of life. Worsening of the chest's appearance and the onset of respiratory symptoms are usually reported during rapid bone growth in the early teenage years.
2240	Thoracic outlet syndrome	Thoracic outlet syndrome (TOS) is caused by compression at the superior thoracic outlet wherein excess pressure is placed on a neurovascular bundle passing between the anterior scalene and middle scalene muscles. It can affect the brachial plexus (nerves that pass into the arm from the neck), the subclavian artery, and - rarely - the vein, which does not normally pass through the scalene hiatus. TOS may occur due to a positional cause - for example, by abnormal compression from the clavicle (collarbone) and shoulder girdle on arm movement. There are also several static forms, caused by abnormalities, enlargement, or spasm of the various muscles surrounding the arteries, veins, and/or brachial plexus, a fixation of a first rib, or a cervical rib. The most common causes of thoracic outlet syndrome include physical trauma from a car accident, repetitive injuries from a job such as frequent non- ergonomic use of a keyboard, sports-related activities, anatomical defects such as having an extra rib, and pregnancy.
1180	Arrhythmia	Any cardiac rhythm other than normal sinus rhythm.
2040	Arrhythmia, Atrial	Indicate if the patient has the diagnosis of "Arrhythmia, Atrial". "Arrhythmia, Atrial" ROOT Definition =

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		Non-sinus atrial rhythm with or without atrioventricular conduction. [1]. [1]. Jacobs JP. (Editor). 2008 Supplement to Cardiology in the Young: Databases and The Assessment of Complications associated with The Treatment of Patients with Congenital Cardiac Disease, Prepared by: The Multi-Societal Database Committee for Pediatric and Congenital Heart Disease, Cardiology in the Young, Volume 18, Supplement S2, pages 1–530, December 9, 2008, page 373.
2050	Arrhythmia, Junctional	Indicate if the patient has the diagnosis of "Arrhythmia, Junctional". "Arrhythmias arising from the atrioventricular junction; may be bradycardia, tachycardia, premature beats, or escape rhythm [1]. [1]. Jacobs JP. (Editor). 2008 Supplement to Cardiology in the Young: Databases and The Assessment of Complications associated with The Treatment of Patients with Congenital Cardiac Disease, Prepared by: The Multi-Societal Database Committee for Pediatric and Congenital Heart Disease, Cardiology in the Young, Volume 18, Supplement S2, pages 1–530, December 9, 2008, page 379.
2060	Arrhythmia, Ventricular	Indicate if the patient has the diagnosis of "Arrhythmia, Ventricular". "Arrhythmia, Ventricular" ROOT Definition = Abnormal rhythm originating from the ventricles [1]. [1]. Jacobs JP. (Editor). 2008 Supplement to Cardiology in the Young: Databases and The Assessment of Complications associated with The Treatment of Patients with Congenital Cardiac Disease, Prepared by: The Multi-Societal Database Committee for Pediatric and Congenital Heart Disease, Cardiology in the Young, Volume 18, Supplement S2, pages 1–530, December 9, 2008, page 393.
1185	Arrhythmia, Heart block	Atrioventricular block may be congenital or acquired, and may be of varying degree (first, second, or third degree).
1190	Arrhythmia, Heart block, Acquired	Atrioventricular block, when acquired, may be post- surgical, or secondary to myocarditis or other etiologies; the block may be first, second or third degree.
1200	Arrhythmia, Heart block, Congenital	Atrioventricular block, when congenital, may be first, second or third degree block.
1220	Arrhythmia, Pacemaker, Indication for replacement	Indications for pacemaker replacement may include end of generator life, malfunction, or infection.
1230	Atrial Isomerism, Left	In isomerism, both appendages are of like morphology or structure; in left atrial isomerism both the right atrium and left atrium appear to be a left atrium structurally.
1240	Atrial Isomerism, Right	In isomerism, both appendages are of like morphology or structure; in right atrial isomerism both the right atrium and left atrium appear to be a right atrium structurally.

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2090	Dextrocardia	Indicate if the patient has the diagnosis of "Dextrocardia". "Dextrocardia" is most usually considered synonymous with a right-sided ventricular mass, whilst "dextroversion" is frequently defined as a configuration where the ventricular apex points to the right. In a patient with the usual atrial arrangement, or situs solitus, dextroversion, therefore, implies a turning to the right of the heart [1]. [1]. Jacobs JP, Anderson RH, Weinberg P, Walters III HL, Tchervenkov CI, Del Duca D, Franklin RCG, Aiello VD, Béland MJ, Colan SD, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Elliott MJ. The nomenclature, definition and classification of cardiac structures in the setting of heterotaxy. In 2007 Supplement to Cardiology in the Young: Controversies and Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Anderson RH, Jacobs JP, and Wernovsky G, editors. Cardiology in the Young, Volume 17, Supplement 2, pages 1–28, doi: 10.1017/S1047951107001138, September 2007.
2100	Levocardia	Indicate if the patient has the diagnosis of "Levocardia". "Levocardia" usually considered synonymous with a left-sided ventricular mass, whilst "levoversion" is frequently defined as a configuration where the ventricular apex points to the left [1]. [1]. Jacobs JP, Anderson RH, Weinberg P, Walters III HL, Tchervenkov CI, Del Duca D, Franklin RCG, Aiello VD, Béland MJ, Colan SD, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Elliott MJ. The nomenclature, definition and classification of cardiac structures in the setting of heterotaxy. In 2007 Supplement to Cardiology in the Young: Controversies and Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Anderson RH, Jacobs JP, and Wernovsky G, editors. Cardiology in the Young, Volume 17, Supplement 2, pages 1–28, doi: 10.1017/S1047951107001138, September 2007.
2110	Mesocardia	Indicate if the patient has the diagnosis of "Mesocardia". "Mesocardia" is most usually considered synonymous with the ventricular mass occupying the midline [1]. [1]. Jacobs JP, Anderson RH, Weinberg P, Walters III HL, Tchervenkov CI, Del Duca D, Franklin RCG, Aiello VD, Béland MJ, Colan SD, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Elliott MJ. The nomenclature, definition and classification of cardiac structures in the setting of heterotaxy. In 2007 Supplement to Cardiology in the Young: Controversies and Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Anderson RH, Jacobs JP, and Wernovsky G, editors. Cardiology in the Young, Volume 17, Supplement 2, pages 1–28, doi: 10.1017/S1047951107001138, September 2007.

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2120	Situs inversus	Indicate if the patient has the diagnosis of "Situs inversus" of the atrial chambers. The development of morphologically right-sided structures on one side of the body, and morphologically left-sided structures on the other side, is termed lateralization. Normal lateralization, the usual arrangement, is also known as "situs solitus". The mirror-imaged arrangement is also known as "situs inversus". The term "visceroatrial situs" is often used to refer to the situs of the viscera and atria when their situs is in agreement. The arrangement of the organs themselves, and the arrangement of the atrial chambers, is not always the same. Should such disharmony be encountered, the sidedness of the organs and atrial chambers must be separately specified [1]. [1]. Jacobs JP, Anderson RH, Weinberg P, Walters III HL, Tchervenkov CI, Del Duca D, Franklin RCG, Aiello VD, Béland MJ, Colan SD, Gaynor JW, Krogmann ON, Kurosawa H, Maruszewski B, Stellin G, Elliott MJ. The nomenclature, definition and classification of cardiac structures in the setting of heterotaxy. In 2007 Supplement to Cardiology in the Young: Controversies and Challenges Facing Paediatric Cardiovascular Practitioners and their Patients, Anderson RH, Jacobs JP, and Wernovsky G, editors. Cardiology in the Young, Volume 17, Supplement 2, pages 1–28, doi: 10.1017/S1047951107001138, September 2007.
1250	Aneurysm, Ventricular, Right (including pseudoaneurysm)	An aneurysm of the right ventricle is defined as a localized dilation or enlargement of the right ventricular wall.
1260	Aneurysm, Ventricular, Left (including pseudoaneurysm)	An aneurysm of the left ventricle is defined as a localized dilation or enlargement of the left ventricular wall.
1270	Aneurysm, Pulmonary artery	An aneurysm of the pulmonary artery is defined as a localized dilation or enlargement of the pulmonary artery trunk and its central branches (right and left pulmonary artery).
1280	Aneurysm, Other	A localized dilation or enlargement of a cardiac vessel or chamber not coded in specific fields available for aortic aneurysm, sinus of Valsalva aneurysm, coronary artery aneurysm, right ventricular aneurysm, left ventricular aneurysm, or pulmonary artery aneurysm.
1290	Hypoplastic RV	Small size of the right ventricle. This morphological abnormality usually is an integral part of other congenital cardiac anomalies and, therefore, frequently does not need to be coded separately. It should, however, be coded as secondary to an accompanying congenital cardiac anomaly if the right ventricular hypoplasia is not considered an integral and understood part of the primary congenital cardiac diagnosis. It would rarely be coded as a primary and/or isolated diagnosis.

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1300	Hypoplastic LV	Small size of the left ventricle. This morphological abnormality usually is an integral part of other congenital cardiac anomalies and, therefore, frequently does not need to be coded separately. It should, however, be coded as secondary to an accompanying congenital cardiac anomaly if the left ventricular hypoplasia is not considered an integral and understood part of the primary congenital cardiac diagnosis. It would rarely be coded as a primary and/or isolated diagnosis.
2070	Postoperative bleeding	Indicate if the patient has the diagnosis of "Postoperative bleeding".
1310	Mediastinitis	Inflammation/infection of the mediastinum, the cavity between the lungs which holds the heart, great vessels, trachea, esophagus, thymus, and connective tissues. In the United States mediastinitis occurs most commonly following chest surgery.
1320	Endocarditis	An infection of the endocardial surface of the heart, which may involve one or more heart valves (native or prosthetic) or septal defects or prosthetic patch material placed at previous surgery.
1325	Rheumatic heart disease	Heart disease, usually valvar (e.g., mitral or aortic), following an infection with group A streptococci
1330	Prosthetic valve failure	Indicate if the patient has the diagnosis of "Prosthetic valve failure". This diagnosis is the primary diagnosis to be entered for patients undergoing replacement of a previously placed valve (not conduit) prosthesis, whatever type (e.g., bioprosthetic, mechanical, etc.). Failure may be due to, among others, patient somatic growth, malfunction of the prosthesis, or calcification or overgrowth of the prosthesis (e.g., pannus formation). Secondary or fundamental diagnosis would relate to the underlying valve disease entity. As an example, a patient undergoing removal or replacement of a prosthetic pulmonary valve previously placed for pulmonary insufficiency after repair of tetralogy of Fallot would have as a primary diagnosis "Prosthetic valve failure", as a secondary diagnosis "Pulmonary insufficiency", and as a fundamental diagnosis "Tetralogy of Fallot".
1340	Myocardial infarction	A myocardial infarction is the development of myocardial necrosis caused by a critical imbalance between the oxygen supply and demand of the myocardium. While a myocardial infarction may be caused by any process that causes this imbalance it most commonly results from plaque rupture with thrombus formation in a coronary vessel, resulting in an acute reduction of blood supply to a portion of the myocardium. Myocardial infarction is a usual accompaniment of anomalous left coronary artery from the pulmonary artery (ALCAPA).

	jery Database	Version: 2.81
1350	Cardiac tumor	An abnormal growth of tissue in or on the heart, demonstrating partial or complete lack of structural organization, and no functional coordination with normal cardiac tissue. Commonly, a mass is recognized which is distinct from the normal structural components of the heart. A primary cardiac tumor is one that arises directly from tissues of the heart, (e.g., myxoma, fibroelastoma, rhabdomyoma, fibroma, lipoma, pheochromocytoma, teratoma, hemangioma, mesothesioloma, sarcoma). A secondary cardiac tumor is one that arises from tissues distant from the heart, with subsequent spread to the otherwise normal tissues of the heart, (e.g., renal cell tumor with caval extension from the kidney to the level of the heart or tumor with extension from other organs or areas of the body (hepatic, adrenal, uterine, infradiaphragmatic)). N.B., in the nomenclature system developed, cardiac thrombus and cardiac vegetation are categorized as primary cardiac tumors.
1360	Pulmonary AV fistula	An abnormal intrapulmonary connection (fistula) between an artery and vein that occurs in the blood vessels of the lungs. Pulmonary AV fistulas may be seen in association with congenital heart defects; the associated cardiac defect should be coded as well.
1370	Pulmonary embolism	A pulmonary embolus is a blockage of an artery in the lungs by fat, air, clumped tumor cells, or a blood clot.
1385	Pulmonary vascular obstructive disease	Pulmonary vascular obstructive disease (PVOD) other than those specifically defined elsewhere (Eisenmenger's pulmonary vascular obstructive disease, primary pulmonary hypertension, persistent fetal circulation). The spectrum includes PVOD arising from (1) pulmonary arterial hypertension or (2) pulmonary venous hypertension or (3) portal hypertension, or (4) collage vascular disease, or (5) drug or toxin induced, or (6) diseases of the respiratory system, or (7) chronic thromboembolic disease, among others.
1390	Pulmonary vascular obstructive disease (Eisenmenger's)	"Eisenmenger syndrome" could briefly be described as "Acquired severe pulmonary vascular disease associated with congenital heart disease (Eisenmenger)". Eisenmenger syndrome is an acquired condition. In Eisenmenger-type pulmonary vascular obstructive disease, long-term left-to-right shunting (e.g., through a ventricular or atrial septal defect, patent ductus arteriosus, aortopulmonary window) can lead to chronic pulmonary hypertension with resultant pathological changes in the pulmonary vessels. The vessels become thick-walled, stiff, noncompliant, and may be obstructed. In Eisenmenger syndrome, the long-term left-to-right shunting will reverse and become right to left. Please note that the specific heart defect should be coded as a secondary diagnosis.
1400	Primary pulmonary	Primary pulmonary hypertension is a rare disease

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	hypertension	characterized by elevated pulmonary artery hypertension with no apparent cause. Two forms are included in the nomenclature, a sporadic form and a familial form which can be linked to the BMPR-II gene.
1410	Persistent fetal circulation	Persistence of the blood flow pattern seen in fetal life, in which high pulmonary vascular resistance in the lungs results in decreased blood flow to the lungs. Normally, after birth pulmonary pressure falls with a fall in pulmonary vascular resistance and there is increased perfusion of the lungs. Persistent fetal circulation, also known as persistent pulmonary hypertension of the newborn, can be related to lung or diaphragm malformations or lung immaturity.
1420	Meconium aspiration	Aspiration of amniotic fluid stained with meconium before, during, or after birth can lead to pulmonary sequelae including (1) pneumothorax, (2) pneumomediastinum, (3) pneumopericardium, (4) lung infection, and (5) meconium aspiration syndrome (MAS) with persistent pulmonary hypertension.
2250	Kawasaki disease	Kawasaki disease, also known as Kawasaki syndrome, is an acute febrile illness of unknown etiology that primarily affects children younger than 5 years of age. it was first described in Japan in 1967, and the first cases outside of Japan were reported in Hawaii in 1976. It is characterized by fever, rash, swelling of the hands and feet, irritation and redness of the whites of the eyes, swollen lymph glands in the neck, and irritation and inflammation of the mouth, lips, and throat. Serious complications of Kawasaki disease include coronary artery dilations and aneurysms, and Kawasaki disease is a leading cause of acquired heart disease in children in the United States. The standard treatment with intravenous immunoglobulin and aspirin substantially decreases the development of coronary artery abnormalities.
1560	Cardiac, Other	Any cardiac diagnosis not specifically delineated in other diagnostic codes.
1570	Thoracic and/or mediastinal, Other	Any thoracic and/or mediastinal disease not specifically delineated in other diagnostic codes.
1580	Peripheral vascular, Other	Any peripheral vascular disease (congenital or acquired) or injury (from trauma or iatrogenic); vessels involved may include, but are not limited to femoral artery, femoral vein, iliac artery, brachial artery, etc.
2260	Complication of cardiovascular catheterization procedure	Unspecified complication of cardiovascular catheterization procedure
2270	Complication of cardiovascular catheterization procedure, Device embolization	Migration or movement of device introduced during a cardiac catheterization procedure to an unintended location

2280	Complication of cardiovascular catheterization procedure, Device malfunction	Malfunction of a device introduced during a cardiac catheterization procedure
2290	Complication of cardiovascular catheterization procedure, Perforation	Perforation or puncture caused by a device introduced during a cardiac catheterization procedure
2300	Complication of interventional radiology procedure	Unspecified complication of interventional radiology procedure
2310	Complication of interventional radiology procedure, Device embolization	Migration or movement of device introduced during an interventional radiology procedure to an unintended location
2320	Complication of interventional radiology procedure, Device malfunction	Malfunction of a device introduced during an interventional radiology procedure
2330	Complication of interventional radiology procedure, Perforation	Perforation or puncture caused by a device introduced during an interventional radiology procedure
2340	Foreign body, Intracardiac foreign body	Presence of a foreign body within the heart
2350	Foreign body, Intravascular foreign body	Presence of a foreign body within an artery or vein
2360	Open sternum with closed skin	Sternotomy edges not re-approximated prior to closure of skin incision
2370	Open sternum with open skin (includes membrane placed to close skin)	Sternotomy and skin incision left open following surgery, covered with a membrane or dressing
2380	Retained sternal wire causing irritation	Surgically placed wire causing soft tissue irritation, pain or swelling (not infected)
2390	Syncope	A transient, self-limited loss of consciousness with an inability to maintain postural tone that is followed by spontaneous recovery. The term syncope excludes seizures, coma, shock, or other states of altered consciousness.
2400	Trauma, Blunt	Injury (ies) sustained from blunt force, caused by motor vehicle accidents, falls, blows or crush injuries
2410	Trauma, Penetrating	Injury (ies) sustained as a result of sharp force, including cutting or piercing instruments or objects, bites, or firearm injuries from projectiles.
7000	Normal heart	Normal heart.
7777	Miscellaneous, Other	Any disease (congenital or acquired) not specifically delineated in other diagnostic codes.
4010	Status post - PFO, Primary closure	

- 4020 Status post - ASD repair, Primary closure 4030 Status post - ASD repair, Patch 4040 Status post - ASD repair, Device 6110 Status post - ASD repair, Patch + PAPVC repair 4050 Status post - ASD, Common atrium (single atrium), Septation 4060 Status post - ASD creation/enlargement 4070 Status post - ASD partial closure 4080 Status post - Atrial septal fenestration 4085 Status post - Atrial fenestration closure 4100 Status post - VSD repair, Primary closure 4110 Status post - VSD repair, Patch 4120 Status post - VSD repair, Device 4130 Status post - VSD, Multiple, Repair
- 4140 Status post VSD creation/enlargement
- 4150 Status post Ventricular septal fenestration
- 4170 Status post AVC (AVSD) repair, Complete (CAVSD)
- 4180 Status post AVC (AVSD) repair, Intermediate (Transitional)
- 4190 Status post AVC (AVSD) repair, Partial (Incomplete) (PAVSD)
- 6300 Status post Valvuloplasty, Common atrioventricular valve
- 6250 Status post Valvuloplasty converted to valve replacement in the same operation, Common

atrioventricular valve

6230	Status post - Valve
	replacement, Common
	atrioventricular valve

- 4210 Status post AP window repair
- 4220 Status post Pulmonary artery origin from ascending aorta (hemitruncus) repair
- 4230 Status post Truncus arteriosus repair
- 4240 Status post Valvuloplasty, Truncal valve
- 6290 Status post Valvuloplasty converted to valve replacement in the same operation, Truncal valve
- 4250 Status post Valve replacement, Truncal valve
- 6220 Status post Truncus + Interrupted aortic arch repair (IAA) repair
- 4260 Status post PAPVC repair
- 4270 Status post PAPVC, Scimitar, Repair
- 6120 Status post PAPVC repair, Baffle redirection to left atrium with systemic vein translocation (Warden) (SVC sewn to right atrial appendage)
- 4280 Status post TAPVC repair
- 6200 Status post TAPVC repair + Shunt - systemic-topulmonary
- 4290 Status post Cor triatriatum repair
- 4300 Status post Pulmonary venous stenosis repair
- 4310 Status post Atrial baffle procedure (non-Mustard, non-Senning)
- 4330 Status post Anomalous systemic venous connection repair
- 4340 Status post Systemic venous stenosis repair

- 4350 Status post TOF repair, No ventriculotomy
- 4360 Status post TOF repair, Ventriculotomy, Nontransanular patch
- 4370 Status post TOF repair, Ventriculotomy, Transanular patch
- 4380 Status post TOF repair, RV-PA conduit
- 4390 Status post TOF AVC (AVSD) repair
- 4400 Status post TOF Absent pulmonary valve repair
- 4420 Status post Pulmonary atresia - VSD (including TOF, PA) repair
- 6700 Status post Pulmonary atresia - VSD - MAPCA repair, Complete single stage repair (1-stage that includes bilateral pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])
- 6710 Status post Pulmonary atresia - VSD - MAPCA repair, Status post prior complete unifocalization (includes VSD closure + RV to PA connection [with or without conduit])
- 6720 Status post Pulmonary atresia - VSD - MAPCA repair, Status post prior incomplete unifocalizarion (includes completion of pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])
- 6730 Status post Unifocalization MAPCA(s), Bilateral pulmonary unifocalization -Complete unifocalization (all usable MAPCA[s] are incorporated)
- 6740 Status post Unifocalization

MAPCA(s), Bilateral pulmonary unifocalization -Incomplete unifocalization (not all usable MAPCA[s] are incorporated)

- 6750 Status post Unifocalization MAPCA(s), Unilateral pulmonary unifocalization
- 4440 Status post Unifocalization MAPCA(s)
- 4450 Status post Occlusion of MAPCA(s)
- 4460 Status post Valvuloplasty, Tricuspid
- 6280 Status post Valvuloplasty converted to valve replacement in the same operation, Tricuspid
- 4465 Status post Ebstein's repair
- 4470 Status post Valve replacement, Tricuspid (TVR)
- 4480 Status post Valve closure, Tricuspid (exclusion, univentricular approach)
- 4490 Status post Valve excision, Tricuspid (without replacement)
- 4500 Status post Valve surgery, Other, Tricuspid
- 4510 Status post RVOT procedure
- 4520 Status post 1 1/2 ventricular repair
- 4530 Status post PA, reconstruction (plasty), Main (trunk)
- 4540 Status post PA, reconstruction (plasty), Branch, Central (within the hilar bifurcation)
- 4550 Status post PA, reconstruction (plasty), Branch, Peripheral (at or beyond the hilar bifurcation)
- 4570 Status post DCRV repair
- 4590 Status post Valvuloplasty, Pulmonic

6270	Status post - Valvuloplasty converted to valve replacement in the same operation, Pulmonic
4600	Status post - Valve replacement, Pulmonic (PVR)
4630	Status post - Valve excision, Pulmonary (without replacement)
4640	Status post - Valve closure, Semilunar
4650	Status post - Valve surgery, Other, Pulmonic
4610	Status post - Conduit placement, RV to PA
4620	Status post - Conduit placement, LV to PA
5774	Status post - Conduit placement, Ventricle to aorta
5772	Status post - Conduit placement, Other
4580	Status post - Conduit reoperation
4660	Status post - Valvuloplasty, Aortic
6240	Status post - Valvuloplasty converted to valve replacement in the same operation, Aortic
6310	Status post - Valvuloplasty converted to valve replacement in the same operation, Aortic – with Ross procedure
6320	Status post - Valvuloplasty converted to valve replacement in the same operation, Aortic – with Ross- Konno procedure
4670	Status post - Valve replacement, Aortic (AVR)
4680	Status post - Valve replacement, Aortic (AVR), Mechanical
1000	

4690 Status post - Valve replacement, Aortic (AVR), Bioprosthetic

4700	Status post - Valve replacement, Aortic (AVR), Homograft
4715	Status post - Aortic root replacement, Bioprosthetic
4720	Status post - Aortic root replacement, Mechanical
4730	Status post - Aortic root replacement, Homograft
4735	Status post - Aortic root replacement, Valve sparing
4740	Status post - Ross procedure
4750	Status post - Konno procedure
4760	Status post - Ross-Konno procedure
4770	Status post - Other annular enlargement procedure
4780	Status post - Aortic stenosis, Subvalvar, Repair
6100	Status post - Aortic stenosis, Subvalvar, Repair, With myectomy for IHSS
4790	Status post - Aortic stenosis, Supravalvar, Repair
4800	Status post - Valve surgery, Other, Aortic
4810	Status post - Sinus of Valsalva, Aneurysm repair
4820	Status post - LV to aorta tunnel repair
4830	Status post - Valvuloplasty, Mitral
6260	Status post - Valvuloplasty converted to valve replacement in the same operation, Mitral
4840	Status post - Mitral stenosis, Supravalvar mitral ring repair
4850	Status post - Valve replacement, Mitral (MVR)
4860	Status post - Valve surgery, Other, Mitral
4870	Status post - Norwood procedure

4880 Status post - HLHS

biventricular repair

- 6755 Status post Conduit insertion right ventricle to pulmonary artery + Intraventricular tunnel left ventricle to neoaorta + Arch reconstruction (Rastelli and Norwood type arch reconstruction) (Yasui)
- 6160 Status post Hybrid Approach "Stage 1", Application of RPA & LPA bands
- 6170 Status post Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA)
- 6180 Status post Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA) + application of RPA & LPA bands
- 6140 Status post Hybrid approach "Stage 2", Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Aortic arch repair (Norwood [Stage 1] + Superior Cavopulmonary anastomosis(es) + PA Debanding)
- 6150 Status post Hybrid approach "Stage 2", Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Without aortic arch repair
- 6760 Status post Hybrid Approach, Transcardiac balloon dilation
- 6770 Status post Hybrid Approach, Transcardiac transcatheter device placement
- 1590 Status post Transplant, Heart
- 1610 Status post Transplant, Heart and lung
- 4910 Status post Partial left

ventriculectomy (LV volume reduction surgery) (Batista)

- 4920 Status post Pericardial drainage procedure
- 4930 Status post Pericardiectomy
- 4940 Status post Pericardial procedure, Other
- 4950 Status post Fontan, Atriopulmonary connection
- 4960 Status post Fontan, Atrioventricular connection
- 4970 Status post Fontan, TCPC, Lateral tunnel, Fenestrated
- 4980 Status post Fontan, TCPC, Lateral tunnel, Nonfenestrated
- 5000 Status post Fontan, TCPC, External conduit, Fenestrated
- 5010 Status post Fontan, TCPC, External conduit, Nonfenestrated
- 6780 Status post Fontan, TCPC, Intra/extracardiac conduit, Fenestrated
- 6790 Status post Fontan, TCPC, Intra/extracardiac conduit, Nonfenestrated
- 5025 Status post Fontan revision or conversion (Re-do Fontan)
- 5030 Status post Fontan, Other
- 6340 Status post Fontan + Atrioventricular valvuloplasty
- 5035 Status post Ventricular septation
- 5050 Status post Congenitally corrected TGA repair, Atrial switch and ASO (double switch)
- 5060 Status post Congenitally corrected TGA repair, Atrial switch and Rastelli
- 5070 Status post Congenitally corrected TGA repair, VSD closure
- 5080 Status post Congenitally corrected TGA repair, VSD closure and LV to PA conduit

- 5090 Status post - Congenitally corrected TGA repair, Other 5110 Status post - Arterial switch operation (ASO) 5120 Status post - Arterial switch operation (ASO) and VSD repair 5123 Status post - Arterial switch procedure + Aortic arch repair 5125 Status post - Arterial switch procedure and VSD repair + Aortic arch repair 5130 Status post - Senning
- 5140 Status post Mustard
- 5145 Status post Atrial baffle procedure, Mustard or Senning revision
- 5150 Status post Rastelli
- 5160 Status post REV
- 6190 Status post Aortic root translocation over left ventricle (Including Nikaidoh procedure)
- 6210 Status post TGA, Other procedures (Kawashima, LV-PA conduit, other)
- 5180 Status post DORV, Intraventricular tunnel repair
- 5200 Status post DOLV repair
- 5210 Status post Coarctation repair, End to end
- 5220 Status post Coarctation repair, End to end, Extended
- 5230 Status post Coarctation repair, Subclavian flap
- 5240 Status post Coarctation repair, Patch aortoplasty
- 5250 Status post Coarctation repair, Interposition graft
- 5260 Status post Coarctation repair, Other
- 5275 Status post Coarctation repair + VSD repair
- 5280 Status post Aortic arch repair
- 5285 Status post Aortic arch

	repair + VSD repair
5290	Status post - Coronary artery fistula ligation
5291	Status post - Anomalous origin of coronary artery from pulmonary artery repair
5300	Status post - Coronary artery bypass
5305	Status post - Anomalous aortic origin of coronary artery (AAOCA) repair
5310	Status post - Coronary artery procedure, Other
5320	Status post - Interrupted aortic arch repair
5330	Status post - PDA closure, Surgical
5340	Status post - PDA closure, Device
5360	Status post - Vascular ring repair
5365	Status post - Aortopexy
5370	Status post - Pulmonary artery sling repair
5380	Status post - Aortic aneurysm repair
5390	Status post - Aortic dissection repair
5400	Status post - Lung biopsy
1600	Status post - Transplant, Lung(s)
5420	Status post - Lung procedure, Other
5440	Status post - Tracheal procedure
6800	Status post - Muscle flap, Trunk (i.e., intercostal, pectus, or serratus muscle)
6810	Status post - Muscle flap, Trunk (i.e. latissimus dorsi)
6820	Status post - Removal, Sternal wire

- 6830 Status post Rib excision, Complete
- 6840 Status post Rib excision,

Partial

- 6850 Status post Sternal fracture open treatment
- 6860 Status post Sternal resection, Radical resection of sternum
- 6870 Status post Sternal resection, Radical resection of sternum with mediastinal lymphadenectomy
- 6880 Status post Tumor of chest wall - Excision including ribs
- 6890 Status post Tumor of chest wall - Excision including ribs, With reconstruction
- 6900 Status post Tumor of soft tissue of thorax - Excision of deep subfascial or intramuscular tumor
- 6910 Status post Tumor of soft tissue of thorax - Excision of subcutaneous tumor
- 6920 Status post Tumor of soft tissue of thorax - Radical resection
- 6930 Status post Hyoid myotomy and suspension
- 6940 Status post Muscle flap, Neck
- 6950 Status post Procedure on neck
- 6960 Status post Tumor of soft tissue of neck - Excision of deep subfascial or intramuscular tumor
- 6970 Status post Tumor of soft tissue of neck - Excision of subcutaneous tumor
- 6980 Status post Tumor of soft tissue of neck - Radical resection
- 6990 Status post Pectus bar removal
- 7005 Status post Pectus bar repositioning
- 7010 Status post Pectus repair, Minimally invasive repair (Nuss), With thoracoscopy

- 7020 Status post Pectus repair, Minimally invasive repair (Nuss), Without thoracoscopy
- 7030 Status post Pectus repair, Open repair
- 7040 Status post Division of scalenus anticus, With resection of a cervical rib
- 7050 Status post Division of scalenus anticus, Without resection of a cervical rib
- 7060 Status post Rib excision, Excision of cervical rib
- 7070 Status post Rib excision, Excision of cervical rib, With sympathectomy
- 7080 Status post Rib excision, Excision of first rib
- 7090 Status post Rib excision, Excision of first rib, With sympathectomy
- 7100 Status post Procedure on thorax
- 5450 Status post Pacemaker implantation, Permanent
- 5460 Status post Pacemaker procedure
- 6350 Status post Explantation of pacing system
- 5470 Status post ICD (AICD) implantation
- 5480 Status post ICD (AICD) ([automatic] implantable cardioverter defibrillator) procedure
- 5490 Status post Arrhythmia surgery - atrial, Surgical Ablation
- 5500 Status post Arrhythmia surgery - ventricular, Surgical Ablation
- 6500 Status post Cardiovascular catheterization procedure, Diagnostic
- 6520 Status post Cardiovascular catheterization procedure,

Diagnostic, Angiographic data obtained

- 6550 Status post Cardiovascular catheterization procedure, Diagnostic, Electrophysiology alteration
- 6540 Status post Cardiovascular catheterization procedure, Diagnostic, Hemodynamic alteration
- 6510 Status post Cardiovascular catheterization procedure, Diagnostic, Hemodynamic data obtained
- 6530 Status post Cardiovascular catheterization procedure, Diagnostic, Transluminal test occlusion
- 6410 Status post Cardiovascular catheterization procedure, Therapeutic
- 6670 Status post Cardiovascular catheterization procedure, Therapeutic, Adjunctive therapy
- 6570 Status post Cardiovascular catheterization procedure, Therapeutic, Balloon dilation
- 6590 Status post Cardiovascular catheterization procedure, Therapeutic, Balloon valvotomy
- 6600 Status post Cardiovascular catheterization procedure, Therapeutic, Coil implantation
- 6610 Status post Cardiovascular catheterization procedure, Therapeutic, Device implantation
- 7110 Status post Cardiovascular catheterization procedure, Therapeutic, Device implantation attempted
- 6690 Status post Cardiovascular catheterization procedure, Therapeutic, Electrophysiological ablation
- 7120 Status post Cardiovascular

catheterization procedure, Therapeutic, Intravascular foreign body removal

- 6640 Status post Cardiovascular catheterization procedure, Therapeutic, Perforation (establishing interchamber and/or intervessel communication)
- 6580 Status post Cardiovascular catheterization procedure, Therapeutic, Septostomy
- 6620 Status post Cardiovascular catheterization procedure, Therapeutic, Stent insertion
- 6630 Status post Cardiovascular catheterization procedure, Therapeutic, Stent re-dilation
- 6650 Status post Cardiovascular catheterization procedure, Therapeutic, Transcatheter Fontan completion
- 6660 Status post Cardiovascular catheterization procedure, Therapeutic, Transcatheter implantation of valve
- 5590 Status post Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS)
- 5600 Status post Shunt, Systemic to pulmonary, Central (shunt from aorta)
- 7130 Status post Shunt, Systemic to pulmonary, Central (shunt from aorta), Central shunt with an end-to-side connection between the transected main pulmonary artery and the side of the ascending aorta (i.e. Mee shunt)
- 5610 Status post Shunt, Systemic to pulmonary, Other
- 5630 Status post Shunt, Ligation and takedown
- 6095 Status post Shunt, Reoperation

- 5640 Status post PA banding (PAB)
- 5650 Status post PA debanding
- 5660 Status post Damus-Kaye-Stansel procedure (DKS) (creation of AP anastomosis without arch reconstruction)
- 5670 Status post Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn)
- 5680 Status post Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn)
- 5690 Status post Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn)
- 5700 Status post HemiFontan
- 6330 Status post Superior cavopulmonary anastomosis(es) (Glenn or HemiFontan) + Atrioventricular valvuloplasty
- 6130 Status post Superior Cavopulmonary anastomosis(es) + PA reconstruction
- 7140 Status post Hepatic vein to azygous vein connection, Direct
- 7150 Status post Hepatic vein to azygous vein connection, Interposition graft
- 7160 Status post Kawashima operation (superior cavopulmonary connection in setting of interrupted IVC with azygous continuation)
- 5710 Status post Palliation, Other
- 6360 Status post ECMO cannulation
- 6370 Status post ECMO decannulation
- 5910 Status post ECMO procedure
- 5900 Status post Intraaortic

balloon pump (IABP) insertion

- 5920 Status post Right/left heart assist device procedure
- 6390 Status post VAD explantation
- 6380 Status post VAD implantation
- 7170 Status post VAD change out
- 6420 Status post -Echocardiography procedure, Sedated transesophageal echocardiogram
- 6430 Status post -Echocardiography procedure, Sedated transthoracic echocardiogram
- 6435 Status post Noncardiovascular, Non-thoracic procedure on cardiac patient with cardiac anesthesia
- 6440 Status post Radiology procedure on cardiac patient, Cardiac Computerized Axial Tomography (CT Scan)
- 6450 Status post Radiology procedure on cardiac patient, Cardiac Magnetic Resonance Imaging (MRI)
- 6460 Status post Radiology procedure on cardiac patient, Diagnostic radiology
- 6470 Status post Radiology procedure on cardiac patient, Non-Cardiac Computerized Tomography (CT) on cardiac patient
- 6480 Status post Radiology procedure on cardiac patient, Non-cardiac Magnetic Resonance Imaging (MRI) on cardiac patient
- 6490 Status post Radiology procedure on cardiac patient, Therapeutic radiology
- 5720 Status post Aneurysm, Ventricular, Right, Repair
- 5730 Status post Aneurysm,

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	Ventricular, Left, Repair
5740	Status post - Aneurysm, Pulmonary artery, Repair
5760	Status post - Cardiac tumor resection
5780	Status post - Pulmonary AV fistula repair/occlusion
5790	Status post - Ligation, Pulmonary artery
5802	Status post - Pulmonary embolectomy, Acute pulmonary embolus
5804	Status post - Pulmonary embolectomy, Chronic pulmonary embolus
5810	Status post - Pleural drainage procedure
5820	Status post - Pleural procedure, Other
5830	Status post - Ligation, Thoracic duct
5840	Status post - Decortication
5850	Status post - Esophageal procedure
5860	Status post - Mediastinal procedure
5870	Status post - Bronchoscopy
5880	Status post - Diaphragm plication
5890	Status post - Diaphragm procedure, Other
5930	Status post - VATS (video- assisted thoracoscopic surgery)
5940	Status post - Minimally invasive procedure
5950	Status post - Bypass for noncardiac lesion
5960	Status post - Delayed sternal closure
5970	Status post - Mediastinal exploration
5980	Status post - Sternotomy wound drainage

- wound drainage
- 7180 Status post Intravascular

	stent removal				
	5990	Status post - Thoracotomy, Other			
6000 Status post - Cardiotomy, Other					
	6010	Status post - Cardiac procedure, Other			
	6020	Status post - Thoracic and/or mediastinal procedure, Other			
	6030	Status post - Peripheral vascular procedure, Other			
	6040	Status post - Miscellaneous procedure, Other			
	11777	Status post - Other procedure			
Long Name:	Other	Card-Congenital Procedure 1		SeqNo:	4515
Short Name:	OCarO	CongProc1		Core:	Yes
Section Name: Other Cardiac Procedures			Harvest:	Yes	

DBTableName AdultData

Definition: Indicate the first of the three most significant congenital procedures.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Other Card-Congenital	Format:	Text (categorical values specified by STS)
ParentShortName:	OCarCong	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
	_		

ParentHarvestCodes: 1

Harvest Codes and Value Definitions:

Code:	Value:	Definition:
10	PFO, Primary closure	Suture closure of patent foramen ovale (PFO).
20	ASD repair, Primary closure	Suture closure of secundum (most frequently), coronary sinus, sinus venosus or common atrium ASD.
30	ASD repair, Patch	Patch closure (using any type of patch material) of secundum, coronary sinus, or sinus venosus ASD.
40	ASD repair, Device	Closure of any type ASD (including PFO) using a device.
2110	ASD repair, Patch + PAPVC repair	Patch closure (using any type of patch material) of secundum, coronary sinus, or sinus venosus ASD plus PAPVC repair, any type
50	ASD, Common atrium (single atrium), Septation	Septation of common (single) atrium using any type patch material.
60	ASD creation/enlargement	Creation of an atrial septal defect or enlargement of an existing atrial septal defect using a variety of modalities

ac Surgery Database Version: 2.81			
		including balloon septostomy, blade septostomy, or surgical septectomy. Creation may be accomplished with or without use of cardiopulmonary bypass.	
70	ASD partial closure	Intentional partial closure of any type ASD (partial suture or fenestrated patch closure).	
80	Atrial septal fenestration	Creation of a fenestration (window) in the septum between the atrial chambers. Usually performed using a hole punch, creating a specifically sized communication in patch material placed on the atrial septum.	
85	Atrial fenestration closure	Closure of previously created atrial fenestration using any method including device, primary suture, or patch.	
100	VSD repair, Primary closure	Suture closure of any type VSD.	
110	VSD repair, Patch	Patch closure (using any type of patch material) of any type VSD.	
120	VSD repair, Device	Closure of any type VSD using a device.	
130	VSD, Multiple, Repair	Closure of more than one VSD using any method or combination of methods. Further information regarding each type of VSD closed and method of closure can be provided by additionally listing specifics for each VSD closed. In the case of multiple VSDs in which only one is closed the procedure should be coded as closure of a single VSD. The fundamental diagnosis, in this case, would be "VSD, Multiple" and a secondary diagnosis can be the morphological type of VSD that was closed at the time of surgery.	
140	VSD creation/enlargement	Creation of a ventricular septal defect or enlargement of an existing ventricular septal defect.	
150	Ventricular septal fenestration	Creation of a fenestration (window) in the septum between the ventricular chambers. Usually performed using a hole punch, creating a specifically sized communication in patch material placed on the ventricular septum.	
170	AVC (AVSD) repair, Complete (CAVSD)	Repair of complete AV canal (AVSD) using one- or two-patch or other technique, with or without mitral valve cleft repair.	
180	AVC (AVSD) repair, Intermediate (Transitional)	Repair of intermediate AV canal (AVSD) using ASD and VSD patch, or ASD patch and VSD suture, or other technique, with or without mitral valve cleft repair.	
190	AVC (AVSD) repair, Partial (Incomplete) (PAVSD)	Repair of partial AV canal defect (primum ASD), any technique, with or without repair of cleft mitral valve.	
2300	Valvuloplasty, Common atrioventricular valve	Common AV valve repair, any type	
2250	Valvuloplasty converted to valve replacement in the same operation, Common atrioventricular valve	Common AV valve repair attempted, converted to valve replacement with prosthetic valve during the same operation	
2230	Valve replacement, Common	Replacement of the common AV valve with a prosthetic	

diac Surg	liac Surgery Database Version: 2.81				
	atrioventricular valve	valve			
210	AP window repair	Repair of AP window using one- or two-patch technique with cardiopulmonary bypass; or, without cardiopulmonary bypass, using transcatheter device or surgical closure.			
220	Pulmonary artery origin from ascending aorta (hemitruncus) repair	Repair of pulmonary artery origin from the ascending aorta by direct reimplantation, autogenous flap, or conduit, with or without use of cardiopulmonary bypass.			
230	Truncus arteriosus repair	Truncus arteriosus repair that most frequently includes patch VSD closure and placement of a conduit from RV to PA. In some cases, a conduit is not placed but an RV to PA connection is made by direct association. Very rarely, there is no VSD to be closed. Truncal valve repair or replacement should be coded separately (Valvuloplasty, Truncal valve; Valve replacement, Truncal valve), as would be the case as well with associated arch anomalies requiring repair (e.g., Interrupted aortic arch repair).			
240	Valvuloplasty, Truncal valve	Truncal valve repair, any type.			
2290	Valvuloplasty converted to valve replacement in the same operation, Truncal valve	Truncal valve repair attempted, converted to valve replacement with prosthetic valve during the same operation			
250	Valve replacement, Truncal valve	Replacement of the truncal valve with a prosthetic valve.			
2220	Truncus + Interrupted aortic arch repair (IAA) repair	Truncus arteriosus repair usually includes patch VSD closure and placement of a conduit from RV to PA. In some cases, a conduit is not placed but an RV to PA connection is made by direct association. (Very rarely, there is no VSD) plus repair of interrupted aortic arch			
260	PAPVC repair	PAPVC repair revolves around whether an intracardiac baffle is created to redirect pulmonary venous return to the left atrium or if the anomalous pulmonary vein is translocated and connected to the left atrium directly. If there is an associated ASD and it is closed, that procedure should also be listed.			
270	PAPVC, Scimitar, Repair	In scimitar syndrome, PAPVC repair also revolves around whether an intracardiac baffle is created to redirect pulmonary venous return to the left atrium or if the anomalous pulmonary vein is translocated and connected to the left atrium directly. If there is an associated ASD and it is closed, that procedure should also be listed. Occasionally an ASD is created; this procedure also must be listed separately. Concomitant thoracic procedures (e.g., lobectomy, pneumonectomy) should also be included in the procedures listing.			
2120	PAPVC repair, Baffle redirection to left atrium with systemic vein translocation (Warden) (SVC sewn to right atrial appendage)	An intracardiac baffle is created to redirect pulmonary venous return to the left atrium and SVC sewn to right atrial appendage)			

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280	TAPVC repair	Repair of TAPVC, any type. Issues surrounding TAPVC repair involve how the main pulmonary venous confluence anastomosis is fashioned, whether an associated ASD is closed or left open or enlarged (ASD closure and enlargement may be listed separately), and whether, particularly in mixed type TAPVC repair, an additional anomalous pulmonary vein is repaired surgically.
2200	TAPVC repair + Shunt - systemic-to-pulmonary	Repair of TAPVC, any type plus a systemic to pulmonary shunt creation
290	Cor triatriatum repair	Repair of cor triatriatum. Surgical decision making revolves around the approach to the membrane creating the cor triatriatum defect, how any associated ASD is closed, and how any associated anomalous pulmonary vein connection is addressed. Both ASD closure and anomalous pulmonary venous connection may be listed as separate procedures.
300	Pulmonary venous stenosis repair	Repair of pulmonary venous stenosis, whether congenital or acquired. Repair can be accomplished with a variety of approaches: sutureless, patch venoplasty, stent placement, etc.
310	Atrial baffle procedure (non- Mustard, non-Senning)	The atrial baffle procedure code is used primarily for repair of systemic venous anomalies, as in redirection of left superior vena cava drainage to the right atrium.
330	Anomalous systemic venous connection repair	With the exception of atrial baffle procedures (harvest code 310), anomalous systemic venous connection repair includes a range of surgical approaches, including, among others: ligation of anomalous vessels, reimplantation of anomalous vessels (with or without use of a conduit), or redirection of anomalous systemic venous flow through directly to the pulmonary circulation (bidirectional Glenn to redirect LSVC or RSVC to left or right pulmonary artery, respectively).
340	Systemic venous stenosis repair	Stenosis or obstruction of a systemic vein (most commonly SVC or IVC) may be relieved with patch or conduit placement, excision of the stenotic area with primary reanastomosis or direct reimplantation.
350	TOF repair, No ventriculotomy	Tetralogy of Fallot repair (assumes VSD closure and relief of pulmonary stenosis at one or more levels), without use of an incision in the infundibulum of the right ventricle for exposure. In most cases this would be a transatrial and transpulmonary artery approach to repair the VSD and relieve the pulmonary stenosis. If the main pulmonary artery incision is extended proximally through the pulmonary annulus, this must be considered "transannular" and thus a ventricular incision, though the length of the incision onto the ventricle itself may be minimal.
360	TOF repair, Ventriculotomy, Nontransanular patch	Tetralogy of Fallot repair (assumes VSD closure and relief of pulmonary stenosis at one or more levels), with

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		use of a ventriculotomy incision, but without placement of a trans-pulmonary annulus patch. If the main pulmonary artery incision is extended proximally through the pulmonary annulus, this must be considered "transannular" and thus a ventricular incision, though the length of the incision onto the ventricle itself may be minimal.
370	TOF repair, Ventriculotomy, Transanular patch	Tetralogy of Fallot repair (assumes VSD closure and relief of pulmonary stenosis at one or more levels), with use of a ventriculotomy incision and placement of a trans-pulmonary annulus patch. If the main pulmonary artery incision is extended proximally through the pulmonary annulus, this must be considered "transannular" and thus a ventricular incision, though the length of the incision onto the ventricle itself may be minimal.
380	TOF repair, RV-PA conduit	Tetralogy of Fallot repair (assumes VSD closure and relief of pulmonary stenosis at one or more levels), with placement of a right ventricle-to-pulmonary artery conduit. In this procedure the major components of pulmonary stenosis are relieved with placement of the RV-PA conduit.
390	TOF - AVC (AVSD) repair	Tetralogy of Fallot repair (assumes VSD closure and relief of pulmonary stenosis at one or more levels), with repair of associated AV canal defect. Repair of associated atrial septal defect or atrioventricular valve repair(s) should be listed as additional or secondary procedures under the primary TOF-AVC procedure.
400	TOF - Absent pulmonary valve repair	Repair of tetralogy of Fallot with absent pulmonary valve complex. In most cases this repair will involve pulmonary valve replacement (pulmonary or aortic homograft, porcine, other) and reduction pulmonary artery arterioplasty.
420	Pulmonary atresia - VSD (including TOF, PA) repair	For patients with pulmonary atresia with ventricular septal defect without MAPCAs, including those with tetralogy of Fallot with pulmonary atresia, repair may entail either a tetralogy-like repair with transannular patch placement, a VSD closure with placement of an RV-PA conduit, or an intraventricular tunnel VSD closure with transannular patch or RV-PA conduit placement. To assure an accurate count of repairs of pulmonary atresia-VSD without MAPCAs, even if a tetralogy-type repair or Rastelli-type repair is used, the pulmonary atresia-VSD code should be the code used, not Rastelli procedure or tetralogy of Fallot repair with transannular patch.
2700	Pulmonary atresia - VSD - MAPCA repair, Complete single stage repair (1-stage that includes bilateral pulmonary unifocalization +	1-stage repair that includes bilateral pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])

VSD closure + RV to PA connection [with or without conduit])

- 2710 Pulmonary atresia VSD -MAPCA repair, Status post prior complete unifocalization (includes VSD closure + RV to PA connection [with or without conduit])
- 2720 Pulmonary atresia VSD -MAPCA repair, Status post prior incomplete unifocalization (includes completion of pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])
- 2730 Unifocalization MAPCA(s), Bilateral pulmonary unifocalization - Complete unifocalization (all usable MAPCA[s] are incorporated)
- 2740 Unifocalization MAPCA(s), Bilateral pulmonary unifocalization - Incomplete unifocalization (not all usable MAPCA[s] are incorporated)
- 2750 Unifocalization MAPCA(s), Unilateral pulmonary unifocalization
- 440 Unifocalization MAPCA(s)
- 450 Occlusion of MAPCA(s)
- 460 Valvuloplasty, Tricuspid

VSD closure + RV to PA connection [with or without conduit])

Completion of pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])Pulmonary atresia - VSD - MAPCA repair, Status post prior incomplete unifocalization

Complete unifocalization , all usable MAPCA[s] are incorporated

Incomplete unifocalization, not all usable MAPCA[s] are incorporated

MAPCA(s), Unilateral pulmonary unifocalization (one side)

Anastomosis of aortopulmonary collateral arteries into the left, right, or main pulmonary artery or into a tube graft or other type of confluence. The unifocalization procedure may be done on or off bypass.

Occlusion, or closing off, of MAPCAs. This may be done with a transcatheter occluding device, usually a coil, or by surgical techniques.

Reconstruction of the tricuspid valve may include but not be limited to a wide range of techniques including: leaflet patch extension, artificial chordae placement, and papillary muscle translocation with or without detachment. Annuloplasty techniques that may be done solely or in combination with leaflet, chordae or muscle repair to achieve a competent valve include: eccentric annuloplasty, Kay annular plication, purse-string annuloplasty (including semicircular annuloplasty), sliding annuloplasty, and annuloplasty with ring placement. Do not use this code if tricuspid valve malfunction is secondary to Ebstein's anomaly; instead

		use the Ebstein's repair procedure code.
2280	Valvuloplasty converted to valve replacement in the same operation, Tricuspid	Tricuspid valve repair attempted, converted to valve replacement with prosthetic valve during the same operation
465	Ebstein's repair	To assure an accurate count of repairs of Ebstein's anomaly of the tricuspid valve, this procedure code was included. Repair of Ebstein's anomaly may include, among other techniques, repositioning of the tricuspid valve, plication of the atrialized right ventricle, or right reduction atrioplasty. Often associated ASD's may be closed and arrhythmias addressed with surgical ablation procedures. These procedures should be entered as separate procedure codes.
470	Valve replacement, Tricuspid (TVR)	Replacement of the tricuspid valve with a prosthetic valve.
480	Valve closure, Tricuspid (exclusion, univentricular approach)	In a functional single ventricle heart, the tricuspid valve may be closed using a patch, thereby excluding the RV. Tricuspid valve closure may be used for infants with Ebstein's anomaly and severe tricuspid regurgitation or in patients with pulmonary atresia-intact ventricular septum with sinusoids.
490	Valve excision, Tricuspid (without replacement)	Excision of the tricuspid valve without placement of a prosthetic valve.
500	Valve surgery, Other, Tricuspid	Other tricuspid valve surgery not specified in procedure codes.
510	RVOT procedure	Included in this procedural code would be all RVOT procedures not elsewhere specified in the nomenclature system. These might be, among others: resection of subvalvar pulmonary stenosis (not DCRV type; may be localized fibrous diaphragm or high infundibular stenosis), right ventricular patch augmentation, or reduction pulmonary artery arterioplasty.
520	1 1/2 ventricular repair	Partial biventricular repair; includes intracardiac repair with bidirectional cavopulmonary anastomosis to volume unload a small ventricle or poorly functioning ventricle.
530	PA, reconstruction (plasty), Main (trunk)	Reconstruction of the main pulmonary artery trunk commonly using patch material. If balloon angioplasty is performed or a stent is placed in the main pulmonary artery intraoperatively, this code may be used in addition to the balloon dilation or stent placement code. If MPA reconstruction is performed with PA debanding, both codes should be listed.
540	PA, reconstruction (plasty), Branch, Central (within the hilar bifurcation)	Reconstruction of the right or left branch (or both right and left) pulmonary arteries (within the hilar bifurcation) commonly using patch material. If balloon angioplasty is performed or a stent is placed in the right or left (or both) pulmonary artery intraoperatively, this code may be used in addition to the balloon dilation or

stent placement code. If, rarely, branch PA banding

		(single or bilateral) was performed in the past and reconstruction is performed associated with debanding, both codes should be listed.
550	PA, reconstruction (plasty), Branch, Peripheral (at or beyond the hilar bifurcation)	Reconstruction of the peripheral right or left branch (or both right and left) pulmonary arteries (at or beyond the hilar bifurcation) commonly using patch material. If balloon angioplasty is performed or a stent is placed in the right or left (or both) peripheral pulmonary artery intraoperatively, this code may be used in addition to the balloon dilation or stent placement code.
570	DCRV repair	Surgical repair of DCRV combines relief of the low infundibular stenosis (via muscle resection) and closure of a VSD when present. A ventriculotomy may be required and is repaired by patch enlargement of the infundibulum. VSD closure and patch enlargement of the infundibulum, if done, should be listed as separate procedure codes.
590	Valvuloplasty, Pulmonic	Valvuloplasty of the pulmonic valve may include a range of techniques including but not limited to: valvotomy with or without bypass, commissurotomy, and valvuloplasty.
2270	Valvuloplasty converted to valve replacement in the same operation, Pulmonic	Pulmonic valve repair attempted, converted to valve replacement with prosthetic valve during the same operation
600	Valve replacement, Pulmonic (PVR)	Replacement of the pulmonic valve with a prosthetic valve. Care must be taken to differentiate between homograft pulmonic valve replacement and placement of a homograft RV-PA conduit.
630	Valve excision, Pulmonary (without replacement)	Excision of the pulmonary valve without placement of a prosthetic valve.
640	Valve closure, Semilunar	Closure of a semilunar valve (pulmonic or aortic) by any technique.
650	Valve surgery, Other, Pulmonic	Other pulmonic valve surgery not specified in procedure codes.
610	Conduit placement, RV to PA	Placement of a conduit, any type, from RV to PA.
620	Conduit placement, LV to PA	Placement of a conduit, any type, from LV to PA.
1774	Conduit placement, Ventricle to aorta	Placement of a conduit from the right or left ventricle to the aorta.
1772	Conduit placement, Other	Placement of a conduit from any chamber or vessel to any vessel, valved or valveless, not listed elsewhere.
580	Conduit reoperation	Conduit reoperation is the code to be used in the event of conduit failure, in whatever position (LV to aorta, LV to PA, RA to RV, RV to aorta, RV to PA, etc.), and from whatever cause (somatic growth, stenosis, insufficiency, infection, etc.).
660	Valvuloplasty, Aortic	Valvuloplasty of the aortic valve for stenosis and/or insufficiency including, but not limited to the following techniques: valvotomy (open or closed),

commissurotomy, aortic valve suspension, leaflet (left, right or noncoronary) partial resection, reduction, or leaflet shaving, extended valvuloplasty (freeing of leaflets, commissurotomy, and extension of leaflets using autologous or bovine pericardium), or annuloplasty (partial - interrupted or noncircumferential sutures, or complete - circumferential sutures).

- 2240 Valvuloplasty converted to valve replacement in the same operation, Aortic
- 2310 Valvuloplasty converted to valve replacement in the same operation, Aortic – with Ross procedure
- 2320 Valvuloplasty converted to valve replacement in the same operation, Aortic – with Ross-Konno procedure
- 670 Valve replacement, Aortic (AVR)
- 680 Valve replacement, Aortic (AVR), Mechanical
- 690 Valve replacement, Aortic (AVR), Bioprosthetic
- 700 Valve replacement, Aortic (AVR), Homograft
- 715 Aortic root replacement, Bioprosthetic
- 720 Aortic root replacement, Mechanical
- 730 Aortic root replacement, Homograft
- 735 Aortic root replacement, Valve sparing

740 Ross procedure

Aortic valve repair attempted, converted to valve replacement with prosthetic valve during the same operation

Aortic valve repair attempted, converted to valve replacement with a pulmonary autograft and replacement of the pulmonary valve with a homograft conduit during the same operation

Aortic valve repair attempted, converted to Konno aortoventriculoplasty using a pulmonary autograft root for the aortic root replacement.

Replacement of the aortic valve with a prosthetic valve (mechanical, bioprosthetic, or homograft). Use this code only if type of valve prosthesis is unknown or does not fit into the specific valve replacement codes available. Autograft valve replacement should be coded as a Ross procedure.

Replacement of the aortic valve with a mechanical prosthetic valve.

Replacement of the aortic valve with a bioprosthetic prosthetic valve.

Replacement of the aortic valve with a homograft prosthetic valve.

Replacement of the aortic root (that portion of the aorta attached to the heart; it gives rise to the coronary arteries) with a bioprosthesis (e.g., porcine) in a conduit, often composite.

Replacement of the aortic root (that portion of the aorta attached to the heart; it gives rise to the coronary arteries) with a mechanical prosthesis in a composite conduit.

Replacement of the aortic root (that portion of the aorta attached to the heart; it gives rise to the coronary arteries) with a homograft.

Replacement of the aortic root (that portion of the aorta attached to the heart; it gives rise to the coronary arteries) without replacing the aortic valve (using a tube graft).

Replacement of the aortic valve with a pulmonary autograft and replacement of the pulmonary valve with a homograft conduit.

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750	Konno procedure	Relief of left ventricular outflow tract obstruction associated with aortic annular hypoplasia, aortic valvar stenosis and/or aortic valvar insufficiency via Konno aortoventriculoplasty. Components of the surgery include a longitudinal incision in the aortic septum, a vertical incision in the outflow tract of the right ventricle to join the septal incision, aortic valve replacement, and patch reconstruction of the outflow tracts of both ventricles.
760	Ross-Konno procedure	Relief of left ventricular outflow tract obstruction associated with aortic annular hypoplasia, aortic valvar stenosis and/or aortic valvar insufficiency via Konno aortoventriculoplasty using a pulmonary autograft root for the aortic root replacement.
770	Other annular enlargement procedure	Techniques included under this procedure code include those designed to effect aortic annular enlargement that are not included in other procedure codes. These include the Manouguian and Nicks aortic annular enlargement procedures.
780	Aortic stenosis, Subvalvar, Repair	Subvalvar aortic stenosis repair by a range of techniques including excision, excision and myotomy, excision and myomectomy, myotomy, myomectomy, initial placement of apical-aortic conduit (LV to aorta conduit replacement would be coded as conduit reoperation), Vouhé aortoventriculoplasty (aortic annular incision at commissure of left and right coronary cusps is carried down to the septum and RV infundibulum; septal muscle is resected, incisions are closed, and the aortic annulus is reconstituted), or other aortoventriculoplasty techniques.
2100	Aortic stenosis, Subvalvar, Repair, With myectomy for IHSS	Subvalvar aortic stenosis repair including excision and myectomy
790	Aortic stenosis, Supravalvar, Repair	Repair of supravalvar aortic stenosis involving all techniques of patch aortoplasty and aortoplasty involving the use of all autologous tissue. In simple patch aortoplasty a diamond-shaped patch may be used, in the Doty technique an extended patch is placed (Y- shaped patch, incision carried into two sinuses), and in the Brom repair the ascending aorta is transected, any fibrous ridge is resected, and the three sinuses are patched separately.
800	Valve surgery, Other, Aortic	Other aortic valve surgery not specified in other procedure codes.
810	Sinus of Valsalva, Aneurysm repair	Sinus of Valsalva aneurysm repair can be organized by site of aneurysm (left, right or noncoronary sinus), type of repair (suture, patch graft, or root repair by tube graft or valved conduit), and approach used (from chamber of origin (aorta) or from chamber of penetration (LV, RV, PA, left or right atrium, etc.). Aortic root replacement procedures in association with sinus of Valsalva

		aneurysm repairs are usually for associated uncorrectable aortic insufficiency or multiple sinus involvement and the aortic root replacement procedure should also be listed. Additional procedures also performed at the time of sinus of Valsalva aneurysm repair include but are not limited to VSD closure, repair or replacement of aortic valve, and coronary reconstruction; these procedures should also be coded separately from the sinus of Valsalva aneurysm repair.
820	LV to aorta tunnel repair	LV to aorta tunnel repair can be accomplished by suture, patch, or both, and may require reimplantation of the right coronary artery. Associated coronary artery procedures should be coded separately from the LV to aorta tunnel repair.
830	Valvuloplasty, Mitral	Repair of mitral valve including, but not limited to: valvotomy (closed or open heart), cleft repair, annuloplasty with or without ring, chordal reconstruction, commissuorotomy, leaflet repair, or papillary muscle repair.
2260	Valvuloplasty converted to valve replacement in the same operation, Mitral	Mitral valve repair attempted, converted to valve replacement with prosthetic valve during the same operation
840	Mitral stenosis, Supravalvar mitral ring repair	Supravalvar mitral ring repair.
850	Valve replacement, Mitral (MVR)	Replacement of mitral valve with prosthetic valve, any kind, in suprannular or annular position.
860	Valve surgery, Other, Mitral	Other mitral valve surgery not specified in procedure codes.
870	Norwood procedure	The Norwood operation is synonymous with the term 'Norwood (Stage 1)' and is defined as an aortopulmonary connection and neoaortic arch construction resulting in univentricular physiology and pulmonary blood flow controlled with a calibrated systemic-to-pulmonary artery shunt, or a right ventricle to pulmonary artery conduit, or rarely, a cavopulmonary connection. When coding the procedure "Norwood procedure", the primary procedure of the operation should be "Norwood procedure". The second procedure that is coded as part of the Norwood (Stage 1) operation (Procedure 2 after the Norwood procedure) must then document the source of pulmonary blood flow and be chosen from the following eight choices: 1. Shunt, Systemic to pulmonary, Modified Blalock- Taussig Shunt (MBTS) 2. Shunt, Systemic to pulmonary, Central (from aorta or to main pulmonary artery) 3. Shunt, Systemic to pulmonary, Other 4. Conduit placement, RV to PA 5. Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn)

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		 6. Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn) 7. Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn) 8. HemiFontan
880	HLHS biventricular repair	Performed in patients who have small but adequately sized ventricles to support systemic circulation. These patients usually have small, but not stenotic, aortic and/or mitral valves. Primary biventricular repair has consisted of extensive aortic arch and ascending aorta enlargement with a patch, closure of interventricular and interatrial communications, and conservative approach for left ventricular outflow tract obstruction (which may include mitral stenosis at any level, subaortic stenosis, aortic stenosis, aortic arch hypoplasia, coarctation, or interrupted aortic arch). Concurrent operations (e.g., coarctation repair, aortic valve repair or replacement, etc.) can be coded separately within the database.
2755	Conduit insertion right ventricle to pulmonary artery + Intraventricular tunnel left ventricle to neoaorta + Arch reconstruction (Rastelli and Norwood type arch reconstruction) (Yasui)	
2160	Hybrid Approach "Stage 1", Application of RPA & LPA bands	A "Hybrid Procedure" is defined as a procedure that combines surgical and transcatheter interventional approaches. The term "Hybrid approach" is used somewhat differently than the term "Hybrid Procedure". A "Hybrid approach" is defined as any of a group of procedures that fit into the general silo of procedures developed from the combined use of surgical and transcatheter interventional techniques. Therefore, not all procedures classified as "Hybrid approach" are truly "Hybrid Procedures".
2170	Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA)	A "Hybrid Procedure" is defined as a procedure that combines surgical and transcatheter interventional approaches. The term "Hybrid approach" is used somewhat differently than the term "Hybrid Procedure". A "Hybrid approach" is defined as any of a group of procedures that fit into the general silo of procedures developed from the combined use of surgical and transcatheter interventional techniques. Therefore, not all procedures classified as "Hybrid approach" are truly "Hybrid Procedures".
2180	Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA) + application of RPA & LPA bands	A "Hybrid Procedure" is defined as a procedure that combines surgical and transcatheter interventional approaches. The term "Hybrid approach" is used somewhat differently than the term "Hybrid Procedure". A "Hybrid approach" is defined as any of a group of procedures that fit into the general silo of

2140 Hybrid approach "Stage 2", Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PADebanding + Aortic arch repair (Norwood [Stage 1] + Superior Cavopulmonary anastomosis(es) + PA Debanding)

2150 Hybrid approach "Stage 2", Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Without aortic arch repair

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procedures developed from the combined use of surgical and transcatheter interventional techniques. Therefore, not all procedures classified as "Hybrid approach" are truly "Hybrid Procedures".

A "Hybrid Procedure" is defined as a procedure that combines surgical and transcatheter interventional approaches. The term "Hybrid approach" is used somewhat differently than the term "Hybrid Procedure". A "Hybrid approach" is defined as any of a group of procedures that fit into the general silo of procedures developed from the combined use of surgical and transcatheter interventional techniques. Therefore, not all procedures classified as "Hybrid approach" are truly "Hybrid Procedures". It should be acknowledged that a Hybrid approach "Stage 2" (Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding, with or without Aortic arch repair) gets its name not because it has any actual hybrid elements, but because it is part of a planned staged approach that is typically commenced with a hybrid procedure.

A "Hybrid Procedure" is defined as a procedure that combines surgical and transcatheter interventional approaches. The term "Hybrid approach" is used somewhat differently than the term "Hybrid Procedure". A "Hybrid approach" is defined as any of a group of procedures that fit into the general silo of procedures developed from the combined use of surgical and transcatheter interventional techniques. Therefore, not all procedures classified as "Hybrid approach" are truly "Hybrid Procedures". It should be acknowledged that a Hybrid approach "Stage 2" (Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding, with or without Aortic arch repair) gets its name not because it has any actual hybrid elements, but because it is part of a planned staged approach that is typically commenced with a hybrid procedure.

- 2760 Hybrid Approach, Transcardiac balloon dilation
- 2770 Hybrid Approach, Transcardiac transcatheter device placement

Transplant, Heart and lung

(LV volume reduction

surgery) (Batista)

Transplant, Heart

Heart transplantation, any technique, allograft or xenograft.

- Heart and lung (single or double) transplantation.
- Partial left ventriculectomy Wedge resection of LV muscle, with suturing of cut edges together, to reduce LV volume.
- Pericardial drainage procedure Pericardial drainage can include a range of therapies

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		including, but not limited to: pericardiocentesis, pericardiostomy tube placement, pericardial window creation, and open pericardial drainage (pericardiotomy).
930	Pericardiectomy	Surgical removal of the pericardium.
940	Pericardial procedure, Other	Other pericardial procedures that include, but are not limited to: pericardial reconstruction for congenital absence of the pericardium, pericardial biopsy, pericardial mass or cyst excision.
950	Fontan, Atrio-pulmonary connection	The atrio-pulmonary Fontan is a type of Fontan with connection of the atrium to the pulmonary artery. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart.
960	Fontan, Atrio-ventricular connection	The atrio-ventricular Fontan is a type of Fontan with atrio-ventricular connection, either direct or with RA- RV conduit, valved or nonvalved. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart.
970	Fontan, TCPC, Lateral tunnel, Fenestrated	The lateral tunnel Fontan is a TCPC type of Fontan Procedure created with anastomosis of SVC and right atrium to the branch pulmonary artery and an intra-atrial baffle to direct IVC flow to pulmonary artery. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart. A "TCPC" is a Fontan where both the superior caval vein and the inferior caval vein are connected to the pulmonary circulation through separate connections that are either direct connections or tubular pathways. A fenestration of a Fontan is defined as a communication that is created to allow flow of blood between the systemic and pulmonary venous chambers.
980	Fontan, TCPC, Lateral tunnel, Nonfenestrated	The lateral tunnel Fontan is a TCPC type of Fontan Procedure created with anastomosis of SVC and right atrium to the branch pulmonary artery and an intra-atrial baffle to direct IVC flow to pulmonary artery. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart. A "TCPC" is a Fontan where both the superior caval vein and the inferior caval vein are connected to the pulmonary circulation through separate connections that are either direct connections or tubular pathways. A fenestration of a Fontan is defined as a communication that is created to allow flow of blood between the systemic and pulmonary venous chambers.

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1000	Fontan, TCPC, External conduit, Fenestrated	The external conduit Fontan is a TCPC type of Fontan operation created with anastomosis of SVC to the branch pulmonary artery a conduit outside of the heart to connect the infradiaphragmatic systemic venous return to the pulmonary artery. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart. A "TCPC" is a Fontan where both the superior caval vein and the inferior caval vein are connected to the pulmonary circulation through separate connections that are either direct connections or tubular pathways. A fenestration of a Fontan is defined as a communication that is created to allow flow of blood between the systemic and pulmonary venous chambers.
1010	Fontan, TCPC, External conduit, Nonfenestrated	The external conduit Fontan is a TCPC type of Fontan operation created with anastomosis of SVC to the branch pulmonary artery a conduit outside of the heart to connect the infradiaphragmatic systemic venous return to the pulmonary artery. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart. A "TCPC" is a Fontan where both the superior caval vein and the inferior caval vein are connected to the pulmonary circulation through separate connections that are either direct connections or tubular pathways. A fenestration of a Fontan is defined as a communication that is created to allow flow of blood between the systemic and pulmonary venous chambers.
2780	Fontan, TCPC, Intra/extracardiac conduit, Fenestrated	The TCPC with Intra/extracardiac conduit is a TCPC type of Fontan operation created with a tube where the tube is attached to the inferior caval vein inside of the heart, and then the tube passes outside of the heart and is attached to the pulmonary artery outside of the heart. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart. A "TCPC" is a Fontan where both the superior caval vein and the inferior caval vein are connected to the pulmonary circulation through separate connections that are either direct connections or tubular pathways. A fenestration of a Fontan is defined as a communication that is created to allow flow of blood between the systemic and pulmonary venous chambers.
2790	Fontan, TCPC, Intra/extracardiac conduit, Nonfenestrated	The TCPC with Intra/extracardiac conduit is a TCPC type of Fontan operation created with a tube where the tube is attached to the inferior caval vein inside of the heart, and then the tube passes outside of the heart and is attached to the pulmonary artery outside of the heart. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower

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		body draining to the pulmonary circulation in a patient with a functionally univentricular heart. A "TCPC" is a Fontan where both the superior caval vein and the inferior caval vein are connected to the pulmonary circulation through separate connections that are either direct connections or tubular pathways. A fenestration of a Fontan is defined as a communication that is created to allow flow of blood between the systemic and pulmonary venous chambers.
1025	Fontan revision or conversion (Re-do Fontan)	"Fontan revision or conversion (Re-do Fontan)" is defined as an operation where a previously created Fontan circuit is either modified or taken down and changed into a different type of Fontan. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart. A "TCPC" is a Fontan where both the superior caval vein and the inferior caval vein are connected to the pulmonary circulation through separate connections that are either direct connections or tubular pathways.
1030	Fontan, Other	Other Fontan procedure not specified in procedure codes. May include takedown of a Fontan procedure. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart.
2340	Fontan + Atrioventricular valvuloplasty	"Fontan + Atrioventricular valvuloplasty" is defined as an operation to repair the systemic atrioventricular valve combined with a Fontan operation. Please also code the type of Fontan operation performed as the second procedure of this operation. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart.
1035	Ventricular septation	Creation of a prosthetic ventricular septum. Surgical procedure used to septate univentricular hearts with two atrioventricular valves. Additional procedures, such as resection of subpulmonic stenosis, should be listed separately.
1050	Congenitally corrected TGA repair, Atrial switch and ASO (double switch)	Repair of congenitally corrected TGA by concomitant atrial switch (Mustard or Senning) and arterial switch operation. VSD closure is usually performed as well; this should be coded separately.
1060	Congenitally corrected TGA repair, Atrial switch and Rastelli	Repair of congenitally corrected TGA by concomitant atrial switch (Mustard or Senning) and VSD closure to the aortic valve with placement of an RV-to-PA conduit.
1070	Congenitally corrected TGA repair, VSD closure	Repair of congenitally corrected TGA by VSD closure only.
1080	Congenitally corrected TGA	Repair of congenitally corrected TGA by VSD closure

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	repair, VSD closure and LV to PA conduit	and placement of an LV-to-PA conduit.
1090	Congenitally corrected TGA repair, Other	Any procedures for correction of CCTGA not otherwise specified in other listed procedure codes.
1110	Arterial switch operation (ASO)	Arterial switch operation is used for repair of transposition of the great arteries (TGA). The pulmonary artery and aorta are transected and translocated so that the pulmonary artery arises from the right ventricle and the aorta from the left ventricle. Coronary artery transfer is also accomplished.
1120	Arterial switch operation (ASO) and VSD repair	Arterial switch operation is used for repair of transposition of the great arteries (TGA). The pulmonary artery and aorta are transected and translocated so that the pulmonary artery arises from the right ventricle and the aorta from the left ventricle. Coronary artery transfer is also accomplished. The VSD is closed, usually with a patch.
1123	Arterial switch procedure + Aortic arch repair	Concomitant arterial switch operation and repair of the aortic arch in patients with transposition of the great arteries with intact ventricular septum and associated coarctation of the aorta or interrupted aortic arch.
1125	Arterial switch procedure and VSD repair + Aortic arch repair	Concomitant arterial switch operation with VSD closure and repair of aortic arch in patients with transposition of the great arteries with VSD and associated coarctation of the aorta or interrupted aortic arch.
1130	Senning	Atrial baffle procedure for rerouting of venous flow in TGA resulting in a "physiological repair". The caval flow is directed behind the baffle to the mitral valve, left ventricle and pulmonary artery while the pulmonary venous flow is directed in front of the baffle to the tricuspid valve, right ventricle, and aorta. The Senning procedure uses atrial wall to construct the baffle.
1140	Mustard	Atrial baffle procedure for rerouting of venous flow in TGA resulting in a "physiological repair". The caval flow is directed behind the baffle to the mitral valve, left ventricle and pulmonary artery while pulmonary venous flow is directed in front of the baffle to the tricuspid valve, right ventricle, and aorta. The Mustard procedure uses patch material to construct the baffle.
1145	Atrial baffle procedure, Mustard or Senning revision	Revision of a previous atrial baffle procedure (either Mustard or Senning), for any reason (e.g., obstruction, baffle leak).
1150	Rastelli	Most often used for patients with TGA-VSD and significant LVOTO, the Rastelli operation consists of an LV-to-aorta intraventricular baffle closure of the VSD and placement of an RV-to-PA conduit.
1160	REV	The Lecompte (REV) intraventricular repair is designed for patients with abnormalities of ventriculoarterial connection in whom a standard intraventricular tunnel repair cannot be performed. It is also suitable for

patients in whom an arterial switch procedure with tunneling of the VSD to the pulmonary artery cannot be performed because of pulmonary (left ventricular outflow tract) stenosis. A right ventriculotomy incision is made. The infundibular (conal) septum, located between the two semilunar valves, is aggressively resected if its presence interferes with the construction of a tunnel from the VSD to the aorta. The VSD is then tunneled to the aorta. The decision to perform or not to perform the Lecompte maneuver should be made at the beginning of the operation. If the Lecompte maneuver is not performed the pulmonary artery is translocated to the right ventricular outflow tract on the side of the aorta that provides the shortest route. (When the decision to perform the Lecompte maneuver has been made, the great vessels are transected and this maneuver is performed at the beginning of the operation.) The pulmonary artery orifice is then closed. The aorta, if it had been transected during the performance of the Lecompte maneuver, is then reconstructed. A vertical incision is made on the anterior aspect of the main pulmonary artery. The posterior margin of the pulmonary artery is sutured to the superior aspect of the vertical right ventriculotomy incision. A generous patch of autologous pericardium is used to close the inferior portion of the right ventriculotomy and the anterior portion of the pulmonary artery. A monocusp pericardial valve is inserted extemporaneously.

- 2190 Aortic root translocation over left ventricle (Including Nikaidoh procedure)
- TGA, Other procedures 2210 (Kawashima, LV-PA conduit, other)
- 1180 DORV, Intraventricular tunnel repair

end, Extended

- 1200 DOLV repair
- Repair of DORV using a tunnel closure of the VSD to the aortic valve. This also includes the posterior straight tunnel repair of Kawashima

Because of the morphologic variability of DOLV, there are many approaches to repair, including: intraventricular tunnel repair directing the VSD to the pulmonary valve, the REV procedure, or the Rastelli procedure. In the case of DOLV use this code for tunnel closure to the pulmonary valve. If the REV or Rastelli procedures are performed then use those respective codes.

1210 Coarctation repair, End to end Repair of coarctation of aorta by excision of the coarctation segment and end-to-end circumferential anastomosis of the aorta. Coarctation repair, End to

Repair of coarctation of the aorta by excision of the coarctation segment and end-to-end anastomosis of the oblique ends of the aorta, creating an extended

1220

		anastomosis.
1230	Coarctation repair, Subclavian flap	Repair of coarctation of the aorta by ligating, dividing, and opening the subclavian artery, incising the coarctation site, and folding down the subclavian artery onto the incision in the aorta, suturing the subclavian "flap" in place, creating a roof over the area of the previous coarctation.
1240	Coarctation repair, Patch aortoplasty	Repair of coarctation of the aorta by incising the coarctation site with placement of a patch sutured in place longitudinally along the aortotomy edge.
1250	Coarctation repair, Interposition graft	Repair of coarctation of the aorta by resection of the coarctation segment and placement of a prosthetic tubular interposition graft anastomosed circumferentially to the cut ends of the aorta.
1260	Coarctation repair, Other	Any repair of coarctation not specified in procedure codes. This may include, for example, a combination of two approaches for coarctation repair or extra-anatomic bypass graft, etc.
1275	Coarctation repair + VSD repair	Coarctation of aorta repair, any technique, and simultaneous VSD repair, any type VSD, any type repair.
1280	Aortic arch repair	Aortic arch repair, any technique.
1285	Aortic arch repair + VSD repair	Aortic arch repair, any technique, and simultaneous VSD repair, any type VSD, any type repair. This includes repair of IAA with VSD.
1290	Coronary artery fistula ligation	Coronary artery fistula repair using any technique. If additional technique information may be supplied by another procedure code, please list separately (e.g., bypass graft).
1291	Anomalous origin of coronary artery from pulmonary artery repair	Repair of anomalous origin of the coronary artery (any) from the pulmonary artery, by any technique (ligation, translocation with aortic implantation, Takeuchi operation, or bypass graft). If additional technique information may be supplied by another procedure code, please list separately (for example, bypass graft).
1300	Coronary artery bypass	Coronary artery bypass graft procedure, any technique (with or without CPB, venous or arterial graft, one or more grafts, etc.), for any coronary artery pathology (coronary arterial fistula, aneurysm, coronary bridging, atresia of left main, acquired coronary artery disease, etc.).
1305	Anomalous aortic origin of coronary artery from aorta (AAOCA) repair	
1310	Coronary artery procedure, Other	Any coronary artery procedure not specifically listed.
1320	Interrupted aortic arch repair	Repair of interrupted aortic arch (any type) by any technique (direct anastomosis, prosthetic graft, etc.).

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		Does not include repair of IAA-VSD.
1330	PDA closure, Surgical	Closure of a PDA by any surgical technique (ligation, division, clip) using any approach (i.e., thoracotomy, thoracoscopic, etc.).
1340	PDA closure, Device	Closure of a PDA by device using transcatheter techniques.
1360	Vascular ring repair	Repair of vascular ring (any type, except pulmonary artery sling) by any technique.
1365	Aortopexy	Surgical fixation of the aorta to another structure (usually the posterior aspect of the sternum) to relieve compression on another vessel or structure (e.g., trachea).
1370	Pulmonary artery sling repair	Pulmonary artery sling repair by any technique.
1380	Aortic aneurysm repair	Aortic aneurysm repair by any technique.
1390	Aortic dissection repair	Aortic dissection repair by any technique.
1400	Lung biopsy	Lung biopsy, any technique.
1410	Transplant, lung(s)	Lung or lobe transplantation of any type.
1420	Lung procedure, Other	Included in this procedure code would be any lung procedure other than transplant, such as, but not limited to: pneumonectomy (left or right), lobectomy (any lobe), bilobectomy (two lobes), segmental lung resection (any segment), or wedge resection.
1440	Tracheal procedure	Any tracheal procedure, including but not limited to relief of tracheal stenosis (any means including pericardial graft, autograft insertion, homograft insertion, resection with reanastomosis, rib cartilage insertion, or slide tracheoplasty). Tracheal stent placement or balloon dilation should be coded separately.
2800	Muscle flap, Trunk (i.e. intercostal, pectus, or serratus muscle)	A trunk muscle flap (intercostal, pectus, or serratus muscle) is rotated to buttress or augment a suture line, anastomosis or fill the pleural space.
2810	Muscle flap, Trunk (i.e. latissimus dorsi)	A trunk muscle flap (latissimus dorsi) is rotated to buttress or augment a suture line, anastomosis or fill the pleural space.
2820	Removal, Sternal wire	Excision of wire used to approximate sternum, previous sternotomy
2830	Rib excision, Complete	Complete excision of rib(s)
2840	Rib excision, Partial	Partial excision of rib(s)
2850	Sternal fracture - open treatment	Repair of a sternal fracture with sutures, wires, plates or bars.
2860	Sternal resection, Radical resection of sternum	Involves removal of the sternum with complex reconstructive requirements for either a tumor or severe sternal infection.
2870	Sternal resection, Radical resection of sternum with	Involves resection of the sternum and mediastinal lymph node dissection.

	mediastinal lymphadenectomy	
2880	Tumor of chest wall - Excision including ribs	Excision of ribs and attached muscles for a benign or malignant tumor of the chest wall. When three or less ribs are taken or if the defect is covered by the scapula, reconstruction may not be necessary.
2890	Tumor of chest wall - Excision including ribs, With reconstruction	Resection of the chest wall tumor with reconstruction of the defect, usually with plastic mesh (marlex, prolene), methylmethracralate/mesh sandwich or a muscle flap.
2900	Tumor of soft tissue of thorax - Excision of deep subfascial or intramuscular tumor	Excision of a deep chest wall tumor that involves the muscles but not the ribs. These would usually be benign tumors such as a fibroma or a deep lipoma.
2910	Tumor of soft tissue of thorax - Excision of subcutaneous tumor	Excision of tumor in the skin/fat of the chest wall-typically a lipoma.
2920	Tumor of soft tissue of thorax - Radical resection	En-bloc, radical excision of a cancer of the chest wall muscles, involving the skin, fat and muscles. Typically it would be a desmoid tumor or a sarcoma malignant fibrous histiocytoma, rhabdomyosarcoma.
2930	Hyoid myotomy and suspension	Typically done as a suprahyoid laryngeal release to reduce tension on a cervical tracheal resection anastomosis. The hyoid bone is cut laterally on both sides to allow it to drop down and thus lower the larynx and trachea.
2940	Muscle flap, Neck	A neck muscle flap is rotated to buttress or augment a suture line, anastomosis or fill a space. Commonly used neck muscles are strap muscles, sternocleidomastoid muscle, levator scapulae.
2950	Procedure on neck	Unlisted procedure of the neck
2960	Tumor of soft tissue of neck - Excision of deep subfascial or intramuscular tumor	Excision of a tumor that involves the muscles of the neck. These would usually be benign tumors such as a fibroma or a deep lipoma.
2970	Tumor of soft tissue of neck - Excision of subcutaneous tumor	Excision of a tumor in the skin/fat of the neck-typically a lipoma.
2980	Tumor of soft tissue of neck - Radical resection	A surgical procedure in which the fibrofatty contents of the neck are removed for the treatment of cervical lymphatic metastases. Neck dissection is most commonly used in the management of cancers of the upper aerodigestive tract. It is also used for malignancies of the skin of the head and neck area, the thyroid, and the salivary glands.
2990	Pectus bar removal	Removal of a previously implanted chest wall bar
3000	Pectus bar repositioning	Repositioning of a previously implanted chest wall bar
3010	Pectus repair, Minimally invasive repair (Nuss), With thoracoscopy	Placement of a Nuss transverse chest wall bar to push the sternum forward to repair a pectus deformity, with thoracoscopy
3020	Pectus repair, Minimally	Placement of a Nuss transverse chest wall bar to push

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	invasive repair (Nuss), Without thoracoscopy	the sternum forward to repair a pectus deformity, without thoracoscopy
3030	Pectus repair, Open repair	Resection of several costal cartilages, a partial osteotomy of the sternum, and often placement of a temporary bar for stabilization of pectus chest wall deformity
3040	Division of scalenus anticus, With resection of a cervical rib	Repair of Thoracic Outlet Syndrome variant where the scalenus anticus muscle or a band from it impinges on the brachial plexus along with resection of the abnormal cervical rib
3050	Division of scalenus anticus, Without resection of a cervical rib	Repair of Thoracic Outlet Syndrome variant where the scalenus anticus muscle or a band from it impinges on the brachial plexus along without resection of the abnormal cervical rib
3060	Rib excision, Excision of cervical rib	Removal of the first rib or a cervical rib for treatment of Thoracic Outlet Syndrome
3070	Rib excision, Excision of cervical rib, With sympathectomy	Removal of the first rib or a cervical rib and sympathectomy for treatment of Thoracic Outlet Syndrome
3080	Rib excision, Excision of first rib	Removal of the first rib
3090	Rib excision, Excision of first rib, With sympathectomy	Removal of the first rib and sympathectomy
3100	Procedure on thorax	Unlisted procedure on thorax
1450	Pacemaker implantation, Permanent	Implantation of a permanent pacemaker of any type (e.g., single-chamber, dual-chamber, atrial antitachycardia), with any lead configuration or type (atrial, ventricular, atrial and ventricular, transvenous, epicardial, transmural), by any technique (sternotomy, thoracotomy etc.).
1460	Pacemaker procedure	Any revision to a previously placed pacemaker system including revisions to leads, generators, pacemaker pockets. This may include explantation of pacemakers or leads as well.
2350	Explantation of pacing system	Removal of pacemaker generator and wires
1470	ICD (AICD) implantation	Implantation of an (automatic) implantable cardioverter defibrillator system.
1480	ICD (AICD) ([automatic] implantable cardioverter defibrillator) procedure	Any revision to a previously placed AICD including revisions to leads, pads, generators, pockets. This may include explantation procedures as well.
1490	Arrhythmia surgery - atrial, Surgical Ablation	Surgical ablation (any type) of any atrial arrhythmia.
1500	Arrhythmia surgery - ventricular, Surgical Ablation	Surgical ablation (any type) of any ventricular arrhythmia.
2500	Cardiovascular catheterization procedure, Diagnostic	Invasive diagnostic procedure involving the heart and great vessels

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2520	Cardiovascular catheterization procedure, Diagnostic, Angiographic data obtained	Invasive diagnostic procedure involving the heart and great vessels using angiography
2550	Cardiovascular catheterization procedure, Diagnostic, Electrophysiology alteration	
2540	Cardiovascular catheterization procedure, Diagnostic, Hemodynamic alteration	Invasive diagnostic procedure involving pressure or flow alteration in the cardiovascular system
2510	Cardiovascular catheterization procedure, Diagnostic, Hemodynamic data obtained	Invasive diagnostic procedure involving pressure and flow assessment of the heart and great vessels
2530	Cardiovascular catheterization procedure, Diagnostic, Transluminal test occlusion	
2410	Cardiovascular catheterization procedure, Therapeutic	Invasive therapeutic procedure involving the heart and great vessels
2670	Cardiovascular catheterization procedure, Therapeutic, Adjunctive therapy	
1540	Cardiovascular catheterization procedure, Therapeutic, Balloon dilation	Invasive therapeutic procedure involving balloon dilation of a cardiovascular structure
2590	Cardiovascular catheterization procedure, Therapeutic, Balloon valvotomy	Invasive therapeutic procedure involving balloon dilation of a valve
1580	Cardiovascular catheterization procedure, Therapeutic, Coil implantation	Invasive therapeutic procedure involving implantation of a coil
1560	Cardiovascular catheterization procedure, Therapeutic, Device implantation	Invasive therapeutic procedure involving implantation of a device
3110	Cardiovascular catheterization procedure, Therapeutic, Device implantation attempted	Invasive therapeutic procedure involving attempted but unsuccessful implantation of a device
2690	Cardiovascular catheterization procedure, Therapeutic, Electrophysiological ablation.	Invasive therapeutic procedure involving Catheter based creation of lesions in the heart with radiofrequency energy, cryotherapy, or ultrasound energy to cure or control arrhythmias

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3120	Cardiovascular catheterization procedure, Therapeutic, Intravascular foreign body removal	Invasive therapeutic procedure involving removal of an intravascular foreign body
2640	Cardiovascular catheterization procedure, Therapeutic, Perforation (establishing interchamber and/or intervessel communication)	Invasive therapeutic procedure establishing interchamber and/or intervessel communication
2580	Cardiovascular catheterization procedure, Therapeutic, Septostomy	Invasive therapeutic procedure establishing an intracardiac septal communication
1550	Cardiovascular catheterization procedure, Therapeutic, Stent insertion	Invasive therapeutic procedure involving implantation of a stent
2630	Cardiovascular catheterization procedure, Therapeutic, Stent re-dilation	Invasive therapeutic procedure involving dilation of a previously implanted stent
2650	Cardiovascular catheterization procedure, Therapeutic, Transcatheter Fontan completion	
2660	Cardiovascular catheterization procedure, Therapeutic, Transcatheter implantation of valve	Invasive therapeutic procedure involving deployment/ implantation of a valve
1590	Shunt, Systemic to pulmonary, Modified Blalock- Taussig Shunt (MBTS)	Placement of a tube graft from a branch of the aortic arch to the pulmonary artery with or without bypass, from any approach (thoracotomy, sternotomy).
1600	Shunt, Systemic to pulmonary, Central (shunt from aorta)	A direct anastomosis or placement of a tube graft from the aorta to the pulmonary artery with or without bypass, from any approach (thoracotomy, sternotomy).
3130	Shunt, Systemic to pulmonary, Central (shunt from aorta), Central shunt with an end-to-side connection between the transected main pulmonary artery and the side of the ascending aorta (i.e. Mee shunt)	Creation of a central shunt with an end-to-side connection between the transected main pulmonary artery and the side of the ascending aorta
1610	Shunt, Systemic to pulmonary, Other	Placement of any other systemic-to-pulmonary artery shunt, with or without bypass, from any approach (thoracotomy, sternotomy) that is not otherwise coded. Includes classic Blalock-Taussig systemic-to-pulmonary artery shunt.
1630	Shunt, Ligation and takedown	Takedown of any shunt.
2095	Shunt, Reoperation	Revision or replacement of a previously created shunt

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PA banding (PAB)	Placement of a pulmonary artery band, any type.
PA debanding	Debanding of pulmonary artery. Please list separately any pulmonary artery reconstruction required.
Damus-Kaye-Stansel procedure (DKS) (creation of AP anastomosis without arch reconstruction)	In the Damus-Kaye-Stansel procedure the proximal transected main pulmonary artery is connected by varying techniques to the aorta.
Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn)	Superior vena cava to pulmonary artery anastomosis allowing flow to both pulmonary arteries with an end-to- side superior vena-to-pulmonary artery anastomosis.
Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn)	Superior vena cava to ipsilateral pulmonary artery anastomosis (i.e., LSVC to LPA, RSVC to RPA).
Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn)	Bilateral superior vena cava-to-pulmonary artery anastomoses (requires bilateral SVCs).
HemiFontan	A HemiFontan is an operation that includes a bidirectional superior vena cava (SVC)-to-pulmonary artery anastomosis and the connection of this "SVC- pulmonary artery amalgamation" to the atrium, with a "dam" between this "SVC-pulmonary artery amalgamation" and the atrium. This operation can be accomplished with a variety of operative strategies including the following two techniques and other techniques that combine elements of both of these approaches: (1) Augmenting both branch pulmonary arteries with a patch and suturing the augmented branch pulmonary arteries to an incision in the medial aspect of the superior vena cava. (With this approach, the pulmonary artery patch forms a roof over the SVC-to- pulmonary artery anastomosis and also forms a "dam" between the SVC-pulmonary artery amalgamation and the right atrium.) (2) Anastomosing both ends of the divided SVC to incisions in the top and bottom of the right pulmonary artery, and using a separate patch to close junction of the SVC and the right atrium.
Superior cavopulmonary anastomosis(es) (Glenn or HemiFontan) +	
	PA banding (PAB) PA debanding Damus-Kaye-Stansel procedure (DKS) (creation of AP anastomosis without arch reconstruction) Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn) Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn) Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn) HemiFontan Superior cavopulmonary anastomosis(es) (Glenn or HemiFontan) +

- Atrioventricular valvuloplasty
- 2130 Superior Cavopulmonary anastomosis(es) + PA reconstruction
- 3140 Hepatic vein to azygous vein connection, Direct
- 3150 Hepatic vein to azygous vein connection, Interposition graft
- 3160 Kawashima operation

	(superior cavopulmonary connection in setting of interrupted IVC with azygous continuation)	
1710	Palliation, Other	Any other palliative procedure not specifically listed.
2360	ECMO cannulation	Insertion of cannulas for extracorporeal membrane oxygenation
2370	ECMO decannulation	Removal of cannulas for extracorporeal membrane oxygenation
1910	ECMO procedure	Any ECMO procedure (cannulation, decannulation, etc.).
1900	Intraaortic balloon pump (IABP) insertion	Insertion of intraaortic balloon pump by any technique.
1920	Right/left heart assist device procedure	Any right, left, or biventricular assist device procedure (placement, removal etc.).
2390	VAD explantation	Removal of ventricular assist device
2380	VAD implantation	Insertion of a ventricular assist device
3170	VAD change out	Removal of previously inserted ventricular assist device and insertion of a new device
2420	Echocardiography procedure, Sedated transesophageal echocardiogram	Procedural sedation for echocardiogram
2430	Echocardiography procedure, Sedated transthoracic echocardiogram	Procedural sedation for echocardiogram, transthoracic
2435	Non-cardiovascular, Non- thoracic procedure on cardiac patient with cardiac anesthesia	Anesthesia provided by cardiac anesthesiologist for patient with congenital heart disease undergoing a non- cardiovascular, non-thoracic procedure
2440	Radiology procedure on cardiac patient, Cardiac Computerized Axial Tomography (CT Scan)	A patient with congenital heart disease undergoing cardiac CT scan
2450	Radiology procedure on cardiac patient, Cardiac Magnetic Resonance Imaging (MRI)	A patient with congenital heart disease undergoing cardiac MRI
2460	Radiology procedure on cardiac patient, Diagnostic radiology	A patient with congenital heart disease undergoing a diagnostic radiology procedure
2470	Radiology procedure on cardiac patient, Non-Cardiac Computerized Tomography (CT) on cardiac patient	A patient with congenital heart disease undergoing a non-cardiac CT scan
2480	Radiology procedure on cardiac patient, Non-cardiac Magnetic Resonance Imaging (MRI) on cardiac patient	A patient with congenital heart disease undergoing non- cardiac MRI

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2490	Radiology procedure on cardiac patient, Therapeutic radiology	A patient with congenital heart disease undergoing a therapeutic radiology procedure
1720	Aneurysm, Ventricular, Right, Repair	Repair of right ventricular aneurysm, any technique.
1730	Aneurysm, Ventricular, Left, Repair	Repair of left ventricular aneurysm, any technique.
1740	Aneurysm, Pulmonary artery, Repair	Repair of pulmonary artery aneurysm, any technique.
1760	Cardiac tumor resection	Resection of cardiac tumor, any type.
1780	Pulmonary AV fistula repair/occlusion	Repair or occlusion of a pulmonary arteriovenous fistula.
1790	Ligation, Pulmonary artery	Ligation or division of the pulmonary artery. Most often performed as a secondary procedure.
1802	Pulmonary embolectomy, Acute pulmonary embolus	Acute pulmonary embolism (clot) removal, through catheter or surgery.
1804	Pulmonary embolectomy, Chronic pulmonary embolus	Chronic pulmonary embolism (clot) removal, through catheter or surgery.
1810	Pleural drainage procedure	Pleural drainage procedure via thoracocentesis, tube thoracostomy, or open surgical drainage.
1820	Pleural procedure, Other	Other pleural procedures not specifically listed; may include pleurodesis (mechanical, talc, antibiotic or other), among others.
1830	Ligation, Thoracic duct	Ligation of the thoracic duct; most commonly for persistent chylothorax.
1840	Decortication	Decortication of the lung by any technique.
1850	Esophageal procedure	Any procedure performed on the esophagus.
1860	Mediastinal procedure	Any non-cardiovascular mediastinal procedure not otherwise listed.
1870	Bronchoscopy	Bronchoscopy, rigid or flexible, for diagnostic, biopsy, or treatment purposes (laser, stent, dilation, lavage).
1880	Diaphragm plication	Plication of the diaphragm; most often for diaphragm paralysis due to phrenic nerve injury.
1890	Diaphragm procedure, Other	Any diaphragm procedure not specifically listed.
1930	VATS (video-assisted thoracoscopic surgery)	Video-assisted thoracoscopic surgery utilized; this code should be used in addition to the specific procedure code (e.g., if PDA ligated using VATS technique, PDA ligation should be primary procedure, VATS should be secondary procedure).
1940	Minimally invasive procedure	Any procedure using minimally invasive technique; this code should be used in addition to the specific procedure code (e.g., if ASD closed using minimally invasive technique, ASD repair should be primary procedure, minimally invasive procedure should be listed additionally).

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1950	Bypass for noncardiac lesion	Use of cardiopulmonary bypass for noncardiac lesion; this code may be used in addition to the specific procedure code if one is available (e.g., tracheal procedures may be done using CPB - the tracheal procedure should be the primary procedure and use of cardiopulmonary bypass for noncardiac lesion should be listed additionally).
1960	Delayed sternal closure	Sternal closure effected after patient has left operating room with sternum open, either because of swelling or electively after complex heart procedures. This procedure should be operative type No CPB Cardiovascular.
1970	Mediastinal exploration	Mediastinal exploration, most often for postoperative control of bleeding or tamponade, but may be exploration to assess mediastinal mass, etc.
1980	Sternotomy wound drainage	Drainage of the sternotomy wound.
3180	Intravascular stent removal	Removal of a previously placed intravascular stent
1990	Thoracotomy, Other	Any procedure performed through a thoracotomy incision not otherwise listed.
2000	Cardiotomy, Other	Any procedure involving an incision in the heart that is not otherwise listed.
2010	Cardiac procedure, Other	Any cardiac procedure, bypass or non-bypass, that is not otherwise listed.
2020	Thoracic and/or mediastinal procedure, Other	Any thoracic and/or mediastinal procedure not otherwise listed.
2030	Peripheral vascular procedure, Other	Any peripheral vascular procedure; may include procedures such as femoral artery repair, iliac artery repair, etc.
2040	Miscellaneous procedure, Other	Any miscellaneous procedure not otherwise listed.
2050	Organ procurement	Procurement of an organ for transplant (most likely, heart, lungs, or heart and lungs).
7777	Other procedure	Any procedure on any organ system not otherwise listed.
7800	Operation canceled before skin incision	Surgical procedure canceled after patient enters the operating room but prior to skin incision
7810	Operation aborted after skin incision	Surgical procedure canceled after skin incision made

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Long Name: Other Card-Co	ongenital Procedure 2		SeqNo:	4520
Short Name: OCarCongPro	oc2		Core:	Yes
Section Name: Other Cardiac	Procedures	He	arvest:	Yes
DBTableName AdultData				
Definition: Indicate the seco	nd of the three most sigr	nificant congenital procedures.		
LowValue: Usual	RangeLow:			
HighValue: Usuall	RangeHigh:			
Parent Long Name: Other Ca	ard-Congenital	Format: Text (categorical values sp	ecified by S	STS)
ParentShortName: OCarCon	g	DataLength:		
<i>ParentValue:</i> = "Yes"		Data Source: User		
ParentHarvestCodes: 1				
Harvest Codes and Value	ue Definitions:			
Code: Value:	-	Definition:		
10 PFO, I	Primary closure	Suture closure of patent foramen ovale	(PFO).	
20 ASD r	epair, Primary closure	Suture closure of secundum (most frequencies sinus, sinus venosus or common atrium	• • • •	onary
30 ASD r	epair, Patch	Patch closure (using any type of patch r secundum, coronary sinus, or sinus ven		
40 ASD r	epair, Device	Closure of any type ASD (including PF device.	O) using a	
2110 ASD r repair	epair, Patch + PAPVC	Patch closure (using any type of patch i secundum, coronary sinus, or sinus ven PAPVC repair, any type		olus
	Common atrium (single), Septation	Septation of common (single) atrium us patch material.	sing any typ	e
60 ASD c	creation/enlargement	Creation of an atrial septal defect or enl existing atrial septal defect using a vari- including balloon septostomy, blade sej surgical septectomy. Creation may be a with or without use of cardiopulmonary	ety of moda ptostomy, or accomplishe	lities r
70 ASD p	partial closure	Intentional partial closure of any type A suture or fenestrated patch closure).	ASD (partial	
80 Atrial	septal fenestration	Creation of a fenestration (window) in between the atrial chambers. Usually p hole punch, creating a specifically sized in patch material placed on the atrial se	erformed us d communic	-
85 Atrial	fenestration closure	Closure of previously created atrial fem any method including device, primary s		
100 VSD r	epair, Primary closure	Suture closure of any type VSD.		
110 VSD r	epair, Patch	Patch closure (using any type of patch type VSD.	material) of	any
120 VSD r	repair, Device	Closure of any type VSD using a device	e.	

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130	VSD, Multiple, Repair	Closure of more than one VSD using any method or combination of methods. Further information regarding each type of VSD closed and method of closure can be provided by additionally listing specifics for each VSD closed. In the case of multiple VSDs in which only one is closed the procedure should be coded as closure of a single VSD. The fundamental diagnosis, in this case, would be "VSD, Multiple" and a secondary diagnosis can be the morphological type of VSD that was closed at the time of surgery.
140	VSD creation/enlargement	Creation of a ventricular septal defect or enlargement of an existing ventricular septal defect.
150	Ventricular septal fenestration	Creation of a fenestration (window) in the septum between the ventricular chambers. Usually performed using a hole punch, creating a specifically sized communication in patch material placed on the ventricular septum.
170	AVC (AVSD) repair, Complete (CAVSD)	Repair of complete AV canal (AVSD) using one- or two-patch or other technique, with or without mitral valve cleft repair.
180	AVC (AVSD) repair, Intermediate (Transitional)	Repair of intermediate AV canal (AVSD) using ASD and VSD patch, or ASD patch and VSD suture, or other technique, with or without mitral valve cleft repair.
190	AVC (AVSD) repair, Partial (Incomplete) (PAVSD)	Repair of partial AV canal defect (primum ASD), any technique, with or without repair of cleft mitral valve.
2300	Valvuloplasty, Common atrioventricular valve	Common AV valve repair, any type
2250	Valvuloplasty converted to valve replacement in the same operation, Common atrioventricular valve	Common AV valve repair attempted, converted to valve replacement with prosthetic valve during the same operation
2230	Valve replacement, Common atrioventricular valve	Replacement of the common AV valve with a prosthetic valve
210	AP window repair	Repair of AP window using one- or two-patch technique with cardiopulmonary bypass; or, without cardiopulmonary bypass, using transcatheter device or surgical closure.
220	Pulmonary artery origin from ascending aorta (hemitruncus) repair	Repair of pulmonary artery origin from the ascending aorta by direct reimplantation, autogenous flap, or conduit, with or without use of cardiopulmonary bypass.
230	Truncus arteriosus repair	Truncus arteriosus repair that most frequently includes patch VSD closure and placement of a conduit from RV to PA. In some cases, a conduit is not placed but an RV to PA connection is made by direct association. Very rarely, there is no VSD to be closed. Truncal valve repair or replacement should be coded separately (Valvuloplasty, Truncal valve; Valve replacement, Truncal valve), as would be the case as well with associated arch anomalies requiring repair (e.g.,

		Interrupted aortic arch repair).
240	Valvuloplasty, Truncal valve	Truncal valve repair, any type.
2290	Valvuloplasty converted to valve replacement in the same operation, Truncal valve	Truncal valve repair attempted, converted to valve replacement with prosthetic valve during the same operation
250	Valve replacement, Truncal valve	Replacement of the truncal valve with a prosthetic valve.
2220	Truncus + Interrupted aortic arch repair (IAA) repair	Truncus arteriosus repair usually includes patch VSD closure and placement of a conduit from RV to PA. In some cases, a conduit is not placed but an RV to PA connection is made by direct association. (Very rarely, there is no VSD) plus repair of interrupted aortic arch
260	PAPVC repair	PAPVC repair revolves around whether an intracardiac baffle is created to redirect pulmonary venous return to the left atrium or if the anomalous pulmonary vein is translocated and connected to the left atrium directly. If there is an associated ASD and it is closed, that procedure should also be listed.
270	PAPVC, Scimitar, Repair	In scimitar syndrome, PAPVC repair also revolves around whether an intracardiac baffle is created to redirect pulmonary venous return to the left atrium or if the anomalous pulmonary vein is translocated and connected to the left atrium directly. If there is an associated ASD and it is closed, that procedure should also be listed. Occasionally an ASD is created; this procedure also must be listed separately. Concomitant thoracic procedures (e.g., lobectomy, pneumonectomy) should also be included in the procedures listing.
2120	PAPVC repair, Baffle redirection to left atrium with systemic vein translocation (Warden) (SVC sewn to right atrial appendage)	An intracardiac baffle is created to redirect pulmonary venous return to the left atrium and SVC sewn to right atrial appendage)
280	TAPVC repair	Repair of TAPVC, any type. Issues surrounding TAPVC repair involve how the main pulmonary venous confluence anastomosis is fashioned, whether an associated ASD is closed or left open or enlarged (ASD closure and enlargement may be listed separately), and whether, particularly in mixed type TAPVC repair, an additional anomalous pulmonary vein is repaired surgically.
2200	TAPVC repair + Shunt - systemic-to-pulmonary	Repair of TAPVC, any type plus a systemic to pulmonary shunt creation
290	Cor triatriatum repair	Repair of cor triatriatum. Surgical decision making revolves around the approach to the membrane creating the cor triatriatum defect, how any associated ASD is closed, and how any associated anomalous pulmonary vein connection is addressed. Both ASD closure and anomalous pulmonary venous connection may be listed as separate procedures.

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300	Pulmonary venous stenosis repair	Repair of pulmonary venous stenosis, whether congenital or acquired. Repair can be accomplished with a variety of approaches: sutureless, patch venoplasty, stent placement, etc.
310	Atrial baffle procedure (non- Mustard, non-Senning)	The atrial baffle procedure code is used primarily for repair of systemic venous anomalies, as in redirection of left superior vena cava drainage to the right atrium.
330	Anomalous systemic venous connection repair	With the exception of atrial baffle procedures (harvest code 310), anomalous systemic venous connection repair includes a range of surgical approaches, including, among others: ligation of anomalous vessels, reimplantation of anomalous vessels (with or without use of a conduit), or redirection of anomalous systemic venous flow through directly to the pulmonary circulation (bidirectional Glenn to redirect LSVC or RSVC to left or right pulmonary artery, respectively).
340	Systemic venous stenosis repair	Stenosis or obstruction of a systemic vein (most commonly SVC or IVC) may be relieved with patch or conduit placement, excision of the stenotic area with primary reanastomosis or direct reimplantation.
350	TOF repair, No ventriculotomy	Tetralogy of Fallot repair (assumes VSD closure and relief of pulmonary stenosis at one or more levels), without use of an incision in the infundibulum of the right ventricle for exposure. In most cases this would be a transatrial and transpulmonary artery approach to repair the VSD and relieve the pulmonary stenosis. If the main pulmonary artery incision is extended proximally through the pulmonary annulus, this must be considered "transannular" and thus a ventricular incision, though the length of the incision onto the ventricle itself may be minimal.
360	TOF repair, Ventriculotomy, Nontransanular patch	Tetralogy of Fallot repair (assumes VSD closure and relief of pulmonary stenosis at one or more levels), with use of a ventriculotomy incision, but without placement of a trans-pulmonary annulus patch. If the main pulmonary artery incision is extended proximally through the pulmonary annulus, this must be considered "transannular" and thus a ventricular incision, though the length of the incision onto the ventricle itself may be minimal.
370	TOF repair, Ventriculotomy, Transanular patch	Tetralogy of Fallot repair (assumes VSD closure and relief of pulmonary stenosis at one or more levels), with use of a ventriculotomy incision and placement of a trans-pulmonary annulus patch. If the main pulmonary artery incision is extended proximally through the pulmonary annulus, this must be considered "transannular" and thus a ventricular incision, though the length of the incision onto the ventricle itself may be minimal.
380	TOF repair, RV-PA conduit	Tetralogy of Fallot repair (assumes VSD closure and relief of pulmonary stenosis at one or more levels), with

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		placement of a right ventricle-to-pulmonary artery conduit. In this procedure the major components of pulmonary stenosis are relieved with placement of the RV-PA conduit.
390	TOF - AVC (AVSD) repair	Tetralogy of Fallot repair (assumes VSD closure and relief of pulmonary stenosis at one or more levels), with repair of associated AV canal defect. Repair of associated atrial septal defect or atrioventricular valve repair(s) should be listed as additional or secondary procedures under the primary TOF-AVC procedure.
400	TOF - Absent pulmonary valve repair	Repair of tetralogy of Fallot with absent pulmonary valve complex. In most cases this repair will involve pulmonary valve replacement (pulmonary or aortic homograft, porcine, other) and reduction pulmonary artery arterioplasty.
420	Pulmonary atresia - VSD (including TOF, PA) repair	For patients with pulmonary atresia with ventricular septal defect without MAPCAs, including those with tetralogy of Fallot with pulmonary atresia, repair may entail either a tetralogy-like repair with transannular patch placement, a VSD closure with placement of an RV-PA conduit, or an intraventricular tunnel VSD closure with transannular patch or RV-PA conduit placement. To assure an accurate count of repairs of pulmonary atresia-VSD without MAPCAs, even if a tetralogy-type repair or Rastelli-type repair is used, the pulmonary atresia-VSD code should be the code used, not Rastelli procedure or tetralogy of Fallot repair with transannular patch.
2700	Pulmonary atresia - VSD - MAPCA repair, Complete single stage repair (1-stage that includes bilateral pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])	1-stage repair that includes bilateral pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])
2710	Pulmonary atresia - VSD - MAPCA repair, Status post prior complete unifocalization (includes VSD closure + RV to PA connection [with or without conduit])	VSD closure + RV to PA connection [with or without conduit])
2720	Pulmonary atresia - VSD - MAPCA repair, Status post prior incomplete unifocalizarion (includes completion of pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])	Completion of pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])Pulmonary atresia - VSD - MAPCA repair, Status post prior incomplete unifocalization

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2730	Unifocalization MAPCA(s), Bilateral pulmonary unifocalization - Complete unifocalization (all usable MAPCA[s] are incorporated)	Complete unifocalization , all usable MAPCA[s] are incorporated
2740	Unifocalization MAPCA(s), Bilateral pulmonary unifocalization - Incomplete unifocalization (not all usable MAPCA[s] are incorporated)	Incomplete unifocalization, not all usable MAPCA[s] are incorporated
2750	Unifocalization MAPCA(s), Unilateral pulmonary unifocalization	MAPCA(s), Unilateral pulmonary unifocalization (one side)
440	Unifocalization MAPCA(s)	Anastomosis of aortopulmonary collateral arteries into the left, right, or main pulmonary artery or into a tube graft or other type of confluence. The unifocalization procedure may be done on or off bypass.
450	Occlusion of MAPCA(s)	Occlusion, or closing off, of MAPCAs. This may be done with a transcatheter occluding device, usually a coil, or by surgical techniques.
460	Valvuloplasty, Tricuspid	Reconstruction of the tricuspid valve may include but not be limited to a wide range of techniques including: leaflet patch extension, artificial chordae placement, and papillary muscle translocation with or without detachment. Annuloplasty techniques that may be done solely or in combination with leaflet, chordae or muscle repair to achieve a competent valve include: eccentric annuloplasty, Kay annular plication, purse-string annuloplasty (including semicircular annuloplasty), sliding annuloplasty, and annuloplasty with ring placement. Do not use this code if tricuspid valve malfunction is secondary to Ebstein's anomaly; instead use the Ebstein's repair procedure code.
2280	Valvuloplasty converted to valve replacement in the same operation, Tricuspid	Tricuspid valve repair attempted, converted to valve replacement with prosthetic valve during the same operation
465	Ebstein's repair	To assure an accurate count of repairs of Ebstein's anomaly of the tricuspid valve, this procedure code was included. Repair of Ebstein's anomaly may include, among other techniques, repositioning of the tricuspid valve, plication of the atrialized right ventricle, or right reduction atrioplasty. Often associated ASD's may be closed and arrhythmias addressed with surgical ablation procedures. These procedures should be entered as separate procedure codes.
470	Valve replacement, Tricuspid (TVR)	Replacement of the tricuspid valve with a prosthetic valve.
480	Valve closure, Tricuspid (exclusion, univentricular approach)	In a functional single ventricle heart, the tricuspid valve may be closed using a patch, thereby excluding the RV. Tricuspid valve closure may be used for infants with

		Ebstein's anomaly and severe tricuspid regurgitation or in patients with pulmonary atresia-intact ventricular septum with sinusoids.
490	Valve excision, Tricuspid (without replacement)	Excision of the tricuspid valve without placement of a prosthetic valve.
500	Valve surgery, Other, Tricuspid	Other tricuspid valve surgery not specified in procedure codes.
510	RVOT procedure	Included in this procedural code would be all RVOT procedures not elsewhere specified in the nomenclature system. These might be, among others: resection of subvalvar pulmonary stenosis (not DCRV type; may be localized fibrous diaphragm or high infundibular stenosis), right ventricular patch augmentation, or reduction pulmonary artery arterioplasty.
520	1 1/2 ventricular repair	Partial biventricular repair; includes intracardiac repair with bidirectional cavopulmonary anastomosis to volume unload a small ventricle or poorly functioning ventricle.
530	PA, reconstruction (plasty), Main (trunk)	Reconstruction of the main pulmonary artery trunk commonly using patch material. If balloon angioplasty is performed or a stent is placed in the main pulmonary artery intraoperatively, this code may be used in addition to the balloon dilation or stent placement code. If MPA reconstruction is performed with PA debanding, both codes should be listed.
540	PA, reconstruction (plasty), Branch, Central (within the hilar bifurcation)	Reconstruction of the right or left branch (or both right and left) pulmonary arteries (within the hilar bifurcation) commonly using patch material. If balloon angioplasty is performed or a stent is placed in the right or left (or both) pulmonary artery intraoperatively, this code may be used in addition to the balloon dilation or stent placement code. If, rarely, branch PA banding (single or bilateral) was performed in the past and reconstruction is performed associated with debanding, both codes should be listed.
550	PA, reconstruction (plasty), Branch, Peripheral (at or beyond the hilar bifurcation)	Reconstruction of the peripheral right or left branch (or both right and left) pulmonary arteries (at or beyond the hilar bifurcation) commonly using patch material. If balloon angioplasty is performed or a stent is placed in the right or left (or both) peripheral pulmonary artery intraoperatively, this code may be used in addition to the balloon dilation or stent placement code.
570	DCRV repair	Surgical repair of DCRV combines relief of the low infundibular stenosis (via muscle resection) and closure of a VSD when present. A ventriculotomy may be required and is repaired by patch enlargement of the infundibulum. VSD closure and patch enlargement of the infundibulum, if done, should be listed as separate procedure codes.
590	Valvuloplasty, Pulmonic	Valvuloplasty of the pulmonic valve may include a

		range of techniques including but not limited to: valvotomy with or without bypass, commissurotomy, and valvuloplasty.
2270	Valvuloplasty converted to valve replacement in the same operation, Pulmonic	Pulmonic valve repair attempted, converted to valve replacement with prosthetic valve during the same operation
600	Valve replacement, Pulmonic (PVR)	Replacement of the pulmonic valve with a prosthetic valve. Care must be taken to differentiate between homograft pulmonic valve replacement and placement of a homograft RV-PA conduit.
630	Valve excision, Pulmonary (without replacement)	Excision of the pulmonary valve without placement of a prosthetic valve.
640	Valve closure, Semilunar	Closure of a semilunar valve (pulmonic or aortic) by any technique.
650	Valve surgery, Other, Pulmonic	Other pulmonic valve surgery not specified in procedure codes.
610	Conduit placement, RV to PA	Placement of a conduit, any type, from RV to PA.
620	Conduit placement, LV to PA	Placement of a conduit, any type, from LV to PA.
1774	Conduit placement, Ventricle to aorta	Placement of a conduit from the right or left ventricle to the aorta.
1772	Conduit placement, Other	Placement of a conduit from any chamber or vessel to any vessel, valved or valveless, not listed elsewhere.
580	Conduit reoperation	Conduit reoperation is the code to be used in the event of conduit failure, in whatever position (LV to aorta, LV to PA, RA to RV, RV to aorta, RV to PA, etc.), and from whatever cause (somatic growth, stenosis, insufficiency, infection, etc.).
660	Valvuloplasty, Aortic	Valvuloplasty of the aortic valve for stenosis and/or insufficiency including, but not limited to the following techniques: valvotomy (open or closed), commissurotomy, aortic valve suspension, leaflet (left, right or noncoronary) partial resection, reduction, or leaflet shaving, extended valvuloplasty (freeing of leaflets, commissurotomy, and extension of leaflets using autologous or bovine pericardium), or annuloplasty (partial - interrupted or noncircumferential sutures, or complete - circumferential sutures).
2240	Valvuloplasty converted to valve replacement in the same operation, Aortic	Aortic valve repair attempted, converted to valve replacement with prosthetic valve during the same operation
2310	Valvuloplasty converted to valve replacement in the same operation, Aortic – with Ross procedure	Aortic valve repair attempted, converted to valve replacement with a pulmonary autograft and replacement of the pulmonary valve with a homograft conduit during the same operation
2320	Valvuloplasty converted to valve replacement in the same operation, Aortic – with Ross- Konno procedure	Aortic valve repair attempted, converted to Konno aortoventriculoplasty using a pulmonary autograft root for the aortic root replacement.

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670	Valve replacement, Aortic (AVR)	Replacement of the aortic valve with a prosthetic valve (mechanical, bioprosthetic, or homograft). Use this code only if type of valve prosthesis is unknown or does not fit into the specific valve replacement codes available. Autograft valve replacement should be coded as a Ross procedure.
680	Valve replacement, Aortic (AVR), Mechanical	Replacement of the aortic valve with a mechanical prosthetic valve.
690	Valve replacement, Aortic (AVR), Bioprosthetic	Replacement of the aortic valve with a bioprosthetic prosthetic valve.
700	Valve replacement, Aortic (AVR), Homograft	Replacement of the aortic valve with a homograft prosthetic valve.
715	Aortic root replacement, Bioprosthetic	Replacement of the aortic root (that portion of the aorta attached to the heart; it gives rise to the coronary arteries) with a bioprosthesis (e.g., porcine) in a conduit, often composite.
720	Aortic root replacement, Mechanical	Replacement of the aortic root (that portion of the aorta attached to the heart; it gives rise to the coronary arteries) with a mechanical prosthesis in a composite conduit.
730	Aortic root replacement, Homograft	Replacement of the aortic root (that portion of the aorta attached to the heart; it gives rise to the coronary arteries) with a homograft.
735	Aortic root replacement, Valve sparing	Replacement of the aortic root (that portion of the aorta attached to the heart; it gives rise to the coronary arteries) without replacing the aortic valve (using a tube graft).
740	Ross procedure	Replacement of the aortic valve with a pulmonary autograft and replacement of the pulmonary valve with a homograft conduit.
750	Konno procedure	Relief of left ventricular outflow tract obstruction associated with aortic annular hypoplasia, aortic valvar stenosis and/or aortic valvar insufficiency via Konno aortoventriculoplasty. Components of the surgery include a longitudinal incision in the aortic septum, a vertical incision in the outflow tract of the right ventricle to join the septal incision, aortic valve replacement, and patch reconstruction of the outflow tracts of both ventricles.
760	Ross-Konno procedure	Relief of left ventricular outflow tract obstruction associated with aortic annular hypoplasia, aortic valvar stenosis and/or aortic valvar insufficiency via Konno aortoventriculoplasty using a pulmonary autograft root for the aortic root replacement.
770	Other annular enlargement procedure	Techniques included under this procedure code include those designed to effect aortic annular enlargement that are not included in other procedure codes. These include the Manouguian and Nicks aortic annular enlargement procedures.

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780	Aortic stenosis, Subvalvar, Repair	Subvalvar aortic stenosis repair by a range of techniques including excision, excision and myotomy, excision and myomectomy, myotomy, myomectomy, initial placement of apical-aortic conduit (LV to aorta conduit replacement would be coded as conduit reoperation), Vouhé aortoventriculoplasty (aortic annular incision at commissure of left and right coronary cusps is carried down to the septum and RV infundibulum; septal muscle is resected, incisions are closed, and the aortic annulus is reconstituted), or other aortoventriculoplasty techniques.
2100	Aortic stenosis, Subvalvar, Repair, With myectomy for IHSS	Subvalvar aortic stenosis repair including excision and myectomy
790	Aortic stenosis, Supravalvar, Repair	Repair of supravalvar aortic stenosis involving all techniques of patch aortoplasty and aortoplasty involving the use of all autologous tissue. In simple patch aortoplasty a diamond-shaped patch may be used, in the Doty technique an extended patch is placed (Y- shaped patch, incision carried into two sinuses), and in the Brom repair the ascending aorta is transected, any fibrous ridge is resected, and the three sinuses are patched separately.
800	Valve surgery, Other, Aortic	Other aortic valve surgery not specified in other procedure codes.
810	Sinus of Valsalva, Aneurysm repair	Sinus of Valsalva aneurysm repair can be organized by site of aneurysm (left, right or noncoronary sinus), type of repair (suture, patch graft, or root repair by tube graft or valved conduit), and approach used (from chamber of origin (aorta) or from chamber of penetration (LV, RV, PA, left or right atrium, etc.). Aortic root replacement procedures in association with sinus of Valsalva aneurysm repairs are usually for associated uncorrectable aortic insufficiency or multiple sinus involvement and the aortic root replacement procedure should also be listed. Additional procedures also performed at the time of sinus of Valsalva aneurysm repair include but are not limited to VSD closure, repair or replacement of aortic valve, and coronary reconstruction; these procedures should also be coded separately from the sinus of Valsalva aneurysm repair.
820	LV to aorta tunnel repair	LV to aorta tunnel repair can be accomplished by suture, patch, or both, and may require reimplantation of the right coronary artery. Associated coronary artery procedures should be coded separately from the LV to aorta tunnel repair.
830	Valvuloplasty, Mitral	Repair of mitral valve including, but not limited to: valvotomy (closed or open heart), cleft repair, annuloplasty with or without ring, chordal reconstruction, commissuorotomy, leaflet repair, or papillary muscle repair.

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Valvuloplasty converted to valve replacement in the same operation, Mitral	Mitral valve repair attempted, converted to valve replacement with prosthetic valve during the same operation
Mitral stenosis, Supravalvar mitral ring repair	Supravalvar mitral ring repair.
Valve replacement, Mitral (MVR)	Replacement of mitral valve with prosthetic valve, any kind, in suprannular or annular position.
Valve surgery, Other, Mitral	Other mitral valve surgery not specified in procedure codes.
Norwood procedure	The Norwood operation is synonymous with the term 'Norwood (Stage 1)' and is defined as an aortopulmonary connection and neoaortic arch construction resulting in univentricular physiology and pulmonary blood flow controlled with a calibrated systemic-to-pulmonary artery shunt, or a right ventricle to pulmonary artery conduit, or rarely, a cavopulmonary connection. When coding the procedure "Norwood procedure", the primary procedure of the operation should be "Norwood procedure". The second procedure that is coded as part of the Norwood (Stage 1) operation (Procedure 2 after the Norwood procedure) must then document the source of pulmonary blood flow and be chosen from the following eight choices: 1. Shunt, Systemic to pulmonary, Modified Blalock- Taussig Shunt (MBTS) 2. Shunt, Systemic to pulmonary, Central (from aorta or to main pulmonary artery) 3. Shunt, Systemic to pulmonary anastomosis (BDCPA) (bidirectional Glenn) 6. Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn) 7. Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn) 8. HemiFontan
HLHS biventricular repair	Performed in patients who have small but adequately sized ventricles to support systemic circulation. These patients usually have small, but not stenotic, aortic and/or mitral valves. Primary biventricular repair has consisted of extensive aortic arch and ascending aorta enlargement with a patch, closure of interventricular and interatrial communications, and conservative approach for left ventricular outflow tract obstruction (which may include mitral stenosis at any level, subaortic stenosis, aortic stenosis, aortic arch hypoplasia, coarctation, or interrupted aortic arch). Concurrent operations (e.g., coarctation repair, aortic valve repair or replacement, etc.) can be coded separately within the database.
	Valvuloplasty converted to valve replacement in the same operation, Mitral Mitral stenosis, Supravalvar mitral ring repair Valve replacement, Mitral (MVR) Valve surgery, Other, Mitral Norwood procedure

2755	Conduit insertion right
	ventricle to pulmonary artery
	+ Intraventricular tunnel left
	ventricle to neoaorta + Arch
	reconstruction (Rastelli and
	Norwood type arch
	reconstruction) (Yasui)

2160 Hybrid Approach "Stage 1", Application of RPA & LPA bands

2170 Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA)

- 2180 Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA) + application of RPA & LPA bands
- 2140 Hybrid approach "Stage 2", Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Aortic arch repair (Norwood [Stage 1] + Superior Cavopulmonary anastomosis(es) + PA Debanding)

A "Hybrid Procedure" is defined as a procedure that combines surgical and transcatheter interventional approaches. The term "Hybrid approach" is used somewhat differently than the term "Hybrid Procedure". A "Hybrid approach" is defined as any of a group of procedures that fit into the general silo of procedures developed from the combined use of surgical and transcatheter interventional techniques. Therefore, not all procedures classified as "Hybrid approach" are truly "Hybrid Procedures".

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		commenced with a hybrid procedure.
2150	Hybrid approach "Stage 2", Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Without aortic arch repair	A "Hybrid Procedure" is defined as a procedure that combines surgical and transcatheter interventional approaches. The term "Hybrid approach" is used somewhat differently than the term "Hybrid Procedure". A "Hybrid approach" is defined as any of a group of procedures that fit into the general silo of procedures developed from the combined use of surgical and transcatheter interventional techniques. Therefore, not all procedures classified as "Hybrid approach" are truly "Hybrid Procedures". It should be acknowledged that a Hybrid approach "Stage 2" (Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding, with or without Aortic arch repair) gets its name not because it has any actual hybrid elements, but because it is part of a planned staged approach that is typically commenced with a hybrid procedure.
2760	Hybrid Approach, Transcardiac balloon dilation	
2770	Hybrid Approach, Transcardiac transcatheter device placement	
890	Transplant, Heart	Heart transplantation, any technique, allograft or xenograft.
900	Transplant, Heart and lung	Heart and lung (single or double) transplantation.
910	Partial left ventriculectomy (LV volume reduction surgery) (Batista)	Wedge resection of LV muscle, with suturing of cut edges together, to reduce LV volume.
920	Pericardial drainage procedure	Pericardial drainage can include a range of therapies including, but not limited to: pericardiocentesis, pericardiostomy tube placement, pericardial window creation, and open pericardial drainage (pericardiotomy).
930	Pericardiectomy	Surgical removal of the pericardium.
940	Pericardial procedure, Other	Other pericardial procedures that include, but are not limited to: pericardial reconstruction for congenital absence of the pericardium, pericardial biopsy, pericardial mass or cyst excision.
950	Fontan, Atrio-pulmonary connection	The atrio-pulmonary Fontan is a type of Fontan with connection of the atrium to the pulmonary artery. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart.
960	Fontan, Atrio-ventricular connection	The atrio-ventricular Fontan is a type of Fontan with atrio-ventricular connection, either direct or with RA- RV conduit, valved or nonvalved. "The Fontan" is defined as an operation or intervention that results in

caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart. 970 Fontan, TCPC, Lateral tunnel, The lateral tunnel Fontan is a TCPC type of Fontan Fenestrated Procedure created with anastomosis of SVC and right atrium to the branch pulmonary artery and an intra-atrial baffle to direct IVC flow to pulmonary artery. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart. A "TCPC" is a Fontan where both the superior caval vein and the inferior caval vein are connected to the pulmonary circulation through separate connections that are either direct connections or tubular pathways. A fenestration of a Fontan is defined as a communication that is created to allow flow of blood between the systemic and pulmonary venous chambers. 980 Fontan, TCPC, Lateral tunnel, The lateral tunnel Fontan is a TCPC type of Fontan Nonfenestrated Procedure created with anastomosis of SVC and right atrium to the branch pulmonary artery and an intra-atrial baffle to direct IVC flow to pulmonary artery. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart. A "TCPC" is a Fontan where both the superior caval vein and the inferior caval vein are connected to the pulmonary circulation through separate connections that are either direct connections or tubular pathways. A fenestration of a Fontan is defined as a communication that is created to allow flow of blood between the systemic and pulmonary venous chambers. 1000 Fontan, TCPC, External The external conduit Fontan is a TCPC type of Fontan conduit, Fenestrated operation created with anastomosis of SVC to the branch pulmonary artery a conduit outside of the heart to connect the infradiaphragmatic systemic venous return to the pulmonary artery. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart. A "TCPC" is a Fontan where both the superior caval vein and the inferior caval vein are connected to the pulmonary circulation through separate connections that are either direct connections or tubular pathways. A fenestration of a Fontan is defined as a communication that is created to allow flow of blood between the systemic and pulmonary venous chambers. 1010 Fontan, TCPC, External The external conduit Fontan is a TCPC type of Fontan conduit, Nonfenestrated operation created with anastomosis of SVC to the branch pulmonary artery a conduit outside of the heart

to connect the infradiaphragmatic systemic venous

2780 Fontan, TCPC, Intra/extracardiac conduit, Fenestrated

2790 Fontan, TCPC, Intra/extracardiac conduit, Nonfenestrated

1025 Fontan revision or conversion (Re-do Fontan)

return to the pulmonary artery. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart. A "TCPC" is a Fontan where both the superior caval vein and the inferior caval vein are connected to the pulmonary circulation through separate connections that are either direct connections or tubular pathways. A fenestration of a Fontan is defined as a communication that is created to allow flow of blood between the systemic and pulmonary venous chambers.

The TCPC with Intra/extracardiac conduit is a TCPC type of Fontan operation created with a tube where the tube is attached to the inferior caval vein inside of the heart, and then the tube passes outside of the heart and is attached to the pulmonary artery outside of the heart. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart. A "TCPC" is a Fontan where both the superior caval vein and the inferior caval vein are connected to the pulmonary circulation through separate connections that are either direct connections or tubular pathways. A fenestration of a Fontan is defined as a communication that is created to allow flow of blood between the systemic and pulmonary venous chambers.

The TCPC with Intra/extracardiac conduit is a TCPC type of Fontan operation created with a tube where the tube is attached to the inferior caval vein inside of the heart, and then the tube passes outside of the heart and is attached to the pulmonary artery outside of the heart. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart. A "TCPC" is a Fontan where both the superior caval vein and the inferior caval vein are connected to the pulmonary circulation through separate connections that are either direct connections or tubular pathways. A fenestration of a Fontan is defined as a communication that is created to allow flow of blood between the systemic and pulmonary venous chambers.

"Fontan revision or conversion (Re-do Fontan)" is defined as an operation where a previously created Fontan circuit is either modified or taken down and changed into a different type of Fontan. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart. A "TCPC" is a Fontan where both the superior caval vein and the inferior caval vein are connected to the pulmonary

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		circulation through separate connections that are either direct connections or tubular pathways.
1030	Fontan, Other	Other Fontan procedure not specified in procedure codes. May include takedown of a Fontan procedure. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart.
2340	Fontan + Atrioventricular valvuloplasty	"Fontan + Atrioventricular valvuloplasty" is defined as an operation to repair the systemic atrioventricular valve combined with a Fontan operation. Please also code the type of Fontan operation performed as the second procedure of this operation. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart.
1035	Ventricular septation	Creation of a prosthetic ventricular septum. Surgical procedure used to septate univentricular hearts with two atrioventricular valves. Additional procedures, such as resection of subpulmonic stenosis, should be listed separately.
1050	Congenitally corrected TGA repair, Atrial switch and ASO (double switch)	Repair of congenitally corrected TGA by concomitant atrial switch (Mustard or Senning) and arterial switch operation. VSD closure is usually performed as well; this should be coded separately.
1060	Congenitally corrected TGA repair, Atrial switch and Rastelli	Repair of congenitally corrected TGA by concomitant atrial switch (Mustard or Senning) and VSD closure to the aortic valve with placement of an RV-to-PA conduit.
1070	Congenitally corrected TGA repair, VSD closure	Repair of congenitally corrected TGA by VSD closure only.
1080	Congenitally corrected TGA repair, VSD closure and LV to PA conduit	Repair of congenitally corrected TGA by VSD closure and placement of an LV-to-PA conduit.
1090	Congenitally corrected TGA repair, Other	Any procedures for correction of CCTGA not otherwise specified in other listed procedure codes.
1110	Arterial switch operation (ASO)	Arterial switch operation is used for repair of transposition of the great arteries (TGA). The pulmonary artery and aorta are transected and translocated so that the pulmonary artery arises from the right ventricle and the aorta from the left ventricle. Coronary artery transfer is also accomplished.
1120	Arterial switch operation (ASO) and VSD repair	Arterial switch operation is used for repair of transposition of the great arteries (TGA). The pulmonary artery and aorta are transected and translocated so that the pulmonary artery arises from the right ventricle and the aorta from the left ventricle. Coronary artery transfer is also accomplished. The VSD is closed, usually with a patch.

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1123	Arterial switch procedure + Aortic arch repair	Concomitant arterial switch operation and repair of the aortic arch in patients with transposition of the great arteries with intact ventricular septum and associated coarctation of the aorta or interrupted aortic arch.
1125	Arterial switch procedure and VSD repair + Aortic arch repair	Concomitant arterial switch operation with VSD closure and repair of aortic arch in patients with transposition of the great arteries with VSD and associated coarctation of the aorta or interrupted aortic arch.
1130	Senning	Atrial baffle procedure for rerouting of venous flow in TGA resulting in a "physiological repair". The caval flow is directed behind the baffle to the mitral valve, left ventricle and pulmonary artery while the pulmonary venous flow is directed in front of the baffle to the tricuspid valve, right ventricle, and aorta. The Senning procedure uses atrial wall to construct the baffle.
1140	Mustard	Atrial baffle procedure for rerouting of venous flow in TGA resulting in a "physiological repair". The caval flow is directed behind the baffle to the mitral valve, left ventricle and pulmonary artery while pulmonary venous flow is directed in front of the baffle to the tricuspid valve, right ventricle, and aorta. The Mustard procedure uses patch material to construct the baffle.
1145	Atrial baffle procedure, Mustard or Senning revision	Revision of a previous atrial baffle procedure (either Mustard or Senning), for any reason (e.g., obstruction, baffle leak).
1150	Rastelli	Most often used for patients with TGA-VSD and significant LVOTO, the Rastelli operation consists of an LV-to-aorta intraventricular baffle closure of the VSD and placement of an RV-to-PA conduit.
1160	REV	The Lecompte (REV) intraventricular repair is designed for patients with abnormalities of ventriculoarterial connection in whom a standard intraventricular tunnel repair cannot be performed. It is also suitable for patients in whom an arterial switch procedure with tunneling of the VSD to the pulmonary artery cannot be performed because of pulmonary (left ventricular outflow tract) stenosis. A right ventriculotomy incision is made. The infundibular (conal) septum, located between the two semilunar valves, is aggressively resected if its presence interferes with the construction of a tunnel from the VSD to the aorta. The VSD is then tunneled to the aorta. The decision to perform or not to perform the Lecompte maneuver should be made at the beginning of the operation. If the Lecompte maneuver is not performed the pulmonary artery is translocated to the right ventricular outflow tract on the side of the aorta that provides the shortest route. (When the decision to perform the Lecompte maneuver has been made, the great vessels are transected and this maneuver is performed at the beginning of the operation.) The pulmonary artery orifice is then closed. The aorta, if it

had been transected during the performance of the Lecompte maneuver, is then reconstructed. A vertical incision is made on the anterior aspect of the main pulmonary artery. The posterior margin of the pulmonary artery is sutured to the superior aspect of the vertical right ventriculotomy incision. A generous patch of autologous pericardium is used to close the inferior portion of the right ventriculotomy and the anterior portion of the pulmonary artery. A monocusp pericardial valve is inserted extemporaneously.

Repair of DORV using a tunnel closure of the VSD to the aortic valve. This also includes the posterior

Because of the morphologic variability of DOLV, there

intraventricular tunnel repair directing the VSD to the pulmonary valve, the REV procedure, or the Rastelli procedure. In the case of DOLV use this code for tunnel closure to the pulmonary valve. If the REV or Rastelli procedures are performed then use those respective

Repair of coarctation of aorta by excision of the coarctation segment and end-to-end circumferential

Repair of coarctation of the aorta by excision of the

oblique ends of the aorta, creating an extended

and opening the subclavian artery, incising the

Repair of coarctation of the aorta by incising the

coarctation site with placement of a patch sutured in place longitudinally along the aortotomy edge.

Repair of coarctation of the aorta by resection of the

coarctation segment and placement of a prosthetic

coarctation segment and end-to-end anastomosis of the

Repair of coarctation of the aorta by ligating, dividing,

coarctation site, and folding down the subclavian artery onto the incision in the aorta, suturing the subclavian "flap" in place, creating a roof over the area of the

straight tunnel repair of Kawashima

codes.

anastomosis.

previous coarctation.

anastomosis of the aorta.

are many approaches to repair, including:

- 2190 Aortic root translocation over left ventricle (Including Nikaidoh procedure)
- 2210 TGA, Other procedures (Kawashima, LV-PA conduit, other)
- 1180 DORV, Intraventricular tunnel repair
- 1200 DOLV repair

- 1210 Coarctation repair, End to end
- 1220 Coarctation repair, End to end, Extended
- 1230 Coarctation repair, Subclavian flap
- 1240 Coarctation repair, Patch aortoplasty
- 1250 Coarctation repair, Interposition graft
- 1260 Coarctation repair, Other

tubular interposition graft anastomosed circumferentially to the cut ends of the aorta.

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		bypass graft, etc.
1275	Coarctation repair + VSD repair	Coarctation of aorta repair, any technique, and simultaneous VSD repair, any type VSD, any type repair.
1280	Aortic arch repair	Aortic arch repair, any technique.
1285	Aortic arch repair + VSD repair	Aortic arch repair, any technique, and simultaneous VSD repair, any type VSD, any type repair. This includes repair of IAA with VSD.
1290	Coronary artery fistula ligation	Coronary artery fistula repair using any technique. If additional technique information may be supplied by another procedure code, please list separately (e.g., bypass graft).
1291	Anomalous origin of coronary artery from pulmonary artery repair	Repair of anomalous origin of the coronary artery (any) from the pulmonary artery, by any technique (ligation, translocation with aortic implantation, Takeuchi operation, or bypass graft). If additional technique information may be supplied by another procedure code, please list separately (for example, bypass graft).
1300	Coronary artery bypass	Coronary artery bypass graft procedure, any technique (with or without CPB, venous or arterial graft, one or more grafts, etc.), for any coronary artery pathology (coronary arterial fistula, aneurysm, coronary bridging, atresia of left main, acquired coronary artery disease, etc.).
1305	Anomalous aortic origin of coronary artery from aorta (AAOCA) repair	
1310	Coronary artery procedure, Other	Any coronary artery procedure not specifically listed.
1320	Interrupted aortic arch repair	Repair of interrupted aortic arch (any type) by any technique (direct anastomosis, prosthetic graft, etc.). Does not include repair of IAA-VSD.
1330	PDA closure, Surgical	Closure of a PDA by any surgical technique (ligation, division, clip) using any approach (i.e., thoracotomy, thoracoscopic, etc.).
1340	PDA closure, Device	Closure of a PDA by device using transcatheter techniques.
1360	Vascular ring repair	Repair of vascular ring (any type, except pulmonary artery sling) by any technique.
1365	Aortopexy	Surgical fixation of the aorta to another structure (usually the posterior aspect of the sternum) to relieve compression on another vessel or structure (e.g., trachea).
1370	Pulmonary artery sling repair	Pulmonary artery sling repair by any technique.
1380	Aortic aneurysm repair	Aortic aneurysm repair by any technique.
1390	Aortic dissection repair	Aortic dissection repair by any technique.
1400	Lung biopsy	Lung biopsy, any technique.

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1410	Transplant, lung(s)	Lung or lobe transplantation of any type.
1420	Lung procedure, Other	Included in this procedure code would be any lung procedure other than transplant, such as, but not limited to: pneumonectomy (left or right), lobectomy (any lobe), bilobectomy (two lobes), segmental lung resection (any segment), or wedge resection.
1440	Tracheal procedure	Any tracheal procedure, including but not limited to relief of tracheal stenosis (any means including pericardial graft, autograft insertion, homograft insertion, resection with reanastomosis, rib cartilage insertion, or slide tracheoplasty). Tracheal stent placement or balloon dilation should be coded separately.
2800	Muscle flap, Trunk (i.e. intercostal, pectus, or serratus muscle)	A trunk muscle flap (intercostal, pectus, or serratus muscle) is rotated to buttress or augment a suture line, anastomosis or fill the pleural space.
2810	Muscle flap, Trunk (i.e. latissimus dorsi)	A trunk muscle flap (latissimus dorsi) is rotated to buttress or augment a suture line, anastomosis or fill the pleural space.
2820	Removal, Sternal wire	Excision of wire used to approximate sternum, previous sternotomy
2830	Rib excision, Complete	Complete excision of rib(s)
2840	Rib excision, Partial	Partial excision of rib(s)
2850	Sternal fracture - open treatment	Repair of a sternal fracture with sutures, wires, plates or bars.
2860	Sternal resection, Radical resection of sternum	Involves removal of the sternum with complex reconstructive requirements for either a tumor or severe sternal infection.
2870	Sternal resection, Radical resection of sternum with mediastinal lymphadenectomy	Involves resection of the sternum and mediastinal lymph node dissection.
2880	Tumor of chest wall - Excision including ribs	Excision of ribs and attached muscles for a benign or malignant tumor of the chest wall. When three or less ribs are taken or if the defect is covered by the scapula, reconstruction may not be necessary.
2890	Tumor of chest wall - Excision including ribs, With reconstruction	Resection of the chest wall tumor with reconstruction of the defect, usually with plastic mesh (marlex, prolene), methylmethracralate/mesh sandwich or a muscle flap.
2900	Tumor of soft tissue of thorax - Excision of deep subfascial or intramuscular tumor	Excision of a deep chest wall tumor that involves the muscles but not the ribs. These would usually be benign tumors such as a fibroma or a deep lipoma.
2910	Tumor of soft tissue of thorax - Excision of subcutaneous tumor	Excision of tumor in the skin/fat of the chest wall-typically a lipoma.
2920	Tumor of soft tissue of thorax - Radical resection	En-bloc, radical excision of a cancer of the chest wall muscles, involving the skin, fat and muscles. Typically

		it would be a desmoid tumor or a sarcoma malignant fibrous histiocytoma, rhabdomyosarcoma.
2930	Hyoid myotomy and suspension	Typically done as a suprahyoid laryngeal release to reduce tension on a cervical tracheal resection anastomosis. The hyoid bone is cut laterally on both sides to allow it to drop down and thus lower the larynx and trachea.
2940	Muscle flap, Neck	A neck muscle flap is rotated to buttress or augment a suture line, anastomosis or fill a space. Commonly used neck muscles are strap muscles, sternocleidomastoid muscle, levator scapulae.
2950	Procedure on neck	Unlisted procedure of the neck
2960	Tumor of soft tissue of neck - Excision of deep subfascial or intramuscular tumor	Excision of a tumor that involves the muscles of the neck. These would usually be benign tumors such as a fibroma or a deep lipoma.
2970	Tumor of soft tissue of neck - Excision of subcutaneous tumor	Excision of a tumor in the skin/fat of the neck-typically a lipoma.
2980	Tumor of soft tissue of neck - Radical resection	A surgical procedure in which the fibrofatty contents of the neck are removed for the treatment of cervical lymphatic metastases. Neck dissection is most commonly used in the management of cancers of the upper aerodigestive tract. It is also used for malignancies of the skin of the head and neck area, the thyroid, and the salivary glands.
2990	Pectus bar removal	Removal of a previously implanted chest wall bar
3000	Pectus bar repositioning	Repositioning of a previously implanted chest wall bar
3010	Pectus repair, Minimally invasive repair (Nuss), With thoracoscopy	Placement of a Nuss transverse chest wall bar to push the sternum forward to repair a pectus deformity, with thoracoscopy
3020	Pectus repair, Minimally invasive repair (Nuss), Without thoracoscopy	Placement of a Nuss transverse chest wall bar to push the sternum forward to repair a pectus deformity, without thoracoscopy
3030	Pectus repair, Open repair	Resection of several costal cartilages, a partial osteotomy of the sternum, and often placement of a temporary bar for stabilization of pectus chest wall deformity
3040	Division of scalenus anticus, With resection of a cervical rib	Repair of Thoracic Outlet Syndrome variant where the scalenus anticus muscle or a band from it impinges on the brachial plexus along with resection of the abnormal cervical rib
3050	Division of scalenus anticus, Without resection of a cervical rib	Repair of Thoracic Outlet Syndrome variant where the scalenus anticus muscle or a band from it impinges on the brachial plexus along without resection of the abnormal cervical rib
3060	Rib excision, Excision of cervical rib	Removal of the first rib or a cervical rib for treatment of Thoracic Outlet Syndrome

Removal of the first rib or a cervical rib and

3070 Rib excision, Excision of

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	cervical rib, With sympathectomy	sympathectomy for treatment of Thoracic Outlet Syndrome
3080	Rib excision, Excision of first rib	Removal of the first rib
3090	Rib excision, Excision of first rib, With sympathectomy	Removal of the first rib and sympathectomy
3100	Procedure on thorax	Unlisted procedure on thorax
1450	Pacemaker implantation, Permanent	Implantation of a permanent pacemaker of any type (e.g., single-chamber, dual-chamber, atrial antitachycardia), with any lead configuration or type (atrial, ventricular, atrial and ventricular, transvenous, epicardial, transmural), by any technique (sternotomy, thoracotomy etc.).
1460	Pacemaker procedure	Any revision to a previously placed pacemaker system including revisions to leads, generators, pacemaker pockets. This may include explantation of pacemakers or leads as well.
2350	Explantation of pacing system	Removal of pacemaker generator and wires
1470	ICD (AICD) implantation	Implantation of an (automatic) implantable cardioverter defibrillator system.
1480	ICD (AICD) ([automatic] implantable cardioverter defibrillator) procedure	Any revision to a previously placed AICD including revisions to leads, pads, generators, pockets. This may include explantation procedures as well.
1490	Arrhythmia surgery - atrial, Surgical Ablation	Surgical ablation (any type) of any atrial arrhythmia.
1500	Arrhythmia surgery - ventricular, Surgical Ablation	Surgical ablation (any type) of any ventricular arrhythmia.
2500	Cardiovascular catheterization procedure, Diagnostic	Invasive diagnostic procedure involving the heart and great vessels
2520	Cardiovascular catheterization procedure, Diagnostic, Angiographic data obtained	Invasive diagnostic procedure involving the heart and great vessels using angiography
2550	Cardiovascular catheterization procedure, Diagnostic, Electrophysiology alteration	
2540	Cardiovascular catheterization procedure, Diagnostic, Hemodynamic alteration	Invasive diagnostic procedure involving pressure or flow alteration in the cardiovascular system
2510	Cardiovascular catheterization procedure, Diagnostic, Hemodynamic data obtained	Invasive diagnostic procedure involving pressure and flow assessment of the heart and great vessels
2530	Cardiovascular	

2530 Cardiovascular

	catheterization procedure, Diagnostic, Transluminal test occlusion	
2410	Cardiovascular catheterization procedure, Therapeutic	Invasive therapeutic procedure involving the heart and great vessels
2670	Cardiovascular catheterization procedure, Therapeutic, Adjunctive therapy	
1540	Cardiovascular catheterization procedure, Therapeutic, Balloon dilation	Invasive therapeutic procedure involving balloon dilation of a cardiovascular structure
2590	Cardiovascular catheterization procedure, Therapeutic, Balloon valvotomy	Invasive therapeutic procedure involving balloon dilation of a valve
1580	Cardiovascular catheterization procedure, Therapeutic, Coil implantation	Invasive therapeutic procedure involving implantation of a coil
1560	Cardiovascular catheterization procedure, Therapeutic, Device implantation	Invasive therapeutic procedure involving implantation of a device
3110	Cardiovascular catheterization procedure, Therapeutic, Device implantation attempted	Invasive therapeutic procedure involving attempted but unsuccessful implantation of a device
2690	Cardiovascular catheterization procedure, Therapeutic, Electrophysiological ablation.	Invasive therapeutic procedure involving Catheter based creation of lesions in the heart with radiofrequency energy, cryotherapy, or ultrasound energy to cure or control arrhythmias
3120	Cardiovascular catheterization procedure, Therapeutic, Intravascular foreign body removal	Invasive therapeutic procedure involving removal of an intravascular foreign body
2640	Cardiovascular catheterization procedure, Therapeutic, Perforation (establishing interchamber and/or intervessel communication)	Invasive therapeutic procedure establishing interchamber and/or intervessel communication
2580	Cardiovascular catheterization procedure, Therapeutic, Septostomy	Invasive therapeutic procedure establishing an intracardiac septal communication
1550	Cardiovascular catheterization procedure, Therapeutic, Stent insertion	Invasive therapeutic procedure involving implantation of a stent

2630	Cardiovascular catheterization procedure, Therapeutic, Stent re-dilation	Invasive therapeutic procedure involving dilation of a previously implanted stent
2650	Cardiovascular catheterization procedure, Therapeutic, Transcatheter Fontan completion	
2660	Cardiovascular catheterization procedure, Therapeutic, Transcatheter implantation of valve	Invasive therapeutic procedure involving deployment/ implantation of a valve
1590	Shunt, Systemic to pulmonary, Modified Blalock- Taussig Shunt (MBTS)	Placement of a tube graft from a branch of the aortic arch to the pulmonary artery with or without bypass, from any approach (thoracotomy, sternotomy).
1600	Shunt, Systemic to pulmonary, Central (shunt from aorta)	A direct anastomosis or placement of a tube graft from the aorta to the pulmonary artery with or without bypass, from any approach (thoracotomy, sternotomy).
3130	Shunt, Systemic to pulmonary, Central (shunt from aorta), Central shunt with an end-to-side connection between the transected main pulmonary artery and the side of the ascending aorta (i.e. Mee shunt)	Creation of a central shunt with an end-to-side connection between the transected main pulmonary artery and the side of the ascending aorta
1610	Shunt, Systemic to pulmonary, Other	Placement of any other systemic-to-pulmonary artery shunt, with or without bypass, from any approach (thoracotomy, sternotomy) that is not otherwise coded. Includes classic Blalock-Taussig systemic-to-pulmonary artery shunt.
1630	Shunt, Ligation and takedown	Takedown of any shunt.
2095	Shunt, Reoperation	Revision or replacement of a previously created shunt
1640	PA banding (PAB)	Placement of a pulmonary artery band, any type.
1650	PA debanding	Debanding of pulmonary artery. Please list separately any pulmonary artery reconstruction required.
1660	Damus-Kaye-Stansel procedure (DKS) (creation of AP anastomosis without arch reconstruction)	In the Damus-Kaye-Stansel procedure the proximal transected main pulmonary artery is connected by varying techniques to the aorta.
1670	Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn)	Superior vena cava to pulmonary artery anastomosis allowing flow to both pulmonary arteries with an end-to- side superior vena-to-pulmonary artery anastomosis.
1680	Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn)	Superior vena cava to ipsilateral pulmonary artery anastomosis (i.e., LSVC to LPA, RSVC to RPA).
1690	Bilateral bidirectional cavopulmonary anastomosis	Bilateral superior vena cava-to-pulmonary artery anastomoses (requires bilateral SVCs).

	(BBDCPA) (bilateral bidirectional Glenn)	
1700	HemiFontan	A HemiFontan is an operation that includes a bidirectional superior vena cava (SVC)-to-pulmonary artery anastomosis and the connection of this "SVC- pulmonary artery amalgamation" to the atrium, with a "dam" between this "SVC-pulmonary artery amalgamation" and the atrium. This operation can be accomplished with a variety of operative strategies including the following two techniques and other techniques that combine elements of both of these approaches: (1) Augmenting both branch pulmonary arteries with a patch and suturing the augmented branch pulmonary arteries to an incision in the medial aspect of the superior vena cava. (With this approach, the pulmonary artery patch forms a roof over the SVC-to- pulmonary artery anastomosis and also forms a "dam" between the SVC-pulmonary artery amalgamation and the right atrium.) (2) Anastomosing both ends of the divided SVC to incisions in the top and bottom of the right pulmonary artery, and using a separate patch to close junction of the SVC and the right atrium.
2330	Superior cavopulmonary anastomosis(es) (Glenn or HemiFontan) + Atrioventricular valvuloplasty	
2130	Superior Cavopulmonary anastomosis(es) + PA reconstruction	
3140	Hepatic vein to azygous vein connection, Direct	
3150	Hepatic vein to azygous vein connection, Interposition graft	
3160	Kawashima operation (superior cavopulmonary connection in setting of interrupted IVC with azygous continuation)	
1710	Palliation, Other	Any other palliative procedure not specifically listed.
2360	ECMO cannulation	Insertion of cannulas for extracorporeal membrane oxygenation
2370	ECMO decannulation	Removal of cannulas for extracorporeal membrane oxygenation
1910	ECMO procedure	Any ECMO procedure (cannulation, decannulation, etc.).
1900	Intraaortic balloon pump (IABP) insertion	Insertion of intraaortic balloon pump by any technique.
1920	Right/left heart assist device procedure	Any right, left, or biventricular assist device procedure (placement, removal etc.).

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2390	VAD explantation	Removal of ventricular assist device
2380	VAD implantation	Insertion of a ventricular assist device
3170	VAD change out	Removal of previously inserted ventricular assist device and insertion of a new device
2420	Echocardiography procedure, Sedated transesophageal echocardiogram	Procedural sedation for echocardiogram
2430	Echocardiography procedure, Sedated transthoracic echocardiogram	Procedural sedation for echocardiogram, transthoracic
2435	Non-cardiovascular, Non- thoracic procedure on cardiac patient with cardiac anesthesia	Anesthesia provided by cardiac anesthesiologist for patient with congenital heart disease undergoing a non- cardiovascular, non-thoracic procedure
2440	Radiology procedure on cardiac patient, Cardiac Computerized Axial Tomography (CT Scan)	A patient with congenital heart disease undergoing cardiac CT scan
2450	Radiology procedure on cardiac patient, Cardiac Magnetic Resonance Imaging (MRI)	A patient with congenital heart disease undergoing cardiac MRI
2460	Radiology procedure on cardiac patient, Diagnostic radiology	A patient with congenital heart disease undergoing a diagnostic radiology procedure
2470	Radiology procedure on cardiac patient, Non-Cardiac Computerized Tomography (CT) on cardiac patient	A patient with congenital heart disease undergoing a non-cardiac CT scan
2480	Radiology procedure on cardiac patient, Non-cardiac Magnetic Resonance Imaging (MRI) on cardiac patient	A patient with congenital heart disease undergoing non- cardiac MRI
2490	Radiology procedure on cardiac patient, Therapeutic radiology	A patient with congenital heart disease undergoing a therapeutic radiology procedure
1720	Aneurysm, Ventricular, Right, Repair	Repair of right ventricular aneurysm, any technique.
1730	Aneurysm, Ventricular, Left, Repair	Repair of left ventricular aneurysm, any technique.
1740	Aneurysm, Pulmonary artery, Repair	Repair of pulmonary artery aneurysm, any technique.
1760	Cardiac tumor resection	Resection of cardiac tumor, any type.
1780	Pulmonary AV fistula repair/occlusion	Repair or occlusion of a pulmonary arteriovenous fistula.
1790	Ligation, Pulmonary artery	Ligation or division of the pulmonary artery. Most often performed as a secondary procedure.

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1802	Pulmonary embolectomy, Acute pulmonary embolus	Acute pulmonary embolism (clot) removal, through catheter or surgery.
1804	Pulmonary embolectomy, Chronic pulmonary embolus	Chronic pulmonary embolism (clot) removal, through catheter or surgery.
1810	Pleural drainage procedure	Pleural drainage procedure via thoracocentesis, tube thoracostomy, or open surgical drainage.
1820	Pleural procedure, Other	Other pleural procedures not specifically listed; may include pleurodesis (mechanical, talc, antibiotic or other), among others.
1830	Ligation, Thoracic duct	Ligation of the thoracic duct; most commonly for persistent chylothorax.
1840	Decortication	Decortication of the lung by any technique.
1850	Esophageal procedure	Any procedure performed on the esophagus.
1860	Mediastinal procedure	Any non-cardiovascular mediastinal procedure not otherwise listed.
1870	Bronchoscopy	Bronchoscopy, rigid or flexible, for diagnostic, biopsy, or treatment purposes (laser, stent, dilation, lavage).
1880	Diaphragm plication	Plication of the diaphragm; most often for diaphragm paralysis due to phrenic nerve injury.
1890	Diaphragm procedure, Other	Any diaphragm procedure not specifically listed.
1930	VATS (video-assisted thoracoscopic surgery)	Video-assisted thoracoscopic surgery utilized; this code should be used in addition to the specific procedure code (e.g., if PDA ligated using VATS technique, PDA ligation should be primary procedure, VATS should be secondary procedure).
1940	Minimally invasive procedure	Any procedure using minimally invasive technique; this code should be used in addition to the specific procedure code (e.g., if ASD closed using minimally invasive technique, ASD repair should be primary procedure, minimally invasive procedure should be listed additionally).
1950	Bypass for noncardiac lesion	Use of cardiopulmonary bypass for noncardiac lesion; this code may be used in addition to the specific procedure code if one is available (e.g., tracheal procedures may be done using CPB - the tracheal procedure should be the primary procedure and use of cardiopulmonary bypass for noncardiac lesion should be listed additionally).
1960	Delayed sternal closure	Sternal closure effected after patient has left operating room with sternum open, either because of swelling or electively after complex heart procedures. This procedure should be operative type No CPB Cardiovascular.
1970	Mediastinal exploration	Mediastinal exploration, most often for postoperative control of bleeding or tamponade, but may be exploration to assess mediastinal mass, etc.
1980	Sternotomy wound drainage	Drainage of the sternotomy wound.

3180	Intravascular stent removal	Removal of a previously placed intravascular stent
1990	Thoracotomy, Other	Any procedure performed through a thoracotomy incision not otherwise listed.
2000	Cardiotomy, Other	Any procedure involving an incision in the heart that is not otherwise listed.
2010	Cardiac procedure, Other	Any cardiac procedure, bypass or non-bypass, that is not otherwise listed.
2020	Thoracic and/or mediastinal procedure, Other	Any thoracic and/or mediastinal procedure not otherwise listed.
2030	Peripheral vascular procedure, Other	Any peripheral vascular procedure; may include procedures such as femoral artery repair, iliac artery repair, etc.
2040	Miscellaneous procedure, Other	Any miscellaneous procedure not otherwise listed.
2050	Organ procurement	Procurement of an organ for transplant (most likely, heart, lungs, or heart and lungs).
7777	Other procedure	Any procedure on any organ system not otherwise listed.
7800	Operation canceled before skin incision	Surgical procedure canceled after patient enters the operating room but prior to skin incision
7810	Operation aborted after skin incision	Surgical procedure canceled after skin incision made

Long Name:	Other Card-Congenital Procedure 3	SeqNo:	4525
Short Name:	OCarCongProc3	Core:	Yes
Section Name:	Other Cardiac Procedures	Harvest:	Yes

DBTableName AdultData

Definition: Indicate the third of the three most significant congenital procedures.

LowValue: HighValue: Parent Long Name: 0	UsualRangeLow: UsualRangeHigh: Other Card-Congenital	Format:	Text (categorical values specified by STS)
ParentShortName: O	e e	DataLength:	Text (eutegorieur values specifica by 515)
	ε	0	
ParentValue: =	"Yes"	Data Source:	User
ParentHarvestCodes:	1		
Harvest Codes a	and Value Definitions:		
Code:	Value:	Definition:	
10	PFO, Primary closure	Suture closu	are of patent foramen ovale (PFO).
20	ASD repair, Primary closure		re of secundum (most frequently), coronary venosus or common atrium ASD.
30	ASD repair, Patch		re (using any type of patch material) of coronary sinus, or sinus venosus ASD.
40	ASD repair, Device	Closure of a device.	any type ASD (including PFO) using a

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2110	ASD repair, Patch + PAPVC repair	Patch closure (using any type of patch material) of secundum, coronary sinus, or sinus venosus ASD plus PAPVC repair, any type
50	ASD, Common atrium (single atrium), Septation	Septation of common (single) atrium using any type patch material.
60	ASD creation/enlargement	Creation of an atrial septal defect or enlargement of an existing atrial septal defect using a variety of modalities including balloon septostomy, blade septostomy, or surgical septectomy. Creation may be accomplished with or without use of cardiopulmonary bypass.
70	ASD partial closure	Intentional partial closure of any type ASD (partial suture or fenestrated patch closure).
80	Atrial septal fenestration	Creation of a fenestration (window) in the septum between the atrial chambers. Usually performed using a hole punch, creating a specifically sized communication in patch material placed on the atrial septum.
85	Atrial fenestration closure	Closure of previously created atrial fenestration using any method including device, primary suture, or patch.
100	VSD repair, Primary closure	Suture closure of any type VSD.
110	VSD repair, Patch	Patch closure (using any type of patch material) of any type VSD.
120	VSD repair, Device	Closure of any type VSD using a device.
130	VSD, Multiple, Repair	Closure of more than one VSD using any method or combination of methods. Further information regarding each type of VSD closed and method of closure can be provided by additionally listing specifics for each VSD closed. In the case of multiple VSDs in which only one is closed the procedure should be coded as closure of a single VSD. The fundamental diagnosis, in this case, would be "VSD, Multiple" and a secondary diagnosis can be the morphological type of VSD that was closed at the time of surgery.
140	VSD creation/enlargement	Creation of a ventricular septal defect or enlargement of an existing ventricular septal defect.
150	Ventricular septal fenestration	Creation of a fenestration (window) in the septum between the ventricular chambers. Usually performed using a hole punch, creating a specifically sized communication in patch material placed on the ventricular septum.
170	AVC (AVSD) repair, Complete (CAVSD)	Repair of complete AV canal (AVSD) using one- or two-patch or other technique, with or without mitral valve cleft repair.
180	AVC (AVSD) repair, Intermediate (Transitional)	Repair of intermediate AV canal (AVSD) using ASD and VSD patch, or ASD patch and VSD suture, or other technique, with or without mitral valve cleft repair.
190	AVC (AVSD) repair, Partial (Incomplete) (PAVSD)	Repair of partial AV canal defect (primum ASD), any technique, with or without repair of cleft mitral valve.
2300	Valvuloplasty, Common	Common AV valve repair, any type

C C	atrioventricular valve	
00.50	atrioventricular valve	
2250	Valvuloplasty converted to valve replacement in the same operation, Common atrioventricular valve	Common AV valve repair attempted, converted to valve replacement with prosthetic valve during the same operation
2230	Valve replacement, Common atrioventricular valve	Replacement of the common AV valve with a prosthetic valve
210	AP window repair	Repair of AP window using one- or two-patch technique with cardiopulmonary bypass; or, without cardiopulmonary bypass, using transcatheter device or surgical closure.
220	Pulmonary artery origin from ascending aorta (hemitruncus) repair	Repair of pulmonary artery origin from the ascending aorta by direct reimplantation, autogenous flap, or conduit, with or without use of cardiopulmonary bypass.
230	Truncus arteriosus repair	Truncus arteriosus repair that most frequently includes patch VSD closure and placement of a conduit from RV to PA. In some cases, a conduit is not placed but an RV to PA connection is made by direct association. Very rarely, there is no VSD to be closed. Truncal valve repair or replacement should be coded separately (Valvuloplasty, Truncal valve; Valve replacement, Truncal valve), as would be the case as well with associated arch anomalies requiring repair (e.g., Interrupted aortic arch repair).
240	Valvuloplasty, Truncal valve	Truncal valve repair, any type.
2290	Valvuloplasty converted to valve replacement in the same operation, Truncal valve	Truncal valve repair attempted, converted to valve replacement with prosthetic valve during the same operation
250	Valve replacement, Truncal valve	Replacement of the truncal valve with a prosthetic valve.
2220	Truncus + Interrupted aortic arch repair (IAA) repair	Truncus arteriosus repair usually includes patch VSD closure and placement of a conduit from RV to PA. In some cases, a conduit is not placed but an RV to PA connection is made by direct association. (Very rarely, there is no VSD) plus repair of interrupted aortic arch
260	PAPVC repair	PAPVC repair revolves around whether an intracardiac baffle is created to redirect pulmonary venous return to the left atrium or if the anomalous pulmonary vein is translocated and connected to the left atrium directly. If there is an associated ASD and it is closed, that procedure should also be listed.
270	PAPVC, Scimitar, Repair	In scimitar syndrome, PAPVC repair also revolves around whether an intracardiac baffle is created to redirect pulmonary venous return to the left atrium or if the anomalous pulmonary vein is translocated and connected to the left atrium directly. If there is an associated ASD and it is closed, that procedure should also be listed. Occasionally an ASD is created; this procedure also must be listed separately. Concomitant

		thoracic procedures (e.g., lobectomy, pneumonectomy) should also be included in the procedures listing.
2120	PAPVC repair, Baffle redirection to left atrium with systemic vein translocation (Warden) (SVC sewn to right atrial appendage)	An intracardiac baffle is created to redirect pulmonary venous return to the left atrium and SVC sewn to right atrial appendage)
280	TAPVC repair	Repair of TAPVC, any type. Issues surrounding TAPVC repair involve how the main pulmonary venous confluence anastomosis is fashioned, whether an associated ASD is closed or left open or enlarged (ASD closure and enlargement may be listed separately), and whether, particularly in mixed type TAPVC repair, an additional anomalous pulmonary vein is repaired surgically.
2200	TAPVC repair + Shunt - systemic-to-pulmonary	Repair of TAPVC, any type plus a systemic to pulmonary shunt creation
290	Cor triatriatum repair	Repair of cor triatriatum. Surgical decision making revolves around the approach to the membrane creating the cor triatriatum defect, how any associated ASD is closed, and how any associated anomalous pulmonary vein connection is addressed. Both ASD closure and anomalous pulmonary venous connection may be listed as separate procedures.
300	Pulmonary venous stenosis repair	Repair of pulmonary venous stenosis, whether congenital or acquired. Repair can be accomplished with a variety of approaches: sutureless, patch venoplasty, stent placement, etc.
310	Atrial baffle procedure (non- Mustard, non-Senning)	The atrial baffle procedure code is used primarily for repair of systemic venous anomalies, as in redirection of left superior vena cava drainage to the right atrium.
330	Anomalous systemic venous connection repair	With the exception of atrial baffle procedures (harvest code 310), anomalous systemic venous connection repair includes a range of surgical approaches, including, among others: ligation of anomalous vessels, reimplantation of anomalous vessels (with or without use of a conduit), or redirection of anomalous systemic venous flow through directly to the pulmonary circulation (bidirectional Glenn to redirect LSVC or RSVC to left or right pulmonary artery, respectively).
340	Systemic venous stenosis repair	Stenosis or obstruction of a systemic vein (most commonly SVC or IVC) may be relieved with patch or conduit placement, excision of the stenotic area with primary reanastomosis or direct reimplantation.
350	TOF repair, No ventriculotomy	Tetralogy of Fallot repair (assumes VSD closure and relief of pulmonary stenosis at one or more levels), without use of an incision in the infundibulum of the right ventricle for exposure. In most cases this would be a transatrial and transpulmonary artery approach to

repair the VSD and relieve the pulmonary stenosis. If

		the main pulmonary artery incision is extended proximally through the pulmonary annulus, this must be considered "transannular" and thus a ventricular incision, though the length of the incision onto the ventricle itself may be minimal.
360	TOF repair, Ventriculotomy, Nontransanular patch	Tetralogy of Fallot repair (assumes VSD closure and relief of pulmonary stenosis at one or more levels), with use of a ventriculotomy incision, but without placement of a trans-pulmonary annulus patch. If the main pulmonary artery incision is extended proximally through the pulmonary annulus, this must be considered "transannular" and thus a ventricular incision, though the length of the incision onto the ventricle itself may be minimal.
370	TOF repair, Ventriculotomy, Transanular patch	Tetralogy of Fallot repair (assumes VSD closure and relief of pulmonary stenosis at one or more levels), with use of a ventriculotomy incision and placement of a trans-pulmonary annulus patch. If the main pulmonary artery incision is extended proximally through the pulmonary annulus, this must be considered "transannular" and thus a ventricular incision, though the length of the incision onto the ventricle itself may be minimal.
380	TOF repair, RV-PA conduit	Tetralogy of Fallot repair (assumes VSD closure and relief of pulmonary stenosis at one or more levels), with placement of a right ventricle-to-pulmonary artery conduit. In this procedure the major components of pulmonary stenosis are relieved with placement of the RV-PA conduit.
390	TOF - AVC (AVSD) repair	Tetralogy of Fallot repair (assumes VSD closure and relief of pulmonary stenosis at one or more levels), with repair of associated AV canal defect. Repair of associated atrial septal defect or atrioventricular valve repair(s) should be listed as additional or secondary procedures under the primary TOF-AVC procedure.
400	TOF - Absent pulmonary valve repair	Repair of tetralogy of Fallot with absent pulmonary valve complex. In most cases this repair will involve pulmonary valve replacement (pulmonary or aortic homograft, porcine, other) and reduction pulmonary artery arterioplasty.
420	Pulmonary atresia - VSD (including TOF, PA) repair	For patients with pulmonary atresia with ventricular septal defect without MAPCAs, including those with tetralogy of Fallot with pulmonary atresia, repair may entail either a tetralogy-like repair with transannular patch placement, a VSD closure with placement of an RV-PA conduit, or an intraventricular tunnel VSD closure with transannular patch or RV-PA conduit placement. To assure an accurate count of repairs of pulmonary atresia-VSD without MAPCAs, even if a tetralogy-type repair or Rastelli-type repair is used, the pulmonary atresia-VSD code should be the code used,

		not Rastelli proce transannular patcl
2700	Pulmonary atresia - VSD - MAPCA repair, Complete single stage repair (1-stage that includes bilateral pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])	1-stage repair tha unifocalization + [with or without o
2710	Pulmonary atresia - VSD - MAPCA repair, Status post prior complete unifocalization (includes VSD closure + RV to PA connection [with or without conduit])	VSD closure + R conduit])
2720	Pulmonary atresia - VSD - MAPCA repair, Status post prior incomplete unifocalizarion (includes completion of pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])	Completion of pu closure + RV to F conduit])Pulmona Status post prior i
2730	Unifocalization MAPCA(s), Bilateral pulmonary unifocalization - Complete unifocalization (all usable MAPCA[s] are incorporated)	Complete unifoca incorporated
2740	Unifocalization MAPCA(s), Bilateral pulmonary unifocalization - Incomplete unifocalization (not all usable MAPCA[s] are incorporated)	Incomplete unifoo are incorporated
2750	Unifocalization MAPCA(s), Unilateral pulmonary unifocalization	MAPCA(s), Unila side)
440	Unifocalization MAPCA(s)	Anastomosis of a the left, right, or r graft or other type procedure may be
450	Occlusion of MAPCA(s)	Occlusion, or closed done with a transport coil, or by surgical
460	Valvuloplasty, Tricuspid	Reconstruction of not be limited to a leaflet patch exter

not Rastelli procedure or tetralogy of Fallot repair with transannular patch.

1-stage repair that includes bilateral pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])

VSD closure + RV to PA connection [with or without conduit])

Completion of pulmonary unifocalization + VSD closure + RV to PA connection [with or without conduit])Pulmonary atresia - VSD - MAPCA repair, Status post prior incomplete unifocalization

Complete unifocalization , all usable MAPCA[s] are incorporated

Incomplete unifocalization, not all usable MAPCA[s] are incorporated

MAPCA(s), Unilateral pulmonary unifocalization (one side)

Anastomosis of aortopulmonary collateral arteries into the left, right, or main pulmonary artery or into a tube graft or other type of confluence. The unifocalization procedure may be done on or off bypass.

Occlusion, or closing off, of MAPCAs. This may be done with a transcatheter occluding device, usually a coil, or by surgical techniques.

Reconstruction of the tricuspid valve may include but not be limited to a wide range of techniques including: leaflet patch extension, artificial chordae placement, and papillary muscle translocation with or without detachment. Annuloplasty techniques that may be done

		solely or in combination with leaflet, chordae or muscle repair to achieve a competent valve include: eccentric annuloplasty, Kay annular plication, purse-string annuloplasty (including semicircular annuloplasty), sliding annuloplasty, and annuloplasty with ring placement. Do not use this code if tricuspid valve malfunction is secondary to Ebstein's anomaly; instead use the Ebstein's repair procedure code.
2280	Valvuloplasty converted to valve replacement in the same operation, Tricuspid	Tricuspid valve repair attempted, converted to valve replacement with prosthetic valve during the same operation
465	Ebstein's repair	To assure an accurate count of repairs of Ebstein's anomaly of the tricuspid valve, this procedure code was included. Repair of Ebstein's anomaly may include, among other techniques, repositioning of the tricuspid valve, plication of the atrialized right ventricle, or right reduction atrioplasty. Often associated ASD's may be closed and arrhythmias addressed with surgical ablation procedures. These procedures should be entered as separate procedure codes.
470	Valve replacement, Tricuspid (TVR)	Replacement of the tricuspid valve with a prosthetic valve.
480	Valve closure, Tricuspid (exclusion, univentricular approach)	In a functional single ventricle heart, the tricuspid valve may be closed using a patch, thereby excluding the RV. Tricuspid valve closure may be used for infants with Ebstein's anomaly and severe tricuspid regurgitation or in patients with pulmonary atresia-intact ventricular septum with sinusoids.
490	Valve excision, Tricuspid (without replacement)	Excision of the tricuspid valve without placement of a prosthetic valve.
500	Valve surgery, Other, Tricuspid	Other tricuspid valve surgery not specified in procedure codes.
510	RVOT procedure	Included in this procedural code would be all RVOT procedures not elsewhere specified in the nomenclature system. These might be, among others: resection of subvalvar pulmonary stenosis (not DCRV type; may be localized fibrous diaphragm or high infundibular stenosis), right ventricular patch augmentation, or reduction pulmonary artery arterioplasty.
520	1 1/2 ventricular repair	Partial biventricular repair; includes intracardiac repair with bidirectional cavopulmonary anastomosis to volume unload a small ventricle or poorly functioning ventricle.
530	PA, reconstruction (plasty), Main (trunk)	Reconstruction of the main pulmonary artery trunk commonly using patch material. If balloon angioplasty is performed or a stent is placed in the main pulmonary artery intraoperatively, this code may be used in addition to the balloon dilation or stent placement code. If MPA reconstruction is performed with PA debanding, both codes should be listed.

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540	PA, reconstruction (plasty), Branch, Central (within the hilar bifurcation)	Reconstruction of the right or left branch (or both right and left) pulmonary arteries (within the hilar bifurcation) commonly using patch material. If balloon angioplasty is performed or a stent is placed in the right or left (or both) pulmonary artery intraoperatively, this code may be used in addition to the balloon dilation or stent placement code. If, rarely, branch PA banding (single or bilateral) was performed in the past and reconstruction is performed associated with debanding, both codes should be listed.
550	PA, reconstruction (plasty), Branch, Peripheral (at or beyond the hilar bifurcation)	Reconstruction of the peripheral right or left branch (or both right and left) pulmonary arteries (at or beyond the hilar bifurcation) commonly using patch material. If balloon angioplasty is performed or a stent is placed in the right or left (or both) peripheral pulmonary artery intraoperatively, this code may be used in addition to the balloon dilation or stent placement code.
570	DCRV repair	Surgical repair of DCRV combines relief of the low infundibular stenosis (via muscle resection) and closure of a VSD when present. A ventriculotomy may be required and is repaired by patch enlargement of the infundibulum. VSD closure and patch enlargement of the infundibulum, if done, should be listed as separate procedure codes.
590	Valvuloplasty, Pulmonic	Valvuloplasty of the pulmonic valve may include a range of techniques including but not limited to: valvotomy with or without bypass, commissurotomy, and valvuloplasty.
2270	Valvuloplasty converted to valve replacement in the same operation, Pulmonic	Pulmonic valve repair attempted, converted to valve replacement with prosthetic valve during the same operation
600	Valve replacement, Pulmonic (PVR)	Replacement of the pulmonic valve with a prosthetic valve. Care must be taken to differentiate between homograft pulmonic valve replacement and placement of a homograft RV-PA conduit.
630	Valve excision, Pulmonary (without replacement)	Excision of the pulmonary valve without placement of a prosthetic valve.
640	Valve closure, Semilunar	Closure of a semilunar valve (pulmonic or aortic) by any technique.
650	Valve surgery, Other, Pulmonic	Other pulmonic valve surgery not specified in procedure codes.
610	Conduit placement, RV to PA	Placement of a conduit, any type, from RV to PA.
620	Conduit placement, LV to PA	Placement of a conduit, any type, from LV to PA.
1774	Conduit placement, Ventricle to aorta	Placement of a conduit from the right or left ventricle to the aorta.
1772	Conduit placement, Other	Placement of a conduit from any chamber or vessel to any vessel, valved or valveless, not listed elsewhere.
580	Conduit reoperation	Conduit reoperation is the code to be used in the event

	<u> </u>	
		of conduit failure, in whatever position (LV to aorta, LV to PA, RA to RV, RV to aorta, RV to PA, etc.), and from whatever cause (somatic growth, stenosis, insufficiency, infection, etc.).
660	Valvuloplasty, Aortic	Valvuloplasty of the aortic valve for stenosis and/or insufficiency including, but not limited to the following techniques: valvotomy (open or closed), commissurotomy, aortic valve suspension, leaflet (left, right or noncoronary) partial resection, reduction, or leaflet shaving, extended valvuloplasty (freeing of leaflets, commissurotomy, and extension of leaflets using autologous or bovine pericardium), or annuloplasty (partial - interrupted or noncircumferential sutures, or complete - circumferential sutures).
2240	Valvuloplasty converted to valve replacement in the same operation, Aortic	Aortic valve repair attempted, converted to valve replacement with prosthetic valve during the same operation
2310	Valvuloplasty converted to valve replacement in the same operation, Aortic – with Ross procedure	Aortic valve repair attempted, converted to valve replacement with a pulmonary autograft and replacement of the pulmonary valve with a homograft conduit during the same operation
2320	Valvuloplasty converted to valve replacement in the same operation, Aortic – with Ross- Konno procedure	Aortic valve repair attempted, converted to Konno aortoventriculoplasty using a pulmonary autograft root for the aortic root replacement.
670	Valve replacement, Aortic (AVR)	Replacement of the aortic valve with a prosthetic valve (mechanical, bioprosthetic, or homograft). Use this code only if type of valve prosthesis is unknown or does not fit into the specific valve replacement codes available. Autograft valve replacement should be coded as a Ross procedure.
680	Valve replacement, Aortic (AVR), Mechanical	Replacement of the aortic valve with a mechanical prosthetic valve.
690	Valve replacement, Aortic (AVR), Bioprosthetic	Replacement of the aortic valve with a bioprosthetic prosthetic valve.
700	Valve replacement, Aortic (AVR), Homograft	Replacement of the aortic valve with a homograft prosthetic valve.
715	Aortic root replacement, Bioprosthetic	Replacement of the aortic root (that portion of the aorta attached to the heart; it gives rise to the coronary arteries) with a bioprosthesis (e.g., porcine) in a conduit, often composite.
720	Aortic root replacement, Mechanical	Replacement of the aortic root (that portion of the aorta attached to the heart; it gives rise to the coronary arteries) with a mechanical prosthesis in a composite conduit.
730	Aortic root replacement, Homograft	Replacement of the aortic root (that portion of the aorta attached to the heart; it gives rise to the coronary arteries) with a homograft.
735	Aortic root replacement,	Replacement of the aortic root (that portion of the aorta

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	Valve sparing	attached to the heart; it gives rise to the coronary arteries) without replacing the aortic valve (using a tube graft).
740	Ross procedure	Replacement of the aortic valve with a pulmonary autograft and replacement of the pulmonary valve with a homograft conduit.
750	Konno procedure	Relief of left ventricular outflow tract obstruction associated with aortic annular hypoplasia, aortic valvar stenosis and/or aortic valvar insufficiency via Konno aortoventriculoplasty. Components of the surgery include a longitudinal incision in the aortic septum, a vertical incision in the outflow tract of the right ventricle to join the septal incision, aortic valve replacement, and patch reconstruction of the outflow tracts of both ventricles.
760	Ross-Konno procedure	Relief of left ventricular outflow tract obstruction associated with aortic annular hypoplasia, aortic valvar stenosis and/or aortic valvar insufficiency via Konno aortoventriculoplasty using a pulmonary autograft root for the aortic root replacement.
770	Other annular enlargement procedure	Techniques included under this procedure code include those designed to effect aortic annular enlargement that are not included in other procedure codes. These include the Manouguian and Nicks aortic annular enlargement procedures.
780	Aortic stenosis, Subvalvar, Repair	Subvalvar aortic stenosis repair by a range of techniques including excision, excision and myotomy, excision and myomectomy, myotomy, myomectomy, initial placement of apical-aortic conduit (LV to aorta conduit replacement would be coded as conduit reoperation), Vouhé aortoventriculoplasty (aortic annular incision at commissure of left and right coronary cusps is carried down to the septum and RV infundibulum; septal muscle is resected, incisions are closed, and the aortic annulus is reconstituted), or other aortoventriculoplasty techniques.
2100	Aortic stenosis, Subvalvar, Repair, With myectomy for IHSS	Subvalvar aortic stenosis repair including excision and myectomy
790	Aortic stenosis, Supravalvar, Repair	Repair of supravalvar aortic stenosis involving all techniques of patch aortoplasty and aortoplasty involving the use of all autologous tissue. In simple patch aortoplasty a diamond-shaped patch may be used, in the Doty technique an extended patch is placed (Y- shaped patch, incision carried into two sinuses), and in the Brom repair the ascending aorta is transected, any fibrous ridge is resected, and the three sinuses are patched separately.
800	Valve surgery, Other, Aortic	Other aortic valve surgery not specified in other procedure codes.

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810	Sinus of Valsalva, Aneurysm repair	Sinus of Valsalva aneurysm repair can be organized by site of aneurysm (left, right or noncoronary sinus), type of repair (suture, patch graft, or root repair by tube graft or valved conduit), and approach used (from chamber of origin (aorta) or from chamber of penetration (LV, RV, PA, left or right atrium, etc.). Aortic root replacement procedures in association with sinus of Valsalva aneurysm repairs are usually for associated uncorrectable aortic insufficiency or multiple sinus involvement and the aortic root replacement procedures should also be listed. Additional procedures also performed at the time of sinus of Valsalva aneurysm repair include but are not limited to VSD closure, repair or replacement of aortic valve, and coronary reconstruction; these procedures should also be coded separately from the sinus of Valsalva aneurysm repair.
820	LV to aorta tunnel repair	LV to aorta tunnel repair can be accomplished by suture, patch, or both, and may require reimplantation of the right coronary artery. Associated coronary artery procedures should be coded separately from the LV to aorta tunnel repair.
830	Valvuloplasty, Mitral	Repair of mitral valve including, but not limited to: valvotomy (closed or open heart), cleft repair, annuloplasty with or without ring, chordal reconstruction, commissuorotomy, leaflet repair, or papillary muscle repair.
2260	Valvuloplasty converted to valve replacement in the same operation, Mitral	Mitral valve repair attempted, converted to valve replacement with prosthetic valve during the same operation
840	Mitral stenosis, Supravalvar mitral ring repair	Supravalvar mitral ring repair.
850	Valve replacement, Mitral (MVR)	Replacement of mitral valve with prosthetic valve, any kind, in suprannular or annular position.
860	Valve surgery, Other, Mitral	Other mitral valve surgery not specified in procedure codes.
870	Norwood procedure	The Norwood operation is synonymous with the term 'Norwood (Stage 1)' and is defined as an aortopulmonary connection and neoaortic arch construction resulting in univentricular physiology and pulmonary blood flow controlled with a calibrated systemic-to-pulmonary artery shunt, or a right ventricle to pulmonary artery conduit, or rarely, a cavopulmonary connection. When coding the procedure "Norwood procedure", the primary procedure of the operation should be "Norwood procedure". The second procedure that is coded as part of the Norwood (Stage 1) operation (Procedure 2 after the Norwood procedure) must then document the source of pulmonary blood flow and be chosen from the following eight choices: 1. Shunt, Systemic to pulmonary, Modified Blalock-

		 Taussig Shunt (MBTS) 2. Shunt, Systemic to pulmonary, Central (from aorta or to main pulmonary artery) 3. Shunt, Systemic to pulmonary, Other 4. Conduit placement, RV to PA 5. Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn) 6. Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn) 7. Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn) 8. HemiFontan
880	HLHS biventricular repair	Performed in patients who have small but adequately sized ventricles to support systemic circulation. These patients usually have small, but not stenotic, aortic and/or mitral valves. Primary biventricular repair has consisted of extensive aortic arch and ascending aorta enlargement with a patch, closure of interventricular and interatrial communications, and conservative approach for left ventricular outflow tract obstruction (which may include mitral stenosis at any level, subaortic stenosis, aortic stenosis, aortic arch hypoplasia, coarctation, or interrupted aortic arch). Concurrent operations (e.g., coarctation repair, aortic valve repair or replacement, etc.) can be coded separately within the database.
2755	Conduit insertion right ventricle to pulmonary artery + Intraventricular tunnel left ventricle to neoaorta + Arch reconstruction (Rastelli and Norwood type arch reconstruction) (Yasui)	
2160	Hybrid Approach "Stage 1", Application of RPA & LPA bands	A "Hybrid Procedure" is defined as a procedure that combines surgical and transcatheter interventional approaches. The term "Hybrid approach" is used somewhat differently than the term "Hybrid Procedure". A "Hybrid approach" is defined as any of a group of procedures that fit into the general silo of procedures developed from the combined use of surgical and transcatheter interventional techniques. Therefore, not all procedures classified as "Hybrid approach" are truly "Hybrid Procedures".
2170	Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA)	A "Hybrid Procedure" is defined as a procedure that combines surgical and transcatheter interventional approaches. The term "Hybrid approach" is used somewhat differently than the term "Hybrid Procedure". A "Hybrid approach" is defined as any of a group of procedures that fit into the general silo of procedures developed from the combined use of surgical and transcatheter interventional techniques. Therefore, not all procedures classified as "Hybrid

2180 Hybrid Approach "Stage 1", Stent placement in arterial duct (PDA) + application of RPA & LPA bands

2140 Hybrid approach "Stage 2", Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Aortic arch repair (Norwood [Stage 1] + Superior Cavopulmonary anastomosis(es) + PA Debanding)

2150 Hybrid approach "Stage 2", Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Without aortic arch repair approach" are truly "Hybrid Procedures".

A "Hybrid Procedure" is defined as a procedure that combines surgical and transcatheter interventional approaches. The term "Hybrid approach" is used somewhat differently than the term "Hybrid Procedure". A "Hybrid approach" is defined as any of a group of procedures that fit into the general silo of procedures developed from the combined use of surgical and transcatheter interventional techniques. Therefore, not all procedures classified as "Hybrid approach" are truly "Hybrid Procedures".

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A "Hybrid Procedure" is defined as a procedure that combines surgical and transcatheter interventional approaches. The term "Hybrid approach" is used somewhat differently than the term "Hybrid Procedure". A "Hybrid approach" is defined as any of a group of procedures that fit into the general silo of procedures developed from the combined use of surgical and transcatheter interventional techniques. Therefore, not all procedures classified as "Hybrid approach" are truly "Hybrid Procedures". It should be acknowledged that a Hybrid approach "Stage 2" (Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding, with or without Aortic arch repair) gets its name not because it has any actual hybrid elements, but because it is part of a planned staged approach that is typically commenced with a hybrid procedure.

- 2760 Hybrid Approach, Transcardiac balloon dilation
- 2770 Hybrid Approach, Transcardiac transcatheter device placement
- 890 Transplant, Heart

Heart transplantation, any technique, allograft or

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		xenograft.
900	Transplant, Heart and lung	Heart and lung (single or double) transplantation.
910	Partial left ventriculectomy (LV volume reduction surgery) (Batista)	Wedge resection of LV muscle, with suturing of cut edges together, to reduce LV volume.
920	Pericardial drainage procedure	Pericardial drainage can include a range of therapies including, but not limited to: pericardiocentesis, pericardiostomy tube placement, pericardial window creation, and open pericardial drainage (pericardiotomy).
930	Pericardiectomy	Surgical removal of the pericardium.
940	Pericardial procedure, Other	Other pericardial procedures that include, but are not limited to: pericardial reconstruction for congenital absence of the pericardium, pericardial biopsy, pericardial mass or cyst excision.
950	Fontan, Atrio-pulmonary connection	The atrio-pulmonary Fontan is a type of Fontan with connection of the atrium to the pulmonary artery. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart.
960	Fontan, Atrio-ventricular connection	The atrio-ventricular Fontan is a type of Fontan with atrio-ventricular connection, either direct or with RA- RV conduit, valved or nonvalved. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart.
970	Fontan, TCPC, Lateral tunnel, Fenestrated	The lateral tunnel Fontan is a TCPC type of Fontan Procedure created with anastomosis of SVC and right atrium to the branch pulmonary artery and an intra-atrial baffle to direct IVC flow to pulmonary artery. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart. A "TCPC" is a Fontan where both the superior caval vein and the inferior caval vein are connected to the pulmonary circulation through separate connections that are either direct connections or tubular pathways. A fenestration of a Fontan is defined as a communication that is created to allow flow of blood between the systemic and pulmonary venous chambers.
980	Fontan, TCPC, Lateral tunnel, Nonfenestrated	The lateral tunnel Fontan is a TCPC type of Fontan Procedure created with anastomosis of SVC and right atrium to the branch pulmonary artery and an intra-atrial baffle to direct IVC flow to pulmonary artery. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart. A "TCPC" is a

Fontan where both the superior caval vein and the inferior caval vein are connected to the pulmonary circulation through separate connections that are either direct connections or tubular pathways. A fenestration of a Fontan is defined as a communication that is created to allow flow of blood between the systemic and pulmonary venous chambers.

The external conduit Fontan is a TCPC type of Fontan operation created with anastomosis of SVC to the branch pulmonary artery a conduit outside of the heart to connect the infradiaphragmatic systemic venous return to the pulmonary artery. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart. A "TCPC" is a Fontan where both the superior caval vein and the inferior caval vein are connected to the pulmonary circulation through separate connections that are either direct connections or tubular pathways. A fenestration of a Fontan is defined as a communication that is created to allow flow of blood between the systemic and pulmonary venous chambers.

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The TCPC with Intra/extracardiac conduit is a TCPC type of Fontan operation created with a tube where the tube is attached to the inferior caval vein inside of the heart, and then the tube passes outside of the heart and is attached to the pulmonary artery outside of the heart. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart. A "TCPC" is a Fontan where both the superior caval vein and the inferior caval vein are connected to the pulmonary circulation through separate connections that are either direct connections or tubular pathways. A fenestration of a Fontan is defined as a communication that is created to allow flow of blood between the systemic and pulmonary venous chambers.

1000 Fontan, TCPC, External conduit, Fenestrated

1010 Fontan, TCPC, External conduit, Nonfenestrated

2780 Fontan, TCPC, Intra/extracardiac conduit, Fenestrated

2790	Fontan, TCPC, Intra/extracardiac conduit, Nonfenestrated	The TCPC with Intra/extracardiac conduit is a TCPC type of Fontan operation created with a tube where the tube is attached to the inferior caval vein inside of the heart, and then the tube passes outside of the heart and is attached to the pulmonary artery outside of the heart. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart. A "TCPC" is a Fontan where both the superior caval vein and the inferior caval vein are connected to the pulmonary circulation through separate connections that are either direct connections or tubular pathways. A fenestration of a Fontan is defined as a communication that is created to allow flow of blood between the systemic and pulmonary venous chambers.
1025	Fontan revision or conversion (Re-do Fontan)	"Fontan revision or conversion (Re-do Fontan)" is defined as an operation where a previously created Fontan circuit is either modified or taken down and changed into a different type of Fontan. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart. A "TCPC" is a Fontan where both the superior caval vein and the inferior caval vein are connected to the pulmonary circulation through separate connections that are either direct connections or tubular pathways.
1030	Fontan, Other	Other Fontan procedure not specified in procedure codes. May include takedown of a Fontan procedure. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart.
2340	Fontan + Atrioventricular valvuloplasty	"Fontan + Atrioventricular valvuloplasty" is defined as an operation to repair the systemic atrioventricular valve combined with a Fontan operation. Please also code the type of Fontan operation performed as the second procedure of this operation. "The Fontan" is defined as an operation or intervention that results in caval flow from both the upper and lower body draining to the pulmonary circulation in a patient with a functionally univentricular heart.
1035	Ventricular septation	Creation of a prosthetic ventricular septum. Surgical procedure used to septate univentricular hearts with two atrioventricular valves. Additional procedures, such as resection of subpulmonic stenosis, should be listed separately.
1050	Congenitally corrected TGA repair, Atrial switch and ASO (double switch)	Repair of congenitally corrected TGA by concomitant atrial switch (Mustard or Senning) and arterial switch operation. VSD closure is usually performed as well;

			this should be coded separately.
]	1060	Congenitally corrected TGA repair, Atrial switch and Rastelli	Repair of congenitally corrected TGA by concomitant atrial switch (Mustard or Senning) and VSD closure to the aortic valve with placement of an RV-to-PA conduit.
]	1070	Congenitally corrected TGA repair, VSD closure	Repair of congenitally corrected TGA by VSD closure only.
]	1080	Congenitally corrected TGA repair, VSD closure and LV to PA conduit	Repair of congenitally corrected TGA by VSD closure and placement of an LV-to-PA conduit.
]	1090	Congenitally corrected TGA repair, Other	Any procedures for correction of CCTGA not otherwise specified in other listed procedure codes.
1	1110	Arterial switch operation (ASO)	Arterial switch operation is used for repair of transposition of the great arteries (TGA). The pulmonary artery and aorta are transected and translocated so that the pulmonary artery arises from the right ventricle and the aorta from the left ventricle. Coronary artery transfer is also accomplished.
	1120	Arterial switch operation (ASO) and VSD repair	Arterial switch operation is used for repair of transposition of the great arteries (TGA). The pulmonary artery and aorta are transected and translocated so that the pulmonary artery arises from the right ventricle and the aorta from the left ventricle. Coronary artery transfer is also accomplished. The VSD is closed, usually with a patch.
	1123	Arterial switch procedure + Aortic arch repair	Concomitant arterial switch operation and repair of the aortic arch in patients with transposition of the great arteries with intact ventricular septum and associated coarctation of the aorta or interrupted aortic arch.
	1125	Arterial switch procedure and VSD repair + Aortic arch repair	Concomitant arterial switch operation with VSD closure and repair of aortic arch in patients with transposition of the great arteries with VSD and associated coarctation of the aorta or interrupted aortic arch.
]	1130	Senning	Atrial baffle procedure for rerouting of venous flow in TGA resulting in a "physiological repair". The caval flow is directed behind the baffle to the mitral valve, left ventricle and pulmonary artery while the pulmonary venous flow is directed in front of the baffle to the tricuspid valve, right ventricle, and aorta. The Senning procedure uses atrial wall to construct the baffle.
	1140	Mustard	Atrial baffle procedure for rerouting of venous flow in TGA resulting in a "physiological repair". The caval flow is directed behind the baffle to the mitral valve, left ventricle and pulmonary artery while pulmonary venous flow is directed in front of the baffle to the tricuspid valve, right ventricle, and aorta. The Mustard procedure uses patch material to construct the baffle.
	1145	Atrial baffle procedure, Mustard or Senning revision	Revision of a previous atrial baffle procedure (either Mustard or Senning), for any reason (e.g., obstruction, baffle leak).

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1150	Rastelli	Most often used for patients with TGA-VSD and significant LVOTO, the Rastelli operation consists of an LV-to-aorta intraventricular baffle closure of the VSD and placement of an RV-to-PA conduit.
1160	REV	The Lecompte (REV) intraventricular repair is designed for patients with abnormalities of ventriculoarterial connection in whom a standard intraventricular tunnel repair cannot be performed. It is also suitable for patients in whom an arterial switch procedure with tunneling of the VSD to the pulmonary artery cannot be performed because of pulmonary (left ventricular outflow tract) stenosis. A right ventriculotomy incision is made. The infundibular (conal) septum, located between the two semilunar valves, is aggressively resected if its presence interferes with the construction of a tunnel from the VSD to the aorta. The VSD is then tunneled to the aorta. The decision to perform or not to perform the Lecompte maneuver should be made at the beginning of the operation. If the Lecompte maneuver is not performed the pulmonary artery is translocated to the right ventricular outflow tract on the side of the aorta that provides the shortest route. (When the decision to perform the Lecompte maneuver has been made, the great vessels are transected and this maneuver is performed at the beginning of the operation.) The pulmonary artery orifice is then closed. The aorta, if it had been transected during the performance of the Lecompte maneuver, is then reconstructed. A vertical incision is made on the anterior aspect of the main pulmonary artery. The posterior margin of the operor appeard of the operation appet of the vertical right ventriculotomy incision. A generous patch of autologous pericardium is used to close the inferior portion of the right ventriculotomy and the anterior portion of the pulmonary artery. A monocusp pericardial valve is inserted extemporaneously.
2190	Aortic root translocation over left ventricle (Including Nikaidoh procedure)	
2210	TGA, Other procedures (Kawashima, LV-PA conduit, other)	
1180	DORV, Intraventricular tunnel repair	Repair of DORV using a tunnel closure of the VSD to the aortic valve. This also includes the posterior straight tunnel repair of Kawashima
1200	DOLV repair	Because of the morphologic variability of DOLV, there are many approaches to repair, including: intraventricular tunnel repair directing the VSD to the pulmonary valve, the REV procedure, or the Rastelli procedure. In the case of DOLV use this code for tunnel closure to the pulmonary valve. If the REV or Rastelli procedures are performed then use those respective

		codes.
1210	Coarctation repair, End to end	Repair of coarctation of aorta by excision of the coarctation segment and end-to-end circumferential anastomosis of the aorta.
1220	Coarctation repair, End to end, Extended	Repair of coarctation of the aorta by excision of the coarctation segment and end-to-end anastomosis of the oblique ends of the aorta, creating an extended anastomosis.
1230	Coarctation repair, Subclavian flap	Repair of coarctation of the aorta by ligating, dividing, and opening the subclavian artery, incising the coarctation site, and folding down the subclavian artery onto the incision in the aorta, suturing the subclavian "flap" in place, creating a roof over the area of the previous coarctation.
1240	Coarctation repair, Patch aortoplasty	Repair of coarctation of the aorta by incising the coarctation site with placement of a patch sutured in place longitudinally along the aortotomy edge.
1250	Coarctation repair, Interposition graft	Repair of coarctation of the aorta by resection of the coarctation segment and placement of a prosthetic tubular interposition graft anastomosed circumferentially to the cut ends of the aorta.
1260	Coarctation repair, Other	Any repair of coarctation not specified in procedure codes. This may include, for example, a combination of two approaches for coarctation repair or extra-anatomic bypass graft, etc.
1275	Coarctation repair + VSD repair	Coarctation of aorta repair, any technique, and simultaneous VSD repair, any type VSD, any type repair.
1280	Aortic arch repair	Aortic arch repair, any technique.
1285	Aortic arch repair + VSD repair	Aortic arch repair, any technique, and simultaneous VSD repair, any type VSD, any type repair. This includes repair of IAA with VSD.
1290	Coronary artery fistula ligation	Coronary artery fistula repair using any technique. If additional technique information may be supplied by another procedure code, please list separately (e.g., bypass graft).
1291	Anomalous origin of coronary artery from pulmonary artery repair	Repair of anomalous origin of the coronary artery (any) from the pulmonary artery, by any technique (ligation, translocation with aortic implantation, Takeuchi operation, or bypass graft). If additional technique information may be supplied by another procedure code, please list separately (for example, bypass graft).
1300	Coronary artery bypass	Coronary artery bypass graft procedure, any technique (with or without CPB, venous or arterial graft, one or more grafts, etc.), for any coronary artery pathology (coronary arterial fistula, aneurysm, coronary bridging, atresia of left main, acquired coronary artery disease,

etc.).

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1305	Anomalous aortic origin of coronary artery from aorta (AAOCA) repair	
1310	Coronary artery procedure, Other	Any coronary artery procedure not specifically listed.
1320	Interrupted aortic arch repair	Repair of interrupted aortic arch (any type) by any technique (direct anastomosis, prosthetic graft, etc.). Does not include repair of IAA-VSD.
1330	PDA closure, Surgical	Closure of a PDA by any surgical technique (ligation, division, clip) using any approach (i.e., thoracotomy, thoracoscopic, etc.).
1340	PDA closure, Device	Closure of a PDA by device using transcatheter techniques.
1360	Vascular ring repair	Repair of vascular ring (any type, except pulmonary artery sling) by any technique.
1365	Aortopexy	Surgical fixation of the aorta to another structure (usually the posterior aspect of the sternum) to relieve compression on another vessel or structure (e.g., trachea).
1370	Pulmonary artery sling repair	Pulmonary artery sling repair by any technique.
1380	Aortic aneurysm repair	Aortic aneurysm repair by any technique.
1390	Aortic dissection repair	Aortic dissection repair by any technique.
1400	Lung biopsy	Lung biopsy, any technique.
1410	Transplant, lung(s)	Lung or lobe transplantation of any type.
1420	Lung procedure, Other	Included in this procedure code would be any lung procedure other than transplant, such as, but not limited to: pneumonectomy (left or right), lobectomy (any lobe), bilobectomy (two lobes), segmental lung resection (any segment), or wedge resection.
1440	Tracheal procedure	Any tracheal procedure, including but not limited to relief of tracheal stenosis (any means including pericardial graft, autograft insertion, homograft insertion, resection with reanastomosis, rib cartilage insertion, or slide tracheoplasty). Tracheal stent placement or balloon dilation should be coded separately.
2800	Muscle flap, Trunk (i.e. intercostal, pectus, or serratus muscle)	A trunk muscle flap (intercostal, pectus, or serratus muscle) is rotated to buttress or augment a suture line, anastomosis or fill the pleural space.
2810	Muscle flap, Trunk (i.e. latissimus dorsi)	A trunk muscle flap (latissimus dorsi) is rotated to buttress or augment a suture line, anastomosis or fill the pleural space.
2820	Removal, Sternal wire	Excision of wire used to approximate sternum, previous sternotomy
2830	Rib excision, Complete	Complete excision of rib(s)
2840	Rib excision, Partial	Partial excision of rib(s)

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2850	Sternal fracture - open treatment	Repair of a sternal fracture with sutures, wires, plates or bars.
2860	Sternal resection, Radical resection of sternum	Involves removal of the sternum with complex reconstructive requirements for either a tumor or severe sternal infection.
2870	Sternal resection, Radical resection of sternum with mediastinal lymphadenectomy	Involves resection of the sternum and mediastinal lymph node dissection.
2880	Tumor of chest wall - Excision including ribs	Excision of ribs and attached muscles for a benign or malignant tumor of the chest wall. When three or less ribs are taken or if the defect is covered by the scapula, reconstruction may not be necessary.
2890	Tumor of chest wall - Excision including ribs, With reconstruction	Resection of the chest wall tumor with reconstruction of the defect, usually with plastic mesh (marlex, prolene), methylmethracralate/mesh sandwich or a muscle flap.
2900	Tumor of soft tissue of thorax - Excision of deep subfascial or intramuscular tumor	Excision of a deep chest wall tumor that involves the muscles but not the ribs. These would usually be benign tumors such as a fibroma or a deep lipoma.
2910	Tumor of soft tissue of thorax - Excision of subcutaneous tumor	Excision of tumor in the skin/fat of the chest wall-typically a lipoma.
2920	Tumor of soft tissue of thorax - Radical resection	En-bloc, radical excision of a cancer of the chest wall muscles, involving the skin, fat and muscles. Typically it would be a desmoid tumor or a sarcoma malignant fibrous histiocytoma, rhabdomyosarcoma.
2930	Hyoid myotomy and suspension	Typically done as a suprahyoid laryngeal release to reduce tension on a cervical tracheal resection anastomosis. The hyoid bone is cut laterally on both sides to allow it to drop down and thus lower the larynx and trachea.
2940	Muscle flap, Neck	A neck muscle flap is rotated to buttress or augment a suture line, anastomosis or fill a space. Commonly used neck muscles are strap muscles, sternocleidomastoid muscle, levator scapulae.
2950	Procedure on neck	Unlisted procedure of the neck
2960	Tumor of soft tissue of neck - Excision of deep subfascial or intramuscular tumor	Excision of a tumor that involves the muscles of the neck. These would usually be benign tumors such as a fibroma or a deep lipoma.
2970	Tumor of soft tissue of neck - Excision of subcutaneous tumor	Excision of a tumor in the skin/fat of the neck-typically a lipoma.
2980	Tumor of soft tissue of neck - Radical resection	A surgical procedure in which the fibrofatty contents of the neck are removed for the treatment of cervical lymphatic metastases. Neck dissection is most commonly used in the management of cancers of the upper aerodigestive tract. It is also used for malignancies of the skin of the head and neck area, the

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		thyroid, and the salivary glands.
2990	Pectus bar removal	Removal of a previously implanted chest wall bar
3000	Pectus bar repositioning	Repositioning of a previously implanted chest wall bar
3010	Pectus repair, Minimally invasive repair (Nuss), With thoracoscopy	Placement of a Nuss transverse chest wall bar to push the sternum forward to repair a pectus deformity, with thoracoscopy
3020	Pectus repair, Minimally invasive repair (Nuss), Without thoracoscopy	Placement of a Nuss transverse chest wall bar to push the sternum forward to repair a pectus deformity, without thoracoscopy
3030	Pectus repair, Open repair	Resection of several costal cartilages, a partial osteotomy of the sternum, and often placement of a temporary bar for stabilization of pectus chest wall deformity
3040	Division of scalenus anticus, With resection of a cervical rib	Repair of Thoracic Outlet Syndrome variant where the scalenus anticus muscle or a band from it impinges on the brachial plexus along with resection of the abnormal cervical rib
3050	Division of scalenus anticus, Without resection of a cervical rib	Repair of Thoracic Outlet Syndrome variant where the scalenus anticus muscle or a band from it impinges on the brachial plexus along without resection of the abnormal cervical rib
3060	Rib excision, Excision of cervical rib	Removal of the first rib or a cervical rib for treatment of Thoracic Outlet Syndrome
3070	Rib excision, Excision of cervical rib, With sympathectomy	Removal of the first rib or a cervical rib and sympathectomy for treatment of Thoracic Outlet Syndrome
3080	Rib excision, Excision of first rib	Removal of the first rib
3090	Rib excision, Excision of first rib, With sympathectomy	Removal of the first rib and sympathectomy
3100	Procedure on thorax	Unlisted procedure on thorax
1450	Pacemaker implantation, Permanent	Implantation of a permanent pacemaker of any type (e.g., single-chamber, dual-chamber, atrial antitachycardia), with any lead configuration or type (atrial, ventricular, atrial and ventricular, transvenous, epicardial, transmural), by any technique (sternotomy, thoracotomy etc.).
1460	Pacemaker procedure	Any revision to a previously placed pacemaker system including revisions to leads, generators, pacemaker pockets. This may include explantation of pacemakers or leads as well.
2350	Explantation of pacing system	Removal of pacemaker generator and wires
1470	ICD (AICD) implantation	Implantation of an (automatic) implantable cardioverter defibrillator system.
1480	ICD (AICD) ([automatic] implantable cardioverter defibrillator) procedure	Any revision to a previously placed AICD including revisions to leads, pads, generators, pockets. This may include explantation procedures as well.

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1490	Arrhythmia surgery - atrial, Surgical Ablation	Surgical ablation (any type) of any atrial arrhythmia.
1500	Arrhythmia surgery - ventricular, Surgical Ablation	Surgical ablation (any type) of any ventricular arrhythmia.
2500	Cardiovascular catheterization procedure, Diagnostic	Invasive diagnostic procedure involving the heart and great vessels
2520	Cardiovascular catheterization procedure, Diagnostic, Angiographic data obtained	Invasive diagnostic procedure involving the heart and great vessels using angiography
2550	Cardiovascular catheterization procedure, Diagnostic, Electrophysiology alteration	
2540	Cardiovascular catheterization procedure, Diagnostic, Hemodynamic alteration	Invasive diagnostic procedure involving pressure or flow alteration in the cardiovascular system
2510	Cardiovascular catheterization procedure, Diagnostic, Hemodynamic data obtained	Invasive diagnostic procedure involving pressure and flow assessment of the heart and great vessels
2530	Cardiovascular catheterization procedure, Diagnostic, Transluminal test occlusion	
2410	Cardiovascular catheterization procedure, Therapeutic	Invasive therapeutic procedure involving the heart and great vessels
2670	Cardiovascular catheterization procedure, Therapeutic, Adjunctive therapy	
1540	Cardiovascular catheterization procedure, Therapeutic, Balloon dilation	Invasive therapeutic procedure involving balloon dilation of a cardiovascular structure
2590	Cardiovascular catheterization procedure, Therapeutic, Balloon valvotomy	Invasive therapeutic procedure involving balloon dilation of a valve
1580	Cardiovascular catheterization procedure, Therapeutic, Coil implantation	Invasive therapeutic procedure involving implantation of a coil
1560	Cardiovascular catheterization procedure, Therapeutic, Device implantation	Invasive therapeutic procedure involving implantation of a device

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3110	Cardiovascular catheterization procedure, Therapeutic, Device implantation attempted	Invasive therapeutic procedure involving attempted but unsuccessful implantation of a device
2690	Cardiovascular catheterization procedure, Therapeutic, Electrophysiological ablation.	Invasive therapeutic procedure involving Catheter based creation of lesions in the heart with radiofrequency energy, cryotherapy, or ultrasound energy to cure or control arrhythmias
3120	Cardiovascular catheterization procedure, Therapeutic, Intravascular foreign body removal	Invasive therapeutic procedure involving removal of an intravascular foreign body
2640	Cardiovascular catheterization procedure, Therapeutic, Perforation (establishing interchamber and/or intervessel communication)	Invasive therapeutic procedure establishing interchamber and/or intervessel communication
2580	Cardiovascular catheterization procedure, Therapeutic, Septostomy	Invasive therapeutic procedure establishing an intracardiac septal communication
1550	Cardiovascular catheterization procedure, Therapeutic, Stent insertion	Invasive therapeutic procedure involving implantation of a stent
2630	Cardiovascular catheterization procedure, Therapeutic, Stent re-dilation	Invasive therapeutic procedure involving dilation of a previously implanted stent
2650	Cardiovascular catheterization procedure, Therapeutic, Transcatheter Fontan completion	
2660	Cardiovascular catheterization procedure, Therapeutic, Transcatheter implantation of valve	Invasive therapeutic procedure involving deployment/ implantation of a valve
1590	Shunt, Systemic to pulmonary, Modified Blalock- Taussig Shunt (MBTS)	Placement of a tube graft from a branch of the aortic arch to the pulmonary artery with or without bypass, from any approach (thoracotomy, sternotomy).
1600	Shunt, Systemic to pulmonary, Central (shunt from aorta)	A direct anastomosis or placement of a tube graft from the aorta to the pulmonary artery with or without bypass, from any approach (thoracotomy, sternotomy).
3130	Shunt, Systemic to pulmonary, Central (shunt from aorta), Central shunt with an end-to-side connection between the transected main pulmonary artery and the side of the ascending aorta (i.e. Mee	Creation of a central shunt with an end-to-side connection between the transected main pulmonary artery and the side of the ascending aorta

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	shunt)	
1610	Shunt, Systemic to pulmonary, Other	Placement of any other systemic-to-pulmonary artery shunt, with or without bypass, from any approach (thoracotomy, sternotomy) that is not otherwise coded. Includes classic Blalock-Taussig systemic-to-pulmonary artery shunt.
1630	Shunt, Ligation and takedown	Takedown of any shunt.
2095	Shunt, Reoperation	Revision or replacement of a previously created shunt
1640	PA banding (PAB)	Placement of a pulmonary artery band, any type.
1650	PA debanding	Debanding of pulmonary artery. Please list separately any pulmonary artery reconstruction required.
1660	Damus-Kaye-Stansel procedure (DKS) (creation of AP anastomosis without arch reconstruction)	In the Damus-Kaye-Stansel procedure the proximal transected main pulmonary artery is connected by varying techniques to the aorta.
1670	Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn)	Superior vena cava to pulmonary artery anastomosis allowing flow to both pulmonary arteries with an end-to- side superior vena-to-pulmonary artery anastomosis.
1680	Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn)	Superior vena cava to ipsilateral pulmonary artery anastomosis (i.e., LSVC to LPA, RSVC to RPA).
1690	Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn)	Bilateral superior vena cava-to-pulmonary artery anastomoses (requires bilateral SVCs).
1700	HemiFontan	A HemiFontan is an operation that includes a bidirectional superior vena cava (SVC)-to-pulmonary artery anastomosis and the connection of this "SVC- pulmonary artery amalgamation" to the atrium, with a "dam" between this "SVC-pulmonary artery amalgamation" and the atrium. This operation can be accomplished with a variety of operative strategies including the following two techniques and other techniques that combine elements of both of these approaches: (1) Augmenting both branch pulmonary arteries with a patch and suturing the augmented branch pulmonary arteries to an incision in the medial aspect of the superior vena cava. (With this approach, the pulmonary artery patch forms a roof over the SVC-to- pulmonary artery anastomosis and also forms a "dam" between the SVC-pulmonary artery amalgamation and the right atrium.) (2) Anastomosing both ends of the divided SVC to incisions in the top and bottom of the right pulmonary artery, and using a separate patch to close junction of the SVC and the right atrium.

2330 Superior cavopulmonary anastomosis(es) (Glenn or HemiFontan) + Atrioventricular valvuloplasty

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2130	Superior Cavopulmonary anastomosis(es) + PA reconstruction	
3140	Hepatic vein to azygous vein connection, Direct	
3150	Hepatic vein to azygous vein connection, Interposition graft	
3160	Kawashima operation (superior cavopulmonary connection in setting of interrupted IVC with azygous continuation)	
1710	Palliation, Other	Any other palliative procedure not specifically listed.
2360	ECMO cannulation	Insertion of cannulas for extracorporeal membrane oxygenation
2370	ECMO decannulation	Removal of cannulas for extracorporeal membrane oxygenation
1910	ECMO procedure	Any ECMO procedure (cannulation, decannulation, etc.).
1900	Intraaortic balloon pump (IABP) insertion	Insertion of intraaortic balloon pump by any technique.
1920	Right/left heart assist device procedure	Any right, left, or biventricular assist device procedure (placement, removal etc.).
2390	VAD explantation	Removal of ventricular assist device
2380	VAD implantation	Insertion of a ventricular assist device
3170	VAD change out	Removal of previously inserted ventricular assist device and insertion of a new device
2420	Echocardiography procedure, Sedated transesophageal echocardiogram	Procedural sedation for echocardiogram
2430	Echocardiography procedure, Sedated transthoracic echocardiogram	Procedural sedation for echocardiogram, transthoracic
2435	Non-cardiovascular, Non- thoracic procedure on cardiac patient with cardiac anesthesia	Anesthesia provided by cardiac anesthesiologist for patient with congenital heart disease undergoing a non- cardiovascular, non-thoracic procedure
2440	Radiology procedure on cardiac patient, Cardiac Computerized Axial Tomography (CT Scan)	A patient with congenital heart disease undergoing cardiac CT scan
2450	Radiology procedure on cardiac patient, Cardiac Magnetic Resonance Imaging (MRI)	A patient with congenital heart disease undergoing cardiac MRI
2460	Radiology procedure on cardiac patient, Diagnostic	A patient with congenital heart disease undergoing a diagnostic radiology procedure

	radiology	
2470	Radiology procedure on cardiac patient, Non-Cardiac Computerized Tomography (CT) on cardiac patient	A patient with congenital heart disease undergoing a non-cardiac CT scan
2480	Radiology procedure on cardiac patient, Non-cardiac Magnetic Resonance Imaging (MRI) on cardiac patient	A patient with congenital heart disease undergoing non- cardiac MRI
2490	Radiology procedure on cardiac patient, Therapeutic radiology	A patient with congenital heart disease undergoing a therapeutic radiology procedure
1720	Aneurysm, Ventricular, Right, Repair	Repair of right ventricular aneurysm, any technique.
1730	Aneurysm, Ventricular, Left, Repair	Repair of left ventricular aneurysm, any technique.
1740	Aneurysm, Pulmonary artery, Repair	Repair of pulmonary artery aneurysm, any technique.
1760	Cardiac tumor resection	Resection of cardiac tumor, any type.
1780	Pulmonary AV fistula repair/occlusion	Repair or occlusion of a pulmonary arteriovenous fistula.
1790	Ligation, Pulmonary artery	Ligation or division of the pulmonary artery. Most often performed as a secondary procedure.
1802	Pulmonary embolectomy, Acute pulmonary embolus	Acute pulmonary embolism (clot) removal, through catheter or surgery.
1804	Pulmonary embolectomy, Chronic pulmonary embolus	Chronic pulmonary embolism (clot) removal, through catheter or surgery.
1810	Pleural drainage procedure	Pleural drainage procedure via thoracocentesis, tube thoracostomy, or open surgical drainage.
1820	Pleural procedure, Other	Other pleural procedures not specifically listed; may include pleurodesis (mechanical, talc, antibiotic or other), among others.
1830	Ligation, Thoracic duct	Ligation of the thoracic duct; most commonly for persistent chylothorax.
1840	Decortication	Decortication of the lung by any technique.
1850	Esophageal procedure	Any procedure performed on the esophagus.
1860	Mediastinal procedure	Any non-cardiovascular mediastinal procedure not otherwise listed.
1870	Bronchoscopy	Bronchoscopy, rigid or flexible, for diagnostic, biopsy, or treatment purposes (laser, stent, dilation, lavage).
1880	Diaphragm plication	Plication of the diaphragm; most often for diaphragm paralysis due to phrenic nerve injury.
1890	Diaphragm procedure, Other	Any diaphragm procedure not specifically listed.
1930	VATS (video-assisted thoracoscopic surgery)	Video-assisted thoracoscopic surgery utilized; this code should be used in addition to the specific procedure

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		code (e.g., if PDA ligated using VATS technique, PDA ligation should be primary procedure, VATS should be secondary procedure).
1940	Minimally invasive procedure	Any procedure using minimally invasive technique; this code should be used in addition to the specific procedure code (e.g., if ASD closed using minimally invasive technique, ASD repair should be primary procedure, minimally invasive procedure should be listed additionally).
1950	Bypass for noncardiac lesion	Use of cardiopulmonary bypass for noncardiac lesion; this code may be used in addition to the specific procedure code if one is available (e.g., tracheal procedures may be done using CPB - the tracheal procedure should be the primary procedure and use of cardiopulmonary bypass for noncardiac lesion should be listed additionally).
1960	Delayed sternal closure	Sternal closure effected after patient has left operating room with sternum open, either because of swelling or electively after complex heart procedures. This procedure should be operative type No CPB Cardiovascular.
1970	Mediastinal exploration	Mediastinal exploration, most often for postoperative control of bleeding or tamponade, but may be exploration to assess mediastinal mass, etc.
1980	Sternotomy wound drainage	Drainage of the sternotomy wound.
3180	Intravascular stent removal	Removal of a previously placed intravascular stent
1990	Thoracotomy, Other	Any procedure performed through a thoracotomy incision not otherwise listed.
2000	Cardiotomy, Other	Any procedure involving an incision in the heart that is not otherwise listed.
2010	Cardiac procedure, Other	Any cardiac procedure, bypass or non-bypass, that is not otherwise listed.
2020	Thoracic and/or mediastinal procedure, Other	Any thoracic and/or mediastinal procedure not otherwise listed.
2030	Peripheral vascular procedure, Other	Any peripheral vascular procedure; may include procedures such as femoral artery repair, iliac artery repair, etc.
2040	Miscellaneous procedure, Other	Any miscellaneous procedure not otherwise listed.
2050	Organ procurement	Procurement of an organ for transplant (most likely, heart, lungs, or heart and lungs).
7777	Other procedure	Any procedure on any organ system not otherwise listed.
7800	Operation canceled before skin incision	Surgical procedure canceled after patient enters the operating room but prior to skin incision
7810	Operation aborted after skin incision	Surgical procedure canceled after skin incision made

STS Adult Cardiac Surgery Database		Version:	2.81
Long Name: Other Non Card-Caro Endart		SeqNo:	4530
Short Name: ONCCarEn		Core:	Ye
Section Name: Other Non-Cardiac Procedures		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether the patient underwein percutaneous/surgical placement of car	-	l of stenotic atheromatous plaque or junction with the primary surgical proceed	dure.
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Other Non Card	Format:	Text (categorical values specified by S	TS)
ParentShortName: OpONCard	DataLength:		
ParentValue: = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
3 Yes, planned			
4 Yes, unplanned due to surgical complication			
5 Yes, unplanned due to unsuspected disease or anatomy			
2 No			
Long Name: Other Non Card-Other Vasc		SeqNo:	4535
Short Name: ONCOVasc		Core:	Yes
Section Name: Other Non-Cardiac Procedures		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether patient had procedure conjunction with the primary surgical		eral vascular disease or condition in	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Other Non Card	Format:	Text (categorical values specified by S'	TS)
ParentShortName: OpONCard	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
3 Yes, planned			
4 Yes, unplanned due to surgical complication			

STS Adult Cardiac Surgery Database

 5 Yes, unplanned due to unsuspected disease or anatomy 2 No 				
Long Name: Other Non Card-Other Thor			SeqNo:	4540
Short Name: ONCOThor			Core:	Yes
Section Name: Other Non-Cardiac Procedures			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate whether patient underwent proce primary surgical procedure. This include mediastinal mass and/or lung dissection.				
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Other Non Card	Format:	Text (categorical values	specified by	STS)
ParentShortName: OpONCard	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
3 Yes, planned				
4 Yes, unplanned due to surgical complication				
5 Yes, unplanned due to unsuspected disease or anatomy				

STS Adult Cardiac Surgery Database		Version	: 2.81
Long Name: Other Non Card-Other		SeqNo:	4545
Short Name: ONCOther		Core:	Yes
Section Name: Other Non-Cardiac Procedures		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether the patient had any oth primary surgical procedure that is not in			th the
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Other Non Card	Format:	Text (categorical values specified by S	STS)
ParentShortName: OpONCard	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
3 Yes, planned			
4 Yes, unplanned due to surgical complication			
5 Yes, unplanned due to unsuspected disease or anatomy			
2 No			
Long Name: Postoperative Peak Glucose		SeqNo:	4550
Short Name: PostOpPeakGlu		Core:	Yes
Section Name: Postoperative		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the postoperative peak glucose	measured withi	n 18-24 hours of anesthesia end time.	
LowValue: 30 UsualRangeLow:			
HighValue: 1500 UsualRangeHigh:			
Parent Long Name:	Format:	Integer	

DataLength:

Data Source: User

ParentValue:

ParentShortName:

ParentHarvestCodes:

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Postoperative Creatinine Leve	<i>SeqNo:</i> 4555
Short Name: PostCreat	Core: Yes
Section Name: Postoperative	Harvest: Yes
DBTableName AdultData	
Definition: Indicate the postoperative Creat	nine level. If more than one level is obtained, code the highest level.
LowValue: 0.1 UsualRangeLow: 0	l
HighValue: 30.0 UsualRangeHigh: 9)
Parent Long Name:	Format: Real
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Long Name: Blood Prod	SeqNo: 4560
Short Name: BldProd	Core: Yes
Section Name: Postoperative	Harvest: Yes
DBTableName AdultData	
defined as any blood started after	were transfused any time postoperatively. Postoperatively is the initial surgery. Include blood transfused after the initial sfused during a reoperative surgery.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Harvest Codes:	
Code: Value:	
1 Yes	

STS Adult Cardiac Surgery Database		Versior	า: 2.81
Long Name: Blood Prod - RBC Units		SeqNo:	4565
Short Name: BdRBCU		Core:	Yes
Section Name: Postoperative		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the number of units of packet	ed red blood cells that were tr	ansfused any time postopera	atively.
Do not include autologous, cell-save	r or chest tube recirculated bl	ood.	
LowValue: 0 UsualRangeLow: 0			
HighValue: 99 UsualRangeHigh: 10			
Parent Long Name: Blood Prod	Format: Integer		
ParentShortName: BldProd	DataLength:		
ParentValue: = "Yes"	Data Source: User		
ParentHarvestCodes: 1			
Long Name: Blood Prod - FFP Units		SeqNo:	4570
Short Name: BdFFPU		Core:	Yes
Section Name: Postoperative		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the number of units of fresh	frozen plasma that were trans	sfused any time postoperativ	vely.
LowValue: 0 UsualRangeLow: 0			
HighValue: 99 UsualRangeHigh: 10			
Parent Long Name: Blood Prod	Format: Integer		
ParentShortName: BldProd	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source: User		

Short Name: BdCryoU	SeqNo: Core: arvest: 7. One bag of	Yes
Section Name: Postoperative Ha DBTableName AdultData Definition: Indicate the number of units of cryoprecipitate that were transfused postoperatively cryo = one unit. The number of units is not volume dependent. LowValue: 0 UsualRangeLow: 0	arvest:	Yes Yes
DBTableName AdultData Definition: Indicate the number of units of cryoprecipitate that were transfused postoperatively cryo = one unit. The number of units is not volume dependent. LowValue: 0 UsualRangeLow: 0		
Definition: Indicate the number of units of cryoprecipitate that were transfused postoperatively cryo = one unit. The number of units is not volume dependent. LowValue: 0 UsualRangeLow: 0	. One bag of	f
cryo = one unit. The number of units is not volume dependent.LowValue:0UsualRangeLow:0	. One bag of	f
HighValue: 99 UsualRangeHigh: 10		
Parent Long Name: Blood Prod Format: Integer		
ParentShortName: BldProd DataLength:		
ParentValue: = "Yes" Data Source: User		
ParentHarvestCodes: 1		

Long Name:	Blood Prod - Platelet Units			SeqNo:	4580
Short Name:	BdPlatU			Core:	Yes
Section Name	: Postoperative			Harvest:	Yes
DBTableNam	e AdultData				
-	Indicate the number of units of platelets one unit. A dose pack may consist of 4, number of units coded is not volume dep	6, 8, 10, or any		-	
LowValue:	0 UsualRangeLow:				
HighValue:	99 UsualRangeHigh:				
Parent Long	Name: Blood Prod	Format:	Integer		
ParentShortN	ame: BldProd	DataLength:			
ParentValue:	= "Yes"	Data Source:	User		
ParentHarves	tCodes: 1				

STS Adult Cardiac Surgery Database		Version:	2.81
Long Name: Extubated In OR		SeqNo:	4585
Short Name: ExtubOR		Core:	Yes
Section Name: Postoperative		Harvest:	Yes
DBTableName AdultData			
surgery.		ing the operating room during the initial	
If patient expires in the operating re-	oom during the initia	l surgery, answer "Yes".	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:	Format:	Text (categorical values specified by S	ΓS)
ParentShortName:	DataLength:		
ParentValue:	Data Source:	User	
ParentHarvestCodes:			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
Long Name: Re-intubated During Hospital Sta	ay	SeqNo:	4590
		Core:	Yes
Short Name: ReIntub			
Short Name: ReIntub Section Name: Postoperative		Harvest:	Yes
		Harvest:	Yes
Section Name: Postoperative DBTableName AdultData		hospital stay after the initial extubation.	Yes
Section Name: Postoperative DBTableName AdultData Definition: Indicate whether the patient was re This may include patients who have postoperative period.		hospital stay after the initial extubation.	Yes
Section Name: PostoperativeDBTableNameAdultDataDefinition:Indicate whether the patient was re This may include patients who have postoperative period.LowValue:UsualRangeLow:		hospital stay after the initial extubation.	Yes
Section Name: PostoperativeDBTableNameAdultDataDefinition:Indicate whether the patient was re This may include patients who have postoperative period.LowValue:UsualRangeLow:		hospital stay after the initial extubation.	
Section Name:PostoperativeDBTableNameAdultDataDefinition:Indicate whether the patient was re This may include patients who have postoperative period.LowValue:UsualRangeLow: UsualRangeHigh:	e been extubated in the been extubated in the been extubated in the been extubated in the been extended in the bee	hospital stay after the initial extubation. he OR and require intubation in the	
Section Name: Postoperative DBTableName AdultData Definition: Indicate whether the patient was rearing include patients who have postoperative period. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Value:	e been extubated in t	hospital stay after the initial extubation. he OR and require intubation in the Text (categorical values specified by S	
Section Name: Postoperative DBTableName AdultData Definition: Indicate whether the patient was rearrow include patients who have postoperative period. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: ParentShortName:	e been extubated in th Format: DataLength:	hospital stay after the initial extubation. he OR and require intubation in the Text (categorical values specified by S	
Section Name: Postoperative DBTableName AdultData Definition: Indicate whether the patient was reprive patients who have postoperative period. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: ParentShortName: ParentValue: Value:	e been extubated in th Format: DataLength:	hospital stay after the initial extubation. he OR and require intubation in the Text (categorical values specified by S	
Section Name: Postoperative DBTableName AdultData Definition: Indicate whether the patient was reprive patients who have postoperative period. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: ParentShortName: ParentValue: ParentHarvestCodes:	e been extubated in th Format: DataLength:	hospital stay after the initial extubation. he OR and require intubation in the Text (categorical values specified by S	
Section Name: Postoperative DBTableName AdultData Definition: Indicate whether the patient was rearing include patients who have postoperative period. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: ParentShortName: ParentValue: HarvestCodes: Harvest Codes: Harvest Codes:	e been extubated in th Format: DataLength:	hospital stay after the initial extubation. he OR and require intubation in the Text (categorical values specified by S	

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Additional Hours Ventilated			SeqNo:	4595
Short Name: VentHrsA			Core:	Yes
Section Name: Postoperative			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate how many additional hours the	patient was on	ventilator after initial	extubation.	
LowValue: 0.1 UsualRangeLow: 1.0				
HighValue: 5000.0 UsualRangeHigh: 168.0				
Parent Long Name: Re-intubated During Hospital Stay	Format:	Real		
ParentShortName: ReIntub	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source.	User		
ParentHarvestCodes: 1				
<i>Long Name:</i> Total Postoperative Ventilation Hour	·s		SeqNo:	4600
Short Name: VentHrsTot	0		Core:	Yes
Short Ivane. Vonumstor				105

Long Name:	Total P	ostoperative ventilation nours			Sequo:	4000
Short Name:	VentH	rsTot			Core:	Yes
Section Nam	e: Postope	erative			Harvest:	Yes
DBTableNar	me AdultI	Data				
Definition:	Calculate reintubati	d variable measuring OR exit ti on.	me to extubation	on time plus any addition	al hours due to)
LowValue:	0	UsualRangeLow:				
HighValue:	6000	UsualRangeHigh:				
Parent Long	Name:		Format:	Integer		
ParentShort	Name:		DataLength:			
ParentValue	2:		Data Source:	Calculated		
ParentHarve	estCodes:					

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: ICU Visit	<i>SeqNo:</i> 4605
Short Name: ICUVisit	Core: Yes
Section Name: Postoperative	Harvest: Yes
DBTableName AdultData	
	ICU level of care immediately following the initial surgery. overy, and other similar critical care environments.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Harvest Codes:	
<u>Code:</u> Value:	
<u> </u>	
2 No	
Long Name: Initial ICU hours	<i>SeqNo:</i> 4610
Short Name: ICUInHrs	<i>Core:</i> Yes
Section Name: Postoperative	Harvest: Yes
DBTableName AdultData	
surgery until the time of actual transfe other similar critical care environment For those sites providing postop ICU	level of care in one single stay unit (admission to ICU to nber of hours immediately following the initial surgery until a
LowValue: 0.1 UsualRangeLow: 1.0	
HighValue: 5000.0 UsualRangeHigh: 100.0	
Parent Long Name: ICU Visit	Format: Real
ParentShortName: ICUVisit	DataLength:
<i>ParentValue:</i> = "Yes"	Data Source: User
ParentHarvestCodes: 1	

STS Adult Cardiac S	urgery Database			Versior	1: 2.81
Long Name: Rea	dmission to ICU			SeqNo:	4615
Short Name: ICU	JReadm			Core:	Yes
Section Name: Pos	operative			Harvest:	Yes
DBTableName Ad	ultData				
(lower OR -> OR -> OR -> Single	te whether the patient spent time is level care). Specific situations ar ICU -> OR -> ICU = No ICU -> STEP DOWN -> ICU = STEP DOWN -> ICU = Yes care unit: ICU readmission when the level o	e described bele Yes	ow:	-	i unit
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name.		Format:	Text (categorical	values specified by	STS)
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentValue: ParentHarvestCode	s:	Data Source:	User		
		Data Source:	User		
ParentHarvestCode Harvest Cod		Data Source:	User		
ParentHarvestCode Harvest Cod	es:	Data Source:	User		
ParentHarvestCode Harvest Cod	es: le: <u>Value:</u>	Data Source:	User		
ParentHarvestCode Harvest Cod <u>Co</u>	es: le: <u>Value:</u> 1 Yes	Data Source:	User	SeqNo:	4620
ParentHarvestCode Harvest Cod <u>Co</u> Long Name: Add	es: <u>le: Value:</u> 1 Yes 2 No	Data Source:	· User	SeqNo: Core:	4620 Yes
ParentHarvestCode Harvest Cod <u>Co</u> Long Name: Add	es: <u>le: Value:</u> 1 Yes 2 No litional ICU Hours J AdHrs	Data Source:	User	-	
ParentHarvestCode Harvest Cod <u>Con</u> Long Name: Add Short Name: ICU	es: <u>le: Value:</u> 1 Yes 2 No litional ICU Hours JAdHrs toperative	Data Source:	User	Core:	Yes
ParentHarvestCode Harvest Cod <u>Con</u> Long Name: Add Short Name: ICU Section Name: Pos DBTableName Ad Definition: Indica	es: <u>le: Value:</u> 1 Yes 2 No litional ICU Hours J AdHrs toperative			Core: Harvest:	Yes Yes
ParentHarvestCode Harvest Cod <u>Con</u> Long Name: Add Short Name: ICU Section Name: Pos DBTableName Ad Definition: Indica	es: <u>le: Value:</u> 1 Yes 2 No litional ICU Hours JAdHrs toperative ultData te the number of additional hours			Core: Harvest:	Yes Yes
ParentHarvestCode Harvest Cod <u>Con</u> Long Name: Add Short Name: ICU Section Name: Pos DBTableName Ad Definition: Indica single	es: <u>le: Value:</u> 1 Yes 2 No litional ICU Hours JAdHrs toperative ultData te the number of additional hours stay units. UsualRangeLow: 1.0			Core: Harvest:	Yes Yes
ParentHarvestCode Harvest Code <u>Con</u> Long Name: Add Short Name: ICU Section Name: Pos DBTableName Ad Definition: Indica single LowValue: 0.1 HighValue: 5000.4	es: <u>le: Value:</u> 1 Yes 2 No litional ICU Hours JAdHrs toperative ultData te the number of additional hours stay units. UsualRangeLow: 1.0			Core: Harvest:	Yes Yes
ParentHarvestCode Harvest Code <u>Con</u> Long Name: Add Short Name: ICU Section Name: Pos DBTableName Ad Definition: Indica single LowValue: 0.1 HighValue: 5000.4	es: <u>le:</u> <u>Value:</u> 1 Yes 2 No litional ICU Hours JAdHrs toperative ultData te the number of additional hours stay units. <i>UsualRangeLow:</i> 1.0 0 <i>UsualRangeHigh:</i> 100.0 Readmission to ICU	spent in the IC	U, or at the equival	Core: Harvest:	Yes Yes
ParentHarvestCode Harvest Code <u>Con</u> Long Name: Add Short Name: ICU Section Name: Pos DBTableName Ad Definition: Indica single LowValue: 0.1 HighValue: 5000.4 Parent Long Name.	es: <u>le:</u> <u>Value:</u> 1 Yes 2 No litional ICU Hours JAdHrs toperative ultData te the number of additional hours stay units. <i>UsualRangeLow:</i> 1.0 0 <i>UsualRangeHigh:</i> 100.0 Readmission to ICU	spent in the IC	U, or at the equival Real	Core: Harvest:	Yes Yes

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Postop Echo		<i>SeqNo:</i> 4625
Short Name: POpTTEch		Core: Yes
Section Name: Postoperative		Harvest: Yes
DBTableName AdultData		
<i>Definition:</i> Indicate whether an echo was perform discharge.	ed postoperativel	y to evaluate valvular function prior to
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name:	Format:	Text (categorical values specified by STS)
ParentShortName:	DataLength:	
ParentValue:	Data Source:	User
ParentHarvestCodes:		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Section Name: Postoperative DBTableName AdultData		Harvest: Yes
DDTablename AdultDala		
Definition: Indicate the level of aortic insufficience		ound on post op echo closest to discharge.
<i>Definition:</i> Indicate the level of aortic insufficience Mild-to-moderate should be coded as a		ound on post op echo closest to discharge. ate to severe should be coded as severe.
Definition:Indicate the level of aortic insufficient Mild-to-moderate should be coded as a UsualRangeLow:		
<i>Definition:</i> Indicate the level of aortic insufficience Mild-to-moderate should be coded as a		
Definition:Indicate the level of aortic insufficient Mild-to-moderate should be coded as a LowValue:LowValue:UsualRangeLow: UsualRangeHigh:HighValue:UsualRangeHigh: 	moderate; moderate; <i>Format</i> :	ate to severe should be coded as severe.
Definition:Indicate the level of aortic insufficient Mild-to-moderate should be coded as a UsualRangeLow:LowValue:UsualRangeLow:HighValue:UsualRangeHigh:	moderate; modera	ate to severe should be coded as severe. Text (categorical values specified by STS)
Definition:Indicate the level of aortic insufficient Mild-to-moderate should be coded as a LowValue:LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Postop EchoParentShortName:POpTTEch	moderate; moderate; Format: DataLength:	ate to severe should be coded as severe. Text (categorical values specified by STS)
Definition:Indicate the level of aortic insufficient Mild-to-moderate should be coded as aLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Postop EchoParentShortName:POpTTEchParentValue:= "Yes"	moderate; moderate; Format: DataLength:	ate to severe should be coded as severe. Text (categorical values specified by STS)
Definition:Indicate the level of aortic insufficient Mild-to-moderate should be coded as aLowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Postop EchoParentShortName:POpTTEchParentValue:= "Yes"ParentHarvestCodes:1	moderate; moderate; Format: DataLength:	ate to severe should be coded as severe. Text (categorical values specified by STS)
Definition: Indicate the level of aortic insufficient Mild-to-moderate should be coded as a LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Postop Echo ParentShortName: POpTTEch ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes: 1	moderate; moderate; Format: DataLength:	ate to severe should be coded as severe. Text (categorical values specified by STS)
Definition: Indicate the level of aortic insufficient Mild-to-moderate should be coded as a Mild-to-moderate should be Mild-to-moderate sh	moderate; moderate; Format: DataLength:	ate to severe should be coded as severe. Text (categorical values specified by STS)
Definition: Indicate the level of aortic insufficient Mild-to-moderate should be coded as a Mild-to-moderate should be Mild-to-moderate sh	moderate; moderate; Format: DataLength:	ate to severe should be coded as severe. Text (categorical values specified by STS)
Definition: Indicate the level of aortic insufficient Mild-to-moderate should be coded as a LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Postop Echo ParentShortName: POpTTEch ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes: 1 Que: 1 None 2 Trace/trivial	moderate; moderate; Format: DataLength:	ate to severe should be coded as severe. Text (categorical values specified by STS)
Definition: Indicate the level of aortic insufficient Mild-to-moderate should be coded as a Mild-to-moderate should be Mild-to-moderate sh	moderate; moderate; Format: DataLength:	ate to severe should be coded as severe. Text (categorical values specified by STS)

STS Adult Care	diac Surgery Database	Version	: 2.81
Long Name:	Postop Echo Mitral Insufficiency	SeqNo:	4635
Short Name:	POpTTMR	Core:	Yes
Section Name	Postoperative	Harvest:	Yes

DBTableName AdultData

Definition: Indicate the highest level of mitral insufficiency/regurgitation found on post op echo closest to discharge. Mild-to-moderate should be coded as moderate; moderate to severe should be coded as severe.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Postop Echo	Format:	Text (categorical values specified by STS)
ParentShortName:	POpTTEch	DataLength:	
ParentValue:	= "Yes"	Data Source:	User

ParentHarvestCodes: 1

Harvest Codes:

Code: Value:

- 1 None
- 2 Trace/trivial
- 3 Mild
- 4 Moderate
- 5 Severe
- 6 Not reported

Long Name:	Postop Echo Tricuspid Insufficiency	SeqNo:	4640
Short Name:	POpTTTR	Core:	Yes
Section Name:	Postoperative	Harvest:	Yes

DBTableName AdultData

Definition: Indicate the highest level of tricuspid insufficiency/ regurgitation found on post op echo closest to discharge. Mild-to-moderate should be coded as moderate; moderate to severe should be coded as severe.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Postop Echo	Format:	Text (categorical values specified by STS)
ParentShortName:	POpTTEch	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCodes	s: 1		
Harvest Code	·s:		

Code: Value:

- 1 None
- 2 Trace/trivial

STS Adult Cardiac Surgery Database

Version:	2.81
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	Jery Database			1013101	1. 2.01
3	Mild				
4	Moderate				
5	Severe				
6	Not reported				
Long Name: Postop	Echo Pulmonic Insufficiency			SeqNo:	4645
Short Name: POpT	TPu			Core:	Yes
Section Name: Postop	erative			Harvest:	Yes
DBTableName Adult	Data				
	the highest level of pulmonic in: e. Mild-to-moderate should be c				
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name: 1	Postop Echo	Format:	Text (categorical value	es specified by	STS)
ParentShortName: P	OpTTEch	DataLength:			
ParentValue: =	"Yes"	Data Source:	User		
	Tes	Duiu Source.	User		
ParentHarvestCodes:		Duiu Source.	0.501		
ParentHarvestCodes: Harvest Codes:	1	Duiu Source.			
Harvest Codes:	1	Duiu Source.			
Harvest Codes:	1	Duru Source.			
Harvest Codes: <u>Code:</u>	1 <u>Value:</u>	Duru Source.			
Harvest Codes: <u>Code:</u> 1	l <u>Value:</u> None	Duni Source.			
Harvest Codes: <u>Code:</u> 1 2	l <u>Value:</u> None Trace/trivial	Duru Source.			
<u>Code:</u> 1 2 3	l <u>Value:</u> None Trace/trivial Mild	Duru Source.			

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Postop EF Done	SeqNo: 465
Short Name: POpEFD	Core: Ye
Section Name: Postoperative	Harvest: Ye
DBTableName AdultData	
Definition: Indicate whether the Ejection Fract	tion was measured postoperatively.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	
Harvest Codes:	
Code: Value:	
1 Yes	
2 No	
Long Name: Postop EF	SeqNo: 465
Long Name: Postop EF Short Name: POpEF	SeqNo: 465 Core: Ye
· ·	-
Short Name: POpEF	Core: Ye
Short Name: POpEF Section Name: Postoperative DBTableName AdultData Definition: Indicate the percentage of the bloo measured postoperatively.	<i>Core:</i> Ye <i>Harvest:</i> Ye d emptied from the left ventricle at the end of the contraction 1 - 99. If a percentage range is reported, report a whole number reported as 53%).
 Short Name: POpEF Section Name: Postoperative DBTableName AdultData Definition: Indicate the percentage of the bloomeasured postoperatively. Enter a percentage in the range of susing the "mean" (i.e., 50-55%, is not values reported as: Hyperdynamic: >70% Normal: 50%-70% (midpoint 60%) Mild dysfunction: 40%-49% (midpoint 60%) Moderate dysfunction: 30%-39% 	<i>Core:</i> Ye <i>Harvest:</i> Ye d emptied from the left ventricle at the end of the contraction 1 - 99. If a percentage range is reported, report a whole number reported as 53%).
 Short Name: POpEF Section Name: Postoperative DBTableName AdultData Definition: Indicate the percentage of the bloomeasured postoperatively. Enter a percentage in the range of susing the "mean" (i.e., 50-55%, is not values reported as: Hyperdynamic: >70% Normal: 50%-70% (midpoint 60%) Mild dysfunction: 40%-49% (midpoint 60%) Severe dysfunction: <30%) 	<i>Core:</i> Ye <i>Harvest:</i> Ye d emptied from the left ventricle at the end of the contraction 1 - 99. If a percentage range is reported, report a whole number reported as 53%).
Short Name:POpEFSection Name:PostoperativeDBTableNameAdultDataDefinition:Indicate the percentage of the bloomeasured postoperatively. Enter a percentage in the range of the using the "mean" (i.e., 50-55%, is not values reported as: Hyperdynamic: >70%Normal: 50%-70% (midpoint 60%)Mild dysfunction: 40%-49% (midpoint 60%)Moderate dysfunction: 30%-39% Severe dysfunction: <30%LowValue:1.0UsualRangeLow:5.0	<i>Core:</i> Ye <i>Harvest:</i> Ye d emptied from the left ventricle at the end of the contraction 1 - 99. If a percentage range is reported, report a whole number reported as 53%).
Short Name:POpEFSection Name:PostoperativeDBTableNameAdultDataDefinition:Indicate the percentage of the bloomeasured postoperatively. Enter a percentage in the range of the using the "mean" (i.e., 50-55%, is not values reported as: Hyperdynamic: >70%Normal: 50%-70% (midpoint 60%)Mild dysfunction: 40%-49% (milling)Moderate dysfunction: 30%-39%Severe dysfunction: <30% LowValue: 1.0 UsualRangeLow: 5.0 HighValue: 99.0 UsualRangeHigh: 99.0	<i>Core:</i> Ye <i>Harvest:</i> Ye d emptied from the left ventricle at the end of the contraction 1 - 99. If a percentage range is reported, report a whole number reported as 53%).

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Postop Cardiac Enzymes Drawn		<i>SeqNo:</i> 4660
Short Name: POpEnzDrawn		Core: Yes
Section Name: Postoperative		Harvest: Yes
DBTableName AdultData		
Definition: Indicate whether Cardiac Enzymes (bi	omarkers) were d	lrawn post procedure.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name:	Format:	Text (categorical values specified by STS)
ParentShortName:	DataLength:	
ParentValue:	Data Source:	User
ParentHarvestCodes:		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: Postop Peak CKMB		<i>SeqNo:</i> 4665
Short Name: POpPkCKMB		<i>Core:</i> Yes
Section Name: Postoperative		Harvest: Yes
DBTableName AdultData		
Definition: Indicate the peak CKMB (highest level	el post procedure)	
LowValue: 0.0 UsualRangeLow:		
HighValue: 5000.0 UsualRangeHigh:		
Parent Long Name: Postop Cardiac Enzymes Drawn	Format:	Real
ParentShortName: POpEnzDrawn	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		

STS Adult Cardiac Surgery Database			Versior	n: 2.81
Long Name: Postop Peak Troponin I			SeqNo:	4670
Short Name: POpPkTrI			Core:	Yes
Section Name: Postoperative			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the peak Troponin I (highest le	vel post procedu	ure).		
LowValue: 0.0 UsualRangeLow:				
HighValue: 5000.0 UsualRangeHigh:				
Parent Long Name: Postop Cardiac Enzymes Drawn	Format:	Real		
ParentShortName: POpEnzDrawn	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

Long Name: Postop Peak Troponin T		SeqNo:	4675
Short Name: POpPkTrT		Core:	Yes
Section Name: Postoperative		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate the peak Troponin T (highest l	evel post procedure).		
LowValue: 0.0 UsualRangeLow:			
HighValue: 5000.0 UsualRangeHigh:			
Parent Long Name: Postop Cardiac Enzymes Drawn	Format: Real		
ParentShortName: POpEnzDrawn	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source: User		
ParentHarvestCodes: 1			

STS Adult Cardiac Surg	ery Database			Versio	n: 2.81
Long Name: Postop	12 Lead EKG			SeqNo:	468
Short Name: POpE	KG			Core:	Ye
Section Name: Postope	erative			Harvest:	Ye
DBTableName AdultI	Data				
Definition: Indicate t	he post procedure 12 lead EKC	6 findings, if pe	rformed.		
LowValue: HighValue:	UsualRangeLow: UsualRangeHigh:				
Parent Long Name:		Format:	Text (categorical value	es specified by	STS)
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentHarvestCodes:					
Harvest Codes:					
	Value:				
1	Not Performed				
2	No ischemic changes				
4	New ST changes				
3	New Pathological Q-Wave or LBBB				
5	New STEMI				
6	Other				
7	NA (no pre-op EKG for comparison, transplant)				
Long Name: Postop	Imaging Study			SeqNo:	468:
Short Name: POpIm	nagStdy			Core:	Ye
Section Name: Postope	erative			Harvest:	Ye
DBTableName AdultI	Data				
Definition: Indicate t	he post procedure imaging stud	ly findings, if p	erformed.		
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name:		Format:	Text (categorical value	es specified by	STS)
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentHarvestCodes:					
Harvest Codes:					
Code:	Value:				
1	Not performed				
2	Angiographic evidence of				

new thrombosis or occlusion of graft or native coronary		
3 Imaging evidence of new loss of viable myocardium		
4 No evidence of new myocardial injury		
5 Other		
Long Name: Post-Op-Surgical Site Infection		<i>SeqNo:</i> 4690
Short Name: SurSInf		Core: Yes
Section Name: Postoperative Events		Harvest: Yes
DBTableName AdultData		
<i>Definition:</i> Indicate whether a surgical site infection any time during the hospitalization for s Refer to the most current CDC definition	urgery.	gnosed within 30 days of the procedure or a can be found in the training manual.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name:	Format:	Text (categorical values specified by STS)
ParentShortName:	DataLength:	
ParentValue:	Data Source:	User
ParentHarvestCodes:		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		

STS Adult Cardiac Surgery Database		Versio	n: 2.81
Long Name: Post-Op-Sternal-Superficial Wound In	ifection	SeqNo:	4695
Short Name: CSternalSupInf		Core:	Yes
Section Name: Postoperative Events		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether a superficial sternal worprocedure or any time during the hospital			
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Post-Op-Surgical Site Infection	Format:	Text (categorical values specified by	v STS)
ParentShortName: SurSInf	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
3 Yes, within 30 days of procedure			
4 Yes, >30 days after procedure but during hospitalization for surgery			
2 No			
Long Name: Post-Op-Deep Sternal Infection / Med	iastinitis	SeqNo:	4700
Short Name: DeepSternInf		Core:	Yes
Section Name: Postoperative Events		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether a deep sternal wound in the procedure or any time during the hosp			/s of
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Post-Op-Surgical Site Infection	Format:	Text (categorical values specified by	y STS)
ParentShortName: SurSInf	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
3 Yes, within 30 days of procedure			
4 Yes, >30 days after procedure but during hospitalization for surgery			

STS Adult Cardiac Surgery Database			Version	n: 2.81
2 No				
Long Name: Post-Op-Deep Sternal Infection / Me	diastinitis - Date		SeqNo:	4705
Short Name: DeepSternInfDt			Core:	Yes
Section Name: Postoperative Events			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the first date that deep sternal	wound infection	or mediastinitis was do	ocumented.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Post-Op-Deep Sternal Infection / Mediastinitis	Format:	Date mm/dd/yyyy		
ParentShortName: DeepSternInf	DataLength:			
<i>ParentValue:</i> = "Yes, within 30 days of procedure" or "Yes, >30 days after procedure but during hospitalization for surgery"	Data Source:	User		
ParentHarvestCodes: 3 4				

Long Name: Post-Op-Infect-Thoracotomy	SeqNo:	4710
Short Name: CIThor	Core:	Yes
Section Name: Postoperative Events	Harvest:	Yes
DBTableName AdultData		
<i>Definition:</i> Indicate whether a surgical site infection involving a thoracotomy or parasterna within 30 days of the procedure or any time during the hospitalization for surge		nosed
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Post-Op-Surgical Site Infection Format: Text (categorical value	es specified by	STS)
ParentShortName: SurSInf DataLength:		
ParentValue: = "Yes" Data Source: User		
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
3 Yes, within 30 days of procedure		
4 Yes, >30 days after procedure but during hospitalization for surgery		
2 No		

STS Adult Cardiac Surgery Database		Versior	n: 2.81
Long Name: Post-Op-Conduit Harvest		SeqNo:	4715
Short Name: ConduitHarv		Core:	Ye
Section Name: Postoperative Events		Harvest:	Ye
DBTableName AdultData			
Definition: Indicate whether a surgical site infection days of the procedure or any time during			n 30
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Post-Op-Surgical Site Infection	Format:	Text (categorical values specified by	STS)
ParentShortName: SurSInf	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
3 Yes, within 30 days of procedure			
4 Yes, >30 days after procedure but during hospitalization for surgery	2		
2 No			
Long Name: Post-Op-Cannulation Site		SeqNo:	4720
Short Name: CanSite		Core:	Yes
Section Name: Postoperative Events		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether a surgical site infection of the procedure or any time during the			days
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Post-Op-Surgical Site Infection	Format:	Text (categorical values specified by	STS)
ParentShortName: SurSInf	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
3 Yes, within 30 days of procedure			
4 Yes, >30 days after procedure but during hospitalization for surgery	2		

STS Adult Cardiac Surgery Database			Versio	า: 2.81
2 No				
Long Name: Post-Op-Wound Intervention / Proceed	lure		SeqNo: Core:	4725 Yes
Section Name: Postoperative Events			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether a wound intervention of	or procedure wa	s performed.		
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:				
Parent Long Name: Post-Op-Surgical Site Infection	Format:	Text (categorical values	s specified by	STS)
ParentShortName: SurSInf	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Post-Op-Wound Intervention - Open	With Packing /	Irrigation	SeqNo:	4730
Short Name: WoundIntOpen	C	C	Core:	Yes
Section Name: Postoperative Events			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate whether wound intervention(s)	involved openi	ng the wound and packin	g and/or irrig	ation.
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Post-Op-Wound Intervention / Procedure	Format:	Text (categorical values	s specified by	STS)
ParentShortName: WoundInter	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentValue: = "Yes" ParentHarvestCodes: 1	Data Source:	User		
	Data Source:	User		
ParentHarvestCodes: 1	Data Source:	User		
ParentHarvestCodes: 1 Harvest Codes:	Data Source:	User		
ParentHarvestCodes: 1 Harvest Codes: <u>Code: Value:</u>	Data Source:	User		
ParentHarvestCodes: 1 Harvest Codes: Value: Code: Value: 1 Yes, primary incision	Data Source:	User		

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Post-Op-Wound Intervention - Wound	d Vac		SeqNo:	4735
Short Name: WoundIntVac			Core:	Ye
Section Name: Postoperative Events			Harvest:	Ye
DBTableName AdultData				
<i>Definition:</i> Indicate whether wound intervention(s)	included applic	ation of a wound va	c.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Post-Op-Wound Intervention / Procedure	Format:	Text (categorical v	values specified by	STS)
ParentShortName: WoundInter	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes, primary incision				
2 Yes, secondary incision				
3 Both				
4 No				
Long Name: Post-Op-Wound Intervention - Second	darv Procedure	Muscle Flap	SeqNo:	4740
Short Name: WoundIntMuscle	,, j	nit i nr	Core:	Yes
Section Name: Postoperative Events			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate whether wound intervention(s)	included a seco	ndary procedure inv	volving a muscle fl	ap.
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Post-Op-Wound Intervention / Procedure	Format:	Text (categorical v	values specified by	STS)
ParentShortName: WoundInter	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes, primary incision				
2 Yes, secondary incision				
2 Yes, secondary incision3 Both				

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Post-Op-Wound Intervention - Se	econdary Procedure Omental Flap	SeqNo: 4745
Short Name: WoundIntOmental		Core: Yes
Section Name: Postoperative Events		Harvest: Yes
DBTableName AdultData		
Definition: Indicate whether wound intervention	n(s) included a secondary procedure in	volving an Omental flap.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Post-Op-Wound Intervention Procedure	on / Format: Text (categorical	values specified by STS)
ParentShortName: WoundInter	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source: User	
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: In Hospital Post-Op Events		<i>SeqNo:</i> 4750
Short Name: Complics		Core: Yes
Section Name: Postoperative Events		Harvest: Yes
DBTableName AdultData		
<i>Definition:</i> Indicate whether a postoperative event the entire postoperative period up to	ent occurred during the hospitalization of discharge, even if over 30 days.	for surgery. This includes
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name:	Format: Text (categorical	values specified by STS)
ParentShortName:	DataLength:	
ParentValue:	Data Source: User	
ParentHarvestCodes:		
ParentHarvestCodes: Harvest Codes:		
Harvest Codes:		

STS Adult Cardiac Surgery Database		Version	1: 2.81
Long Name: Post-Op-ReOp Bleed		SeqNo:	475
Short Name: COpReBld		Core:	Ye
Section Name: Postoperative Events		Harvest:	Ye
DBTableName AdultData			
<i>Definition:</i> Indicate whether the patient was reexp either in the ICU or returned to the ope		inal bleeding with or without tamponad	de
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: In Hospital Post-Op Events	Format:	Text (categorical values specified by	STS)
ParentShortName: Complics	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
Long Name: Post-Op-ReOp Bleed Timing		SeqNo:	476
Short Name: COpReBldTim		Core:	Ye
Section Name: Postoperative Events		Harvest:	Ye
DBTableName AdultData			
Definition: Indicate when reoperation for bleeding	g took place.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Post-Op-ReOp Bleed	Format:	Text (categorical values specified by	STS)
ParentShortName: COpReBld	DataLength:		
ParentValue: = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes and Value Definitions:			
Code: Value:	Definition:		
1 Acute	Within 24 h	ours of the end of the case	
2 Late	more than 2	4 hours after case ends	

STS Adult Ca	rdiac Surgery Database	Version	า: 2.81
Long Name:	Post-Op-ReOp Vlv Dys	SeqNo:	4765
Short Name:	COpReVlv	Core:	Yes
Section Name	e: Postoperative Events	Harvest:	Yes
DBTableNan	ne AdultData		
·	Indicate whether the patient returned to the operating room dysfunction. Dysfunction may be structural and/or non-stru prosthesis, a progressive native disease process, or an acute function and creates either clinical compromising insufficient narrowing.	nctural failure. Dysfunction may be e event process that disrupts valve	of
LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		

mgnvalue.	O suaiKangemign.		
Parent Long Name:	In Hospital Post-Op Events	Format:	Text (categorical values specified by STS)
ParentShortName:	Complics	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCode.	s: 1		

ur churrar vesteoues.

Harvest Codes:

Code:	Value:	

- 3 Yes, surgical
- 4 Yes, transcatheter
- 2 No

Long Name:	Post-Op-Reintervention-Graft Occlusion	SeqNo:	4770
Short Name:	COpReGft	Core:	Yes
Section Name:	Postoperative Events	Harvest:	Yes

DBTableName AdultData

Definition: Indicate whether the patient returned to the operating room or the cath lab for intervention of coronary graft occlusion due to acute closure, thrombosis, technical or embolic origin.

LowValue: HighValue:	UsualRangeLow: UsualRangeHigh:		
Parent Long Name:	In Hospital Post-Op Events	Format:	Text (categorical values specified by STS)
ParentShortName: 0	Complics	DataLength:	
ParentValue: =	= "Yes"	Data Source:	User
ParentHarvestCodes:	1		
Harvest Codes	:		
Code	<u>: Value:</u>		
3	Yes, surgical		
4	Yes, PCI		
2	No		

STS Adult Cardiac Surgery Database	Version: 2.8
Long Name: Post-Op-ReOp Other Card	SeqNo: 47
Short Name: COpReOth	Core: Y
Section Name: Postoperative Events	Harvest: Y
DBTableName AdultData	
Definition: Indicate whether the patient returned to	o the operating room for other cardiac reasons.
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name: In Hospital Post-Op Events	<i>Format:</i> Text (categorical values specified by STS)
ParentShortName: Complics	DataLength:
ParentValue: = "Yes"	Data Source: User
ParentHarvestCodes: 1	
Harvest Codes:	
Code: Value:	
1 Yes	
2 No	
Long Name: Post-Op-ReOp Other Non Card	SeqNo: 475
Short Name: COpReNon	Core: Y
Section Name: Postoperative Events	Harvest: Y
DBTableName AdultData	
<i>Definition:</i> Indicate whether the patient returned to This includes procedures requiring a re surgery procedures.	o the operating room for other non-cardiac reasons. eturn to the operating room such as tracheostomy, general ormed outside the operating room such as GI Lab for peg
Definition: Indicate whether the patient returned to This includes procedures requiring a resurgery procedures. This does not include procedures performed	eturn to the operating room such as tracheostomy, general
Definition: Indicate whether the patient returned to This includes procedures requiring a re- surgery procedures. This does not include procedures perfor- tube, shunts for dialysis, etc.	eturn to the operating room such as tracheostomy, general
Definition:Indicate whether the patient returned to This includes procedures requiring a re- surgery procedures. This does not include procedures perfor tube, shunts for dialysis, etc.LowValue:UsualRangeLow:	eturn to the operating room such as tracheostomy, general
Definition:Indicate whether the patient returned to This includes procedures requiring a re- surgery procedures. This does not include procedures perfor tube, shunts for dialysis, etc.LowValue:UsualRangeLow: UsualRangeHigh:	eturn to the operating room such as tracheostomy, general ormed outside the operating room such as GI Lab for peg
Definition:Indicate whether the patient returned to This includes procedures requiring a re- surgery procedures. This does not include procedures perfor 	eturn to the operating room such as tracheostomy, general ormed outside the operating room such as GI Lab for peg <i>Format:</i> Text (categorical values specified by STS)
Definition:Indicate whether the patient returned to This includes procedures requiring a re- surgery procedures. This does not include procedures perfor tube, shunts for dialysis, etc.LowValue:UsualRangeLow: UsualRangeHigh: Parent Long Name:ParentShortName:Complics	eturn to the operating room such as tracheostomy, general ormed outside the operating room such as GI Lab for peg <i>Format:</i> Text (categorical values specified by STS) <i>DataLength:</i>
Definition: Indicate whether the patient returned to This includes procedures requiring a re- surgery procedures. This does not include procedures perfor- tube, shunts for dialysis, etc. LowValue: UsualRangeLow: UsualRangeHigh: HighValue: UsualRangeHigh: Parent Long Name: In Hospital Post-Op Events ParentShortName: Complics ParentValue:	eturn to the operating room such as tracheostomy, general ormed outside the operating room such as GI Lab for peg <i>Format:</i> Text (categorical values specified by STS) <i>DataLength:</i>
Definition: Indicate whether the patient returned to This includes procedures requiring a re- surgery procedures. This does not include procedures perfor- tube, shunts for dialysis, etc. LowValue: UsualRangeLow: UsualRangeHigh: HighValue: UsualRangeHigh: Parent Long Name: ParentShortName: Complics ParentValue: ParentHarvestCodes: 1	eturn to the operating room such as tracheostomy, general ormed outside the operating room such as GI Lab for peg <i>Format:</i> Text (categorical values specified by STS) <i>DataLength:</i>
Definition: Indicate whether the patient returned to This includes procedures requiring a re- surgery procedures. This does not include procedures perfor- tube, shunts for dialysis, etc. LowValue: UsualRangeLow: HighValue: HighValue: UsualRangeHigh: Parent Long Name: ParentShortName: Complics ParentValue: ParentHarvestCodes: 1 Harvest Codes:	eturn to the operating room such as tracheostomy, general ormed outside the operating room such as GI Lab for peg <i>Format:</i> Text (categorical values specified by STS) <i>DataLength:</i>

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Post-Op-Open Chest With Planned I	Delayed Sternal (Closure	SeqNo:	478:
Short Name: COpPlndDelay			Core:	Ye
Section Name: Postoperative Events		I	Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the chest was left ope	en with planned d	elayed sternal closure.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: In Hospital Post-Op Events	Format:	Text (categorical values s	specified by	STS)
ParentShortName: Complics	DataLength:			
ParentValue: = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
<u>Code: Value:</u>				
1 Yes				
2 No				
Long Name: Post-Op-Sternotomy Issue			SeqNo:	4790
Short Name: CSternal		,	Core:	Yes
Section Name: Postoperative Events		I	Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate presence of a post-operative st	ternotomy issue.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:	_	_ /		
Parent Long Name: In Hospital Post-Op Events	Format:	Text (categorical values s	specified by	STS)
ParentShortName: Complics	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Post-Op Sternal instability/dehiscen	ce (sterile)		SeqNo:	479
Short Name: CSternalDehis			Core:	Ye
Section Name: Postoperative Events			Harvest:	Ye
DBTableName AdultData				
Definition: The code indicates sterile dehiscence or requires surgical intervention. Skin and	U			hich
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:	-	T () 1 1		(TRO)
Parent Long Name: Post-Op-Sternotomy Issue	Format:	Text (categorical value	les specified by	STS)
ParentShortName: CSternal	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Post-Op-Sepsis			SeqNo:	4800
Short Name: CSepsis			Core:	Ye
Section Name: Postoperative Events			TT .	
Section Nume. Tostoperative Events			Harvest:	Ye
DBTableName AdultData	s infection accom	nanied by a deleteriou		Ye
DBTableName AdultData Definition: Sepsis is defined as evidence of seriou In the time period of the first 48 postop requires the presence of a Systemic Inf proven infection (such as bacteremia, first 48 postoperative or postproced SIRS resulting from suspected or prov for sepsis during this time period shou syndrome (SIRS) is present when at le hyperthermia (>38.5 or <36.0), tachycor	perative or postpr flammatory Respo fungemia or urina dural hours, sepsi en infection. Dur and/or cardiopul ld be more stringo ast two of the foll	ocedural hours, the dia onse Syndrome (SIRS) ry tract infection). In t s may be diagnosed by ing the first 48 hours, a monary bypass. Thus, ent. A systemic inflam owing criteria are pres	as systemic responses agnosis of sepsis resulting from the time period a the presence of a SIRS may result the clinical critic matory responses sent: hypo- or	onse. s after f a ult eria e
DBTableName AdultData Definition: Sepsis is defined as evidence of seriou In the time period of the first 48 postop requires the presence of a Systemic Inf proven infection (such as bacteremia, i the first 48 postoperative or postproced SIRS resulting from suspected or prov from the stress associated with surgery for sepsis during this time period shou syndrome (SIRS) is present when at le hyperthermia (>38.5 or <36.0), tachyc or thrombocytopenia.	perative or postpr flammatory Respo fungemia or urina dural hours, sepsi en infection. Dur and/or cardiopul ld be more stringo ast two of the foll	ocedural hours, the dia onse Syndrome (SIRS) ry tract infection). In t s may be diagnosed by ing the first 48 hours, a monary bypass. Thus, ent. A systemic inflam owing criteria are pres	as systemic responses agnosis of sepsis or resulting from the time period a of the presence of a SIRS may result the clinical critic matory responses sent: hypo- or	onse. s after f a ılt eria e
DBTableName AdultData Definition: Sepsis is defined as evidence of seriou In the time period of the first 48 postop requires the presence of a Systemic Inf proven infection (such as bacteremia, i the first 48 postoperative or postproced SIRS resulting from suspected or prov from the stress associated with surgery for sepsis during this time period shou syndrome (SIRS) is present when at le hyperthermia (>38.5 or <36.0), tachyc. or thrombocytopenia.	perative or postpr flammatory Respo fungemia or urina dural hours, sepsi en infection. Dur and/or cardiopul ld be more stringo ast two of the foll	ocedural hours, the dia onse Syndrome (SIRS) ry tract infection). In t s may be diagnosed by ing the first 48 hours, a monary bypass. Thus, ent. A systemic inflam owing criteria are pres	as systemic responses agnosis of sepsis or resulting from the time period a of the presence of a SIRS may result the clinical critic matory responses sent: hypo- or	onse. s aafter f a ılt eria e
DBTableNameAdultDataDefinition:Sepsis is defined as evidence of seriou In the time period of the first 48 postop requires the presence of a Systemic Inf proven infection (such as bacteremia, i the first 48 postoperative or postproced SIRS resulting from suspected or prov from the stress associated with surgery for sepsis during this time period shou syndrome (SIRS) is present when at le hyperthermia (>38.5 or <36.0), tachyc or thrombocytopenia.LowValue:UsualRangeLow: UsualRangeHigh:	perative or postpr flammatory Respo fungemia or urina dural hours, sepsi en infection. Dur and/or cardiopul ld be more stringo ast two of the foll	ocedural hours, the dia onse Syndrome (SIRS) ry tract infection). In t s may be diagnosed by ing the first 48 hours, a monary bypass. Thus, ent. A systemic inflam owing criteria are pres	as systemic responses agnosis of sepsis or resulting from the time period a of the presence of a SIRS may result the clinical critic matory responses sent: hypo- or ytosis or leukop	onse. s aafter f a ult eria e enia,
DBTableNameAdultDataDefinition:Sepsis is defined as evidence of seriou In the time period of the first 48 postop requires the presence of a Systemic Inf proven infection (such as bacteremia, i the first 48 postoperative or postproced SIRS resulting from suspected or prov from the stress associated with surgery for sepsis during this time period shou syndrome (SIRS) is present when at le hyperthermia (>38.5 or <36.0), tachyc or thrombocytopenia.LowValue:UsualRangeLow: HighValue:HighValue:UsualRangeHigh: Parent Long Name:	perative or postpr flammatory Respo fungemia or urina dural hours, sepsi en infection. Dur and/or cardiopul ld be more stringo ast two of the foll ardia or bradycard	ocedural hours, the dia onse Syndrome (SIRS) ry tract infection). In t s may be diagnosed by ing the first 48 hours, a monary bypass. Thus, ent. A systemic inflam owing criteria are pres dia, tachypnea, leukoc	as systemic responses agnosis of sepsis or resulting from the time period a of the presence of a SIRS may result the clinical critic matory responses sent: hypo- or ytosis or leukop	onse. s aafter f a ult eria e enia,
DBTableName AdultData Definition: Sepsis is defined as evidence of seriou In the time period of the first 48 postop requires the presence of a Systemic Inf proven infection (such as bacteremia, first 48 postoperative or postproced SIRS resulting from suspected or prov for sepsis during this time period shou syndrome (SIRS) is present when at le hyperthermia (>38.5 or <36.0), tachyc.	perative or postpr flammatory Respo fungemia or urina dural hours, sepsi en infection. Dur and/or cardiopul ld be more stringo ast two of the foll ardia or bradycard	ocedural hours, the dia onse Syndrome (SIRS) ry tract infection). In t s may be diagnosed by ing the first 48 hours, a monary bypass. Thus, ent. A systemic inflam owing criteria are pres dia, tachypnea, leukoc	as systemic responses agnosis of sepsis or resulting from the time period a of the presence of a SIRS may result the clinical critic matory responses sent: hypo- or ytosis or leukop	onse. s aafter f a ult eria e enia,
DBTableName AdultData Definition: Sepsis is defined as evidence of seriou In the time period of the first 48 postop requires the presence of a Systemic Inf proven infection (such as bacteremia, first 48 postoperative or postproced SIRS resulting from suspected or prov from the stress associated with surgery for sepsis during this time period shou syndrome (SIRS) is present when at le hyperthermia (>38.5 or <36.0), tachyc.	perative or postpr flammatory Respo fungemia or urina dural hours, sepsi en infection. Dur and/or cardiopul ld be more stringe ast two of the foll ardia or bradycard <i>Format:</i> <i>DataLength:</i>	ocedural hours, the dia onse Syndrome (SIRS) ry tract infection). In t s may be diagnosed by ing the first 48 hours, a monary bypass. Thus, ent. A systemic inflam owing criteria are pres dia, tachypnea, leukoc	as systemic responses agnosis of sepsis or resulting from the time period a of the presence of a SIRS may result the clinical critic matory responses sent: hypo- or ytosis or leukop	onse. s aafter f a ult eria e enia,
DBTableName AdultData Definition: Sepsis is defined as evidence of seriou In the time period of the first 48 postop requires the presence of a Systemic Inf proven infection (such as bacteremia, it the first 48 postoperative or postproced SIRS resulting from suspected or prov from the stress associated with surgery for sepsis during this time period shou syndrome (SIRS) is present when at le hyperthermia (>38.5 or <36.0), tachyc.	perative or postpr flammatory Respo fungemia or urina dural hours, sepsi en infection. Dur and/or cardiopul ld be more stringe ast two of the foll ardia or bradycard <i>Format:</i> <i>DataLength:</i>	ocedural hours, the dia onse Syndrome (SIRS) ry tract infection). In t s may be diagnosed by ing the first 48 hours, a monary bypass. Thus, ent. A systemic inflam owing criteria are pres dia, tachypnea, leukoc	as systemic responses agnosis of sepsis or resulting from the time period a of the presence of a SIRS may result the clinical critic matory responses sent: hypo- or ytosis or leukop	onse. s aafter f a ult eria e enia,
DBTableName AdultData Definition: Sepsis is defined as evidence of seriou In the time period of the first 48 postop requires the presence of a Systemic Inf proven infection (such as bacteremia, if the first 48 postoperative or postproced SIRS resulting from suspected or prov for the stress associated with surgery for sepsis during this time period shou syndrome (SIRS) is present when at le hyperthermia (>38.5 or <36.0), tachyc.	perative or postpr flammatory Respo fungemia or urina dural hours, sepsi en infection. Dur and/or cardiopul ld be more stringe ast two of the foll ardia or bradycard <i>Format:</i> <i>DataLength:</i>	ocedural hours, the dia onse Syndrome (SIRS) ry tract infection). In t s may be diagnosed by ing the first 48 hours, a monary bypass. Thus, ent. A systemic inflam owing criteria are pres dia, tachypnea, leukoc	as systemic responses agnosis of sepsis or resulting from the time period a of the presence of a SIRS may result the clinical critic matory responses sent: hypo- or ytosis or leukop	onse. s aafter f a ult eria e enia,

STS Adult Cardiac Surgery	Database
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2 No

Long Name:	Post-Op-Sepsis-Positive Blood Cultures	SeqNo:	4805
Short Name:	CSepsisPBC	Core:	Yes
Section Name:	Postoperative Events	Harvest:	Yes
DBTableName	AdultData		

Definition: Indicate whether a recognized pathogen is cultured from 1 or more blood cultures and is not related to an infection at another site.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Post-Op-Sepsis	Format:	Text (categorical values specified by STS)
ParentShortName:	CSepsis	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
	1		

ParentHarvestCodes: 1

Harvest Codes:

Code: Value: 1 Yes 2 No

Long Name:	Post-Op-Neuro-Stroke Perm	SeqNo:	4810
Short Name:	CNStrokP	Core:	Yes
Section Name:	Postoperative Events	Harvest:	Yes

DBTableName AdultData

Definition: Indicate whether the patient has a postoperative stroke and the type of stroke (i.e., any confirmed neurological deficit of abrupt onset caused by a disturbance in blood supply to the brain) that did not resolve within 24 hours.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	In Hospital Post-Op Events	Format:	Text (categorical values specified by STS)
ParentShortName:	Complics	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCode	<i>s</i> : 1		
Harvest Code	25:		
Cod	le: <u>Value:</u>		
	3 Yes, hemorrhagic		

- 4 Yes, embolic
- 5 Yes, undetermined type
- 2 No

Version: 2.81

STS Adult Cardiac Surgery Database			Version: 2.81	
Long Name: Post-Op-Neuro-Transient Ischemic Attack - TIA			SeqNo:	4815
Short Name: CNStrokTTIA			Core:	Yes
Section Name: Postoperative Events			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate whether the patient had a post neurological function that was abrupt in	1		/	hours.
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: In Hospital Post-Op Events	Format:	Text (categorical value	es specified by	STS)
ParentShortName: Complics	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Post-Op-Neuro-Coma/Encephalopa	thy		SeqNo:	4820
Short Name: CNComaEnceph			Core:	Yes
-			Core: Harvest:	
Short Name:CNComaEncephSection Name:Postoperative EventsDBTableNameAdultData				
Section Name: Postoperative Events	l a postoperative of	coma and/or encephalop	Harvest:	
Section Name: Postoperative Events DBTableName AdultData	l a postoperative o	oma and/or encephalop	Harvest:	
Section Name: Postoperative Events DBTableName AdultData Definition: Indicate whether the patient developed LowValue: UsualRangeLow:	l a postoperative o	oma and/or encephalop	Harvest:	
Section Name: Postoperative Events DBTableName AdultData Definition: Indicate whether the patient developed LowValue: UsualRangeLow:	l a postoperative o <i>Format:</i>	coma and/or encephalop Text (categorical value	<i>Harvest:</i> athy.	Yes
Section Name: Postoperative Events DBTableName AdultData Definition: Indicate whether the patient developed LowValue: UsualRangeLow: HighValue: UsualRangeHigh:			<i>Harvest:</i> athy.	Yes
Section Name: Postoperative Events DBTableName AdultData Definition: Indicate whether the patient developed LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: In Hospital Post-Op Events	Format:	Text (categorical value	<i>Harvest:</i> athy.	Yes
Section Name: Postoperative Events DBTableName AdultData Definition: Indicate whether the patient developed LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: In Hospital Post-Op Events ParentShortName: Complics	Format: DataLength:	Text (categorical value	<i>Harvest:</i> athy.	Yes
Section Name: Postoperative Events DBTableName AdultData Definition: Indicate whether the patient developed LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: In Hospital Post-Op Events ParentShortName: Complics ParentValue: = "Yes"	Format: DataLength:	Text (categorical value	<i>Harvest:</i> athy.	Yes
Section Name: Postoperative Events DBTableName AdultData Definition: Indicate whether the patient developed LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: In Hospital Post-Op Events ParentShortName: Complics ParentValue: = "Yes" ParentHarvestCodes: 1	Format: DataLength:	Text (categorical value	<i>Harvest:</i> athy.	Yes
Section Name: Postoperative Events DBTableName AdultData Definition: Indicate whether the patient developed LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: In Hospital Post-Op Events ParentShortName: Complics ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes:	Format: DataLength:	Text (categorical value	<i>Harvest:</i> athy.	Yes
Section Name: Postoperative Events DBTableName AdultData Definition: Indicate whether the patient developed LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: In Hospital Post-Op Events ParentShortName: Complics ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes: <u>Code: Value:</u>	Format: DataLength:	Text (categorical value	<i>Harvest:</i> athy.	Yes
Section Name: Postoperative Events DBTableName AdultData Definition: Indicate whether the patient developed LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: In Hospital Post-Op Events ParentShortName: Complics ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes: <u>Code: Value:</u> 1 None	Format: DataLength:	Text (categorical value	<i>Harvest:</i> athy.	Yes
Section Name: Postoperative Events DBTableName AdultData Definition: Indicate whether the patient developed LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: In Hospital Post-Op Events ParentShortName: Complics ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes: <u>Code: Value:</u> 1 None 2 Anoxic	Format: DataLength:	Text (categorical value	<i>Harvest:</i> athy.	Yes
Section Name: Postoperative Events DBTableName AdultData Definition: Indicate whether the patient developed LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: In Hospital Post-Op Events ParentShortName: Complics ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes: 1 Harvest Codes: 1 None 2 Anoxic 3 Embolic	Format: DataLength:	Text (categorical value	<i>Harvest:</i> athy.	Yes
Section Name: Postoperative Events DBTableName AdultData Definition: Indicate whether the patient developed LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: In Hospital Post-Op Events ParentShortName: Complics ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes: <u>Code: Value:</u> 1 None 2 Anoxic 3 Embolic 4 Drug	Format: DataLength:	Text (categorical value	<i>Harvest:</i> athy.	Yes
Section Name: Postoperative Events DBTableName AdultData Definition: Indicate whether the patient developed LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: In Hospital Post-Op Events ParentShortName: Complics ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes: <u>Code: Value:</u> 1 None 2 Anoxic 3 Embolic 4 Drug 5 Metabolic	Format: DataLength:	Text (categorical value	<i>Harvest:</i> athy.	Yes Yes

STS Adult Cardiac Surgery Database		Version: 2.81		
Long Name: Post-Op-Neuro-Paralysis		SeqNo:	4825	
Short Name: CNParal		Core:	Yes	
Section Name: Postoperative Events		Harvest:	Yes	
DBTableName AdultData				
<i>Definition:</i> Indicate whether the patient had a new spinal cord ischemia and not related to		ralysis, paraparesis, or paraplegia relate	ed to	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: In Hospital Post-Op Events	Format:	Text (categorical values specified by	STS)	
ParentShortName: Complics	DataLength:			
ParentValue: = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
<i>Long Name:</i> Post-Op-Neuro-Paralysis Type		SeqNo:	4830	
Short Name: CNParalTy		Core:	Yes	
Section Name: Postoperative Events		Harvest:	Yes	
DBTableName AdultData				
<i>Definition:</i> Indicate whether the new postoperativ permanent.	e paralysis, parap	aresis, or paraplegia was transient or		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Post-Op-Neuro-Paralysis	Format:	Text (categorical values specified by	STS)	
ParentShortName: CNParal	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Transient				

STS Adult Cardiac Surgery Database		Version: 2	2.81
Long Name: Post-Op-Pulm-Vent Prolonged		SeqNo:	4835
Short Name: CPVntLng		Core:	Yes
Section Name: Postoperative Events		Harvest:	Yes
DBTableName AdultData			
hours following reintubation.	time include OR	ve pulmonary ventilation > 24.0 hours. exit until extubation, plus any additional conary edema, and/or any patient requirin	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: In Hospital Post-Op Events	Format:	Text (categorical values specified by ST	ΓS)
ParentShortName: Complics	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
			10.14
Long Name: Post-Op-Pulm-Pneumonia		1	4840
Short Name: CPPneum		Core:	Yes Yes
Section Name: Postoperative Events		Harvest:	1 65
DBTableName AdultData	· • •		
<i>Definition:</i> Indicate whether the patient had pneum	ionia according t	o the CDC definition.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:	E	Tout (actor or ical uslues gradied by S	TC)
Parent Long Name: In Hospital Post-Op Events	Format:	Text (categorical values specified by ST	15)
ParentShortName: Complics ParentValue: = "Yes"	DataLength: Data Source:	Lan	
ParentHarvestCodes: 1	Dala Source:	User	
Harvest Codes:			
<u>Code:</u> <u>Value:</u>			
1 Yes			
2 No			

STS Adult Cardiac Surgery Database		Versio	n: 2.81
Long Name: Post-Op-Venous Thromboembolism	n-VTE	SeqNo:	4845
Short Name: CVTE		Core:	Yes
Section Name: Postoperative Events		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether the patient developed	d postoperative ve	enous thrombosis or thromboembolic of	event.
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: In Hospital Post-Op Events	Format:	Text (categorical values specified by	v STS)
ParentShortName: Complics	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
Long Name: Post-Op-Pulmonary Thromboembo	lism	SeqNo:	4850
Short Name: PulmEmb		Core:	Yes
Section Name: Postoperative Events		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether the patient had a pul as V/Q scan, angiogram, or spiral CT.		mbolism diagnosed by radiologic stud	ly such
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Post-Op-Venous Thromboembolism-VTE	Format:	Text (categorical values specified by	v STS)
ParentShortName: CVTE	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Cardiac Surgery Database		Versio	n: 2.81
Long Name: Post-Op-Deep Venous Thrombosis		SeqNo:	4855
Short Name: DVT		Core:	Yes
Section Name: Postoperative Events		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether patient had thrombosi	is (clot formation) in a deep vein.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Post-Op-Venous Thromboembolism-VTE	Format:	Text (categorical values specified by	STS)
ParentShortName: CVTE	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
Long Name: Post-Op-Pleural Effusion Requiring	Drainage	SeqNo:	4860
Short Name: CPlEff	-	Core:	Yes
Section Name: Postoperative Events		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether a post-operative pleur insertion.	al effusion requi	red drainage via thoracentesis or chest	tube
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: In Hospital Post-Op Events	Format:	Text (categorical values specified by	STS)
ParentShortName: Complics	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Cardiac Surgery Database			Versio	า: 2.81
Long Name: Post-Op-Pneumothorax Requiring In	ntervention		SeqNo:	4865
Short Name: PostOpPneumo			Core:	Yes
Section Name: Postoperative Events			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate whether the patient had a post	t-operative pneun	nothorax requiring inter	vention.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: In Hospital Post-Op Events	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: Complics	DataLength:			
ParentValue: = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Post-Op-Renal-Renal Failure			SeqNo:	4870
Short Name: CRenFail			Core:	Yes
Section Name: Postoperative Events			Harvest:	Yes
DBTableName AdultData				
DBTableName AdultData Definition: Indicate whether the patient had acute OR BOTH of the following: 1. Increase in serum creatinine level 3. , Acute rise must be at least 0.5 mg/d1	0 x greater than l	baseline, or serum creat	inine level ≥4 r	
<i>Definition:</i> Indicate whether the patient had acute OR BOTH of the following: 1. Increase in serum creatinine level 3.	0 x greater than l	baseline, or serum creat	inine level ≥4 r	
<i>Definition:</i> Indicate whether the patient had acute OR BOTH of the following: 1. Increase in serum creatinine level 3. , Acute rise must be at least 0.5 mg/dl	0 x greater than l	baseline, or serum creat	inine level ≥4 r	
Definition:Indicate whether the patient had acute OR BOTH of the following: 1. Increase in serum creatinine level 3. , Acute rise must be at least 0.5 mg/dlLowValue:UsualRangeLow:	0 x greater than l	baseline, or serum creat	inine level ≥4 r peratively.	ng/dL
Definition:Indicate whether the patient had acute OR BOTH of the following: 1. Increase in serum creatinine level 3. , Acute rise must be at least 0.5 mg/dlLowValue:UsualRangeLow: UsualRangeHigh:	0 x greater than b 2. A new require	baseline, or serum creat ment for dialysis posto	inine level ≥4 r peratively.	ng/dL
Definition:Indicate whether the patient had acute OR BOTH of the following: 1. Increase in serum creatinine level 3. , Acute rise must be at least 0.5 mg/dlLowValue:UsualRangeLow: UsualRangeHigh: Parent Long Name:In Hospital Post-Op Events	0 x greater than b 2. A new require <i>Format:</i>	baseline, or serum creat ment for dialysis postop Text (categorical valu	inine level ≥4 r peratively.	ng/dL
Definition:Indicate whether the patient had acute OR BOTH of the following: 1. Increase in serum creatinine level 3. , Acute rise must be at least 0.5 mg/dlLowValue:UsualRangeLow: UsualRangeHigh: Parent Long Name:Parent ShortName:Complics	0 x greater than b 2. A new require <i>Format:</i> <i>DataLength:</i>	baseline, or serum creat ment for dialysis postop Text (categorical valu	inine level ≥4 r peratively.	ng/dL
Definition:Indicate whether the patient had acute OR BOTH of the following: 1. Increase in serum creatinine level 3. , Acute rise must be at least 0.5 mg/dlLowValue:UsualRangeLow: UsualRangeHigh: Parent Long Name:Parent Long Name:In Hospital Post-Op Events ParentShortName:ParentValue:= "Yes"	0 x greater than b 2. A new require <i>Format:</i> <i>DataLength:</i>	baseline, or serum creat ment for dialysis postop Text (categorical valu	inine level ≥4 r peratively.	ng/dL
Definition: Indicate whether the patient had acute OR BOTH of the following: 1. Increase in serum creatinine level 3. , Acute rise must be at least 0.5 mg/dl LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: In Hospital Post-Op Events ParentShortName: Complics ParentValue: = "Yes" ParentHarvestCodes: 1	0 x greater than b 2. A new require <i>Format:</i> <i>DataLength:</i>	baseline, or serum creat ment for dialysis postop Text (categorical valu	inine level ≥4 r peratively.	ng/dL
Definition:Indicate whether the patient had acute OR BOTH of the following: 1. Increase in serum creatinine level 3. , Acute rise must be at least 0.5 mg/dlLowValue:UsualRangeLow: HighValue:HighValue:UsualRangeHigh: Parent Long Name:Parent ShortName:Complics ParentValue:ParentHarvestCodes:1 Harvest Codes:	0 x greater than b 2. A new require <i>Format:</i> <i>DataLength:</i>	baseline, or serum creat ment for dialysis postop Text (categorical valu	inine level ≥4 r peratively.	ng/dL

STS Adult Cardiac Surgery Database		Version: 2	.81
Long Name: Post-Op-Renal-Dialysis Req		SeqNo: 4	1875
Short Name: CRenDial		Core:	Yes
Section Name: Postoperative Events		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether the patient had a new hemodialysis, peritoneal dialysis.	requirement for	dialysis postoperatively, which may inclu	de
LowValue: UsualRangeLow: HighValue: UsualRangeHigh:			
Parent Long Name: Post-Op-Renal-Renal Failure	Format:	Text (categorical values specified by ST	S)
ParentShortName: CRenFail	DataLength:		
ParentValue: = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
Long Name: Post-Op-Dialysis Duration		SeqNo: 4	4880
Short Name: DialDur		Core:	Yes
Section Name: Postoperative Events		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether dialysis was required	after hospital dis	scharge.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Post-Op-Renal-Dialysis Req	Format:	Text (categorical values specified by ST	S)
ParentShortName: CRenDial	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Cardiac Surgery Database		Vers	ion: 2.81
Long Name: Post-Op-Ultra Filtration		SeqNo:	4885
Short Name: CUltraFil		Core:	Yes
Section Name: Postoperative Events		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether patient required Ultra	a filtration.		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: In Hospital Post-Op Events	Format:	Text (categorical values specified	by STS)
ParentShortName: Complics	DataLength:		
ParentValue: = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
Long Name: Post-Op-Vasc-Iliac/Fem Dissect		SeqNo:	4890
Short Name: CVallFem		Core:	
Section Name: Postoperative Events		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether the patient had a diss	ection occurring i	in the iliac or femoral arteries.	
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: In Hospital Post-Op Events	Format:	Text (categorical values specified)	by STS)
ParentShortName: Complics	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			

STS Adult Cardiac Surgery Database		Version: 2	2.81
Long Name: Post-Op-Vasc-Acute Limb Isch		SeqNo:	4895
Short Name: CVaLbIsc		Core:	Yes
Section Name: Postoperative Events		Harvest:	Yes
DBTableName AdultData			
<i>Definition:</i> Indicate whether the patient had any co or lower limb ischemia.	omplication producing limb ische	mia. This may include u	pper
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: In Hospital Post-Op Events	Format: Text (categoric	al values specified by S	ΓS)
ParentShortName: Complics	DataLength:		
<i>ParentValue:</i> = "Yes"	Data Source: User		
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
Long Name:Post-Op-Rhythm Disturbance RequiShort Name:CRhythmDisSection Name:Postoperative Events	ring Perm Device	SeqNo: Core: Harvest:	4900 Yes Yes
•		nurvesi.	105
<i>DBTableName</i> AdultData <i>Definition:</i> Indicate whether patient developed a n	aw duerbythmic requiring insertio	on of a normanant davia	
Do not code these device insertions in			
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: In Hospital Post-Op Events	Format: Text (categoric	al values specified by S	ΓS)
ParentShortName: Complics	DataLength:		
<i>ParentValue:</i> = "Yes"			
	Data Source: User		
ParentHarvestCodes: 1	Data Source: User		
ParentHarvestCodes: 1 Harvest Codes:	Data Source: User		
	Data Source: User		
Harvest Codes:	Data Source: User		
Harvest Codes: <u>Code:</u> <u>Value:</u>	Data Source: User		
Harvest Codes: <u>Code:</u> <u>Value:</u> 1 Pacemaker	Data Source: User		
Harvest Codes: <u>Code:</u> Value: 1 Pacemaker 2 ICD	Data Source: User		

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Post-Op-Other-Card Arrest		SeqNo: 4905
Short Name: COtArrst		Core: Yes
Section Name: Postoperative Events		Harvest: Yes
DBTableName AdultData		
Definition: Indicate whether the patient had an act a. Ventricular fibrillation b. Rapid ventricular tachycardia with h c. Asystole d. ICD shocks		
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: In Hospital Post-Op Events	Format:	Text (categorical values specified by STS)
ParentShortName: Complics	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: Post-Op-Other-Anticoag Event		SeqNo: 4910
Short Name: COtCoag		Core: Yes
Section Name: Postoperative Events		Harvest: Yes
DBTableName AdultData		
Definition: Indicate whether the patient had bleed anticoagulant therapy postoperatively. This may include patients who experie Heparin Induced Thrombocytopenia (I	ence Disseminated	and/or embolic events related to d Intravascular Coagulopathy (DIC) or
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: In Hospital Post-Op Events	Format:	Text (categorical values specified by STS)
ParentShortName: Complics	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
ParentHarvestCodes: 1 Harvest Codes:		
Harvest Codes:		

STS Adult Cardiac Surgery Database		Version: 2.8
Long Name: Post-Op-Other-Tamponade Non-Sur	gical Interventio	n <i>SeqNo:</i> 49
Short Name: COtTamp		Core: Y
Section Name: Postoperative Events		Harvest: Y
DBTableName AdultData		
<i>Definition:</i> Indicate whether the patient had fluid is requiring intervention other than return This should be documented by either: 1. Echo showing pericardial fluid and s 2. Systemic hypotension due to pericard	ning to the operat	de such as right heart compromise, or
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: In Hospital Post-Op Events	Format:	Text (categorical values specified by STS)
ParentShortName: Complics	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: Post-Op-Other-GI Event		SeqNo: 49
Short Name: COtGI		Core: Y
Section Name: Postoperative Events		Harvest: Y
DBTableName AdultData		
 Definition: Indicate whether the patient had a postellimited to: a. GI bleeding requiring transfusion b. Pancreatitis with abnormal amylase/ c. Cholecystitis requiring cholecystected d. Mesenteric ischemia requiring explose e. Hepatic failure f. Prolonged ileus g. Clostridium difficile 	lipase requiring r omy or drainage	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: In Hospital Post-Op Events	Format:	Text (categorical values specified by STS)
	DataLength:	
ParentShortName: Complics		I I
ParentShortName:ComplicsParentValue:= "Yes"	Data Source:	User
	Data Source:	User
<i>ParentValue:</i> = "Yes"	Data Source:	User

STS Adult Cardiac Surgery Database		Version: 2.81
1 Yes		
2 No		
Long Name: Post-Op-Other-Multi Sys Fail		SeqNo: 492
Short Name: COtMSF		<i>Core:</i> Ye
Section Name: Postoperative Events		Harvest: Ye
DBTableName AdultData		
Definition: Indicate whether the patient had two o	r more major org	an systems suffer compromised functions.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: In Hospital Post-Op Events	Format:	Text (categorical values specified by STS)
ParentShortName: Complics	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
$\frac{1}{1}$ Yes		
2 No		
Long Name: Post-Op-Other-A Fib		<i>SeqNo:</i> 4930
Short Name: COtAFib		<i>Core:</i> Ye
Section Name: Postoperative Events		Harvest: Ye
DBTableName AdultData		
<i>Definition:</i> Indicate whether the patient experience patients who were in afib at the start of		on/flutter (AF) requiring treatment. Exclude
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: In Hospital Post-Op Events	Format:	Text (categorical values specified by STS)
ParentShortName: Complics	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Post-Op-Ao Dissect			SeqNo:	4935
Short Name: CVaAoDis			Core:	Ye
Section Name: Postoperative Events			Harvest:	Ye
DBTableName AdultData				
Definition: Indicate whether the patient had a diss	ection occurring	in any part of the aorta	1.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: In Hospital Post-Op Events	Format:	Text (categorical val	ues specified by	STS)
ParentShortName: Complics	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
A .) I				
2 No Long Name: Post-Op-Recurrent Laryngeal Nerve	- Injury		SeqNo:	494(
	Injury		SeqNo: Core: Harvest:	494(Yes Yes
Long Name: Post-Op-Recurrent Laryngeal Nerve Short Name: RecLarynNrvInj	9 Injury		Core:	Yes
Long Name: Post-Op-Recurrent Laryngeal Nerve Short Name: RecLarynNrvInj Section Name: Postoperative Events		ngeal nerve injury, (e.	Core: Harvest:	Ye
Long Name:Post-Op-Recurrent Laryngeal NerveShort Name:RecLarynNrvInjSection Name:Postoperative EventsDBTableNameAdultDataDefinition:Indicate whether patient has symptoms		ngeal nerve injury, (e.	Core: Harvest:	Ye
Long Name:Post-Op-Recurrent Laryngeal NerveShort Name:RecLarynNrvInjSection Name:Postoperative EventsDBTableNameAdultDataDefinition:Indicate whether patient has symptoms difficulty speaking, etc.).LowValue:UsualRangeLow:		ngeal nerve injury, (e.	Core: Harvest:	Ye
Long Name:Post-Op-Recurrent Laryngeal NerveShort Name:RecLarynNrvInjSection Name:Postoperative EventsDBTableNameAdultDataDefinition:Indicate whether patient has symptoms difficulty speaking, etc.).LowValue:UsualRangeLow:		ngeal nerve injury, (e. Text (categorical val	Core: Harvest: g., hoarseness,	Ye: Ye:
Long Name: Post-Op-Recurrent Laryngeal Nerve Short Name: RecLarynNrvInj Section Name: Postoperative Events DBTableName AdultData Definition: Indicate whether patient has symptoms difficulty speaking, etc.). LowValue: UsualRangeLow: HighValue: UsualRangeHigh:	s of recurrent lary		Core: Harvest: g., hoarseness,	Ye Ye
Long Name: Post-Op-Recurrent Laryngeal Nerve Short Name: RecLarynNrvInj Section Name: Postoperative Events DBTableName AdultData Definition: Indicate whether patient has symptoms difficulty speaking, etc.). LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: In Hospital Post-Op Events	s of recurrent lary Format:	Text (categorical val	Core: Harvest: g., hoarseness,	Ye Ye
Long Name: Post-Op-Recurrent Laryngeal Nerver Short Name: RecLarynNrvInj Section Name: Postoperative Events DBTableName AdultData Definition: Indicate whether patient has symptoms difficulty speaking, etc.). LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: In Hospital Post-Op Events ParentShortName: Complics ParentValue: = "Yes"	s of recurrent lary Format: DataLength:	Text (categorical val	Core: Harvest: g., hoarseness,	Ye: Ye:
Long Name: Post-Op-Recurrent Laryngeal Nerver Short Name: RecLarynNrvInj Section Name: Postoperative Events DBTableName AdultData Definition: Indicate whether patient has symptoms difficulty speaking, etc.). LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: In Hospital Post-Op Events ParentShortName: Complics ParentValue: = "Yes"	s of recurrent lary Format: DataLength:	Text (categorical val	Core: Harvest: g., hoarseness,	Ye: Ye:
Long Name: Post-Op-Recurrent Laryngeal Nerver Short Name: RecLarynNrvInj Section Name: Postoperative Events DBTableName AdultData Definition: Indicate whether patient has symptoms difficulty speaking, etc.). LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: In Hospital Post-Op Events ParentShortName: Complics ParentValue: = "Yes" ParentHarvestCodes: 1	s of recurrent lary Format: DataLength:	Text (categorical val	Core: Harvest: g., hoarseness,	Ye: Ye:
Long Name: Post-Op-Recurrent Laryngeal Nerve Short Name: RecLarynNrvInj Section Name: Postoperative Events DBTableName AdultData Definition: Indicate whether patient has symptoms difficulty speaking, etc.). LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: In Hospital Post-Op Events ParentShortName: Complics ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes: 1	s of recurrent lary Format: DataLength:	Text (categorical val	Core: Harvest: g., hoarseness,	Ye: Ye:

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Post-Op-Phrenic Nerve Injury		<i>SeqNo:</i> 4945
Short Name: PhrenNrvInj		Core: Yes
Section Name: Postoperative Events		Harvest: Yes
DBTableName AdultData		
<i>Definition:</i> Indicate whether patient has symptom diaphragm, etc.).	s of phrenic nerve	e injury, (e.g., immobility or elevation of the
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: In Hospital Post-Op Events	Format:	Text (categorical values specified by STS)
ParentShortName: Complics	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
Long Name: Post-Op-Other-Other		<i>SeqNo:</i> 4950
Short Name: COtOther		<i>Core:</i> Yes
Section Name: Postoperative Events		Harvest: Yes
DBTableName AdultData		
		not identified in the categories above yet
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: In Hospital Post-Op Events	Format:	Text (categorical values specified by STS)
	DataLength:	
ParentShortName: Complics	DuiuLengin.	
ParentShortName: Complics ParentValue: = "Yes"	Data Source:	User
1	-	User
<i>ParentValue:</i> = "Yes"	-	User
ParentValue: = "Yes" ParentHarvestCodes: 1	-	User
ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes:	-	User

STS Adult Cardiac Surgery Database		Versi	on: 2.81
Long Name: Post-Op-Infect-Deep Sternal Infection	1	SeqNo:	4955
Short Name: CIStDeep		Core:	No
Section Name: Postoperative Events		Harvest:	No
DBTableName AdultData			
 Definition: Indicate whether the patient, within 30 d muscle, bone, and/or mediastinum REQU Must have ALL of the following conditional terms 1. Wound opened with excision of tissu 2. Positive culture unless patient on ant 3. Treatment with antibiotics beyond performance of the second second	UIRING OPER ions: ie (I&D) or re-(ibiotics at time	ATIVE INTERVENTION. exploration of mediastinum of culture or no culture obtained	olving
	enoperative pro	phylaxis	
LowValue: UsualRangeLow:			
HighValue:UsualRangeHigh:Parent Long Name:Post-Op-Surgical Site Infection	Format	Text (categorical values specified b	(2T2 v
ParentShortName: SurSInf		Text (categorical values specified o	y 515)
ParentValue: = "Yes"	DataLength: Data Source:	User	
	Dala Source.	0.501	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			
Long Name: Post-Op-Sternal-Mediastinitis		SeqNo:	4960
Short Name: CSternalMedia		Core:	No
Section Name: Postoperative Events		Harvest:	No
DBTableName AdultData			
Definition: Indicate whether the patient developed n	nediastinitis wi	thin 30 days of the surgical procedure	e.
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:		T	(TTC)
Parent Long Name: Post-Op-Surgical Site Infection		Text (categorical values specified b	y 515)
ParentShortName: SurSInf ParentValue: = "Yes"	DataLength:	Llass	
	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

			Versio	n: 2.81
Long Name: Post-Op-Sternal-Mediastinitis - Date	of Diagnosis		SeqNo:	4965
Short Name: CSternalMediaDtDiag			Core:	No
Section Name: Postoperative Events			Harvest:	No
DBTableName AdultData				
Definition: Indicate the date one which the mediast	initis was diagr	nosed.		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Post-Op-Sternal-Mediastinitis	Format:	Date mm/dd/yyyy		
ParentShortName: CSternalMedia	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source.	: User		
ParentHarvestCodes: 1				
Long Name: Post-Op-Sternal-Mediastinitis - Secon Packing/Irrigation	ndary Procedur	e - Open With	SeqNo:	4970
Short Name: CSternalMediaSPOpen			Core:	No
Section Name: Postoperative Events			Harvest:	No
DBTableName AdultData				
<i>Definition:</i> Indicate whether the secondary procedu incision open with packing/irrigation.	ire performed to	o treat the mediastinitis	included leavin	g the
	are performed to	o treat the mediastinitis	included leavin	g the
incision open with packing/irrigation.	ire performed to	o treat the mediastinitis	included leavin	g the
incision open with packing/irrigation. LowValue: UsualRangeLow:	ire performed to <i>Format:</i>	o treat the mediastinitis Text (categorical val		-
incision open with packing/irrigation. LowValue: UsualRangeLow: HighValue: UsualRangeHigh:		Text (categorical val		-
incision open with packing/irrigation. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Post-Op-Sternal-Mediastinitis	Format:	Text (categorical val		-
incision open with packing/irrigation. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Post-Op-Sternal-Mediastinitis ParentShortName: CSternalMedia	Format: DataLength:	Text (categorical val		-
incision open with packing/irrigation. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Post-Op-Sternal-Mediastinitis ParentShortName: CSternalMedia ParentValue: = "Yes"	Format: DataLength:	Text (categorical val		-
incision open with packing/irrigation. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Post-Op-Sternal-Mediastinitis ParentShortName: CSternalMedia ParentValue: = "Yes" ParentHarvestCodes: 1	Format: DataLength:	Text (categorical val		-
incision open with packing/irrigation. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Post-Op-Sternal-Mediastinitis ParentShortName: CSternalMedia ParentValue: = "Yes" ParentHarvestCodes: 1 Harvest Codes:	Format: DataLength:	Text (categorical val		-

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Post-Op-Sternal-Mediastinitis - Secon	ndary Procedure	e - Wound Vac	SeqNo:	4975
Short Name: CSternalMediaSPWVa c			Core:	No
Section Name: Postoperative Events			Harvest:	No
DBTableName AdultData				
Definition: Indicate whether the secondary procedu	re performed to	treat the mediastinitis	included wound	d vac.
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Post-Op-Sternal-Mediastinitis	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: CSternalMedia	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Post-Op-Sternal-Mediastinitis - Secon	ndary Procedure	e - Muscle Flap	SeqNo:	4980
Short Name: CSternalMediaSPMus cle			Core:	No
Section Name: Postoperative Events			Harvest:	No
DBTableName AdultData				
Definition: Indicate whether the secondary procedu	re performed to	treat the mediastinitis	included muscl	e flap.
LowValue: UsualRangeLow:				•
HighValue: UsualRangeHigh:				
Parent Long Name: Post-Op-Sternal-Mediastinitis	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: CSternalMedia	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Post-Op-Sternal-Mediastinitis - Secon	dary Procedure	- Omental Flap	SeqNo:	4985
Short Name: CSternalMediaSPOme ntal			Core:	No
Section Name: Postoperative Events			Harvest:	No
DBTableName AdultData				
Definition: Indicate whether the secondary procedur	re performed to	treat the mediastinitis	included omen	tal flap.
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Post-Op-Sternal-Mediastinitis	Format:	Text (categorical value	ues specified by	v STS)
ParentShortName: CSternalMedia	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
	1.1			
Long Name: Post-Op-Infect-Conduit Harvest or Ca	innulation Site		SeqNo:	4990
Short Name: CILeg			Core:	No
Section Name: Postoperative Events			Harvest:	No
DBTableName AdultData		1 1 1	1	
<i>Definition:</i> Indicate whether the patient had an infect	ction involving	a conduit narvest or ca	nnulation site	
Must have ALL of the following conditi				
 Wound opened with excision of tissu Positive culture unless patient on ant 		of culture or no cultur	e obtained	
3. Treatment with antibiotics beyond pe				
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Post-Op-Surgical Site Infection	Format:	Text (categorical value	ues specified by	v STS)
ParentShortName: SurSInf	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Post-Op-Wound Intervention - Open V	With Packing/In	rigation	SeqNo:	4995
Short Name: WndIntOpen			Core:	No
Section Name: Postoperative Events			Harvest:	No
DBTableName AdultData				
Definition: Indicate whether wound intervention req than sternotomy included leaving the inc			lure for wound	s other
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Post-Op-Surgical Site Infection	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: SurSInf	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
$\frac{1}{1 \text{ Yes}}$				
2 No				
Long Name: Post-Op-Wound Intervention - Wound	l Vac		SeqNo:	5000
Short Name: WndIntWVac	u vac		Core:	No
Section Name: Postoperative Events			Harvest:	No
DBTableName AdultData				
Definition: Indicate whether wound intervention req	uired within 3() days following proced	lure for wound	s other
than sternotomy included wound vac.				5 ourer
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Post-Op-Surgical Site Infection	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: SurSInf	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				

STS Adult Card	liac Surgery Database	Version	n: 2.81
Long Name:	Mort-Mortality	SeqNo:	5005
Short Name:	Mortalty	Core:	Yes
Section Name.	Mortality	Harvest:	Yes

DBTableName AdultData

Definition: Indicate whether the patient has been declared dead within this hospitalization (admission to acute care discharge even if transferred to another hospital) or any time after discharge from this hospitalization. This includes all causes of death, including those causes clearly unrelated to the operation.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			

Harvest Codes:

Code: Value: 1 Yes 2 No

Long Name:	Mort-DC Status	SeqNo:	5010
Short Name:	MtDCStat	Core:	Yes
Section Name:	Mortality	Harvest:	Yes

DBTableName AdultData

Definition: Indicate whether the patient was alive or dead at discharge from the hospitalization in which surgery occurred. Include patients who died after transfer to another acute care hospital.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:		Format:	Text (categorical values specified by STS)
ParentShortName:		DataLength:	
ParentValue:		Data Source:	User
ParentHarvestCodes:			
Harvest Codes:			
Code:	Value:		
1	Alive		
2	Dead		

STS Adult Cardiac Surg	ery Database		Versior	n: 2.81
Long Name: Mort-3	0d Status		SeqNo:	501:
Short Name: Mt30S	tat		Core:	Ye
Section Name: Mortali	ty		Harvest:	Ye
DBTableName AdultI	Data			
Definition: Indicate v	whether the patient was alive or	dead at 30 day	s post-surgery (whether in hospital or	not).
LowValue:	UsualRangeLow:			
HighValue:	UsualRangeHigh:			
Parent Long Name:		Format:	Text (categorical values specified by	STS)
ParentShortName:		DataLength:		
ParentValue:		Data Source:	User	
ParentHarvestCodes:				
Harvest Codes:				
	Value:			
1	Alive			
2	Dead			
3	Unknown			
<i>Definition:</i> Indicate the LowValue:	he primary method used to veri UsualRangeLow:	fy the patient's	30-day mortality status.	
HighValue:	UsualRangeHigh:			
Parent Long Name:	0 0	Format:	Text (categorical values specified by	STS)
ParentShortName:		DataLength:		
ParentValue:		Data Source:	User	
ParentHarvestCodes:				
Harvest Codes:				
Code:	Value:			
1	Phone call to patient or family			
2	Letter from medical provider			
3	Evidence of life in medical record (lab tests, cardiac rehab visits, etc.)			
4	Office visit to surgeon more than 30 days after procedure			
5	Social Security Death Master			

6 Other

Long Name:	Mort-Op Death	SeqNo:	5025
Short Name:	MtOpD	Core:	Yes
Section Name.	Mortality	Harvest:	Yes

DBTableName AdultData

Definition: Operative Mortality includes: (1) all deaths, regardless of cause, occurring during the hospitalization in which the operation was performed, even if after 30 days (including patients transferred to other acute care facilities); and (2) all deaths, regardless of cause, occurring after discharge from the hospital, but before the end of the thirtieth postoperative day.

LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Mort-Mortality	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: Mortalty	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Mort-Date			SeqNo:	5030
Short Name: MtDate			Core:	Yes
Section Name: Mortality			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the date the patient was declar	ed dead.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Mort-Mortality	Format:	Date mm/dd/yyyy		
ParentShortName: Mortalty	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Mort-Location	<i>SeqNo:</i> 5035
Short Name: MtLocatn	Core: Yes
Section Name: Mortality	Harvest: Yes
DBTableName AdultData	

Definition: Indicate the patient's location at time of death.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Mort-Mortality	Format:	Text (categorical values specified by STS)
ParentShortName:	Mortalty	DataLength:	
ParentValue:	= "Yes"	Data Source:	User
	1		

ParentHarvestCodes: 1

Harvest Codes:

Code: Value:

- 1 Operating Room (OR) During Initial Surgery
- 2 Hospital (Other Than Operating Room)
- 3 Home
- 7 Extended Care Facility
- 8 Hospice
- 9 Acute Rehabilitation
- 5 Operating Room (OR) During Reoperation
- 6 Unknown
- 10 Other

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Mort-Prim Cause		SeqNo: 504
Short Name: MtCause		Core: Ye
Section Name: Mortality		Harvest: Ye
DBTableName AdultData		
Definition: Indicate the PRIMARY cause of dea to death.	ath, i.e., the first sig	gnificant abnormal event which ultimately lec
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Mort-Mortality	Format:	Text (categorical values specified by STS)
ParentShortName: Mortalty	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source.	: User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Cardiac		
2 Neurologic		
3 Renal		
4 Vascular		
5 Infection		
6 Pulmonary		
700 Unknown		
777 Other		
Long Name: Discharge Location		SeqNo: 504
Short Name: DisLoctn		Core: Ye
Section Name: Discharge		Harvest: Ye
DBTableName AdultData		
Definition: Indicate the location to where the pa	tient was discharge	ed.
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Mort-DC Status	Format:	Text (categorical values specified by STS)
ParentShortName: MtDCStat	DataLength:	
<i>ParentValue:</i> = "Alive"	Data Source.	: User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Home		

Care Unit/Rehab		
3 Other acute care hospital		
4 Nursing Home		
•		
5 Hospice		
6 Left AMA		
777 Other		
Long Name: Cardiac Rehabilitation Referral		<i>SeqNo:</i> 5050
Short Name: CardRef		Core: Yes
Section Name: Discharge		Harvest: Yes
DBTableName AdultData		
		cted with the patient (by physician, nurse, or
appointment made.	ce of joining a c	cardiac rehabilitation program, or an
	ce of joining a c	cardiac rehabilitation program, or an
appointment made.	ce of joining a c	cardiac rehabilitation program, or an
appointment made. LowValue: UsualRangeLow:	Format:	cardiac rehabilitation program, or an Text (categorical values specified by STS)
appointment made. LowValue: UsualRangeLow: HighValue: UsualRangeHigh:		
appointment made. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Mort-DC Status	Format:	Text (categorical values specified by STS)
appointment made. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Mort-DC Status ParentShortName: MtDCStat	Format: DataLength:	Text (categorical values specified by STS)
appointment made.LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Mort-DC StatusParentShortName:MtDCStatParentValue:= "Alive"	Format: DataLength:	Text (categorical values specified by STS)
appointment made.LowValue:UsualRangeLow:HighValue:UsualRangeHigh:Parent Long Name:Mort-DC StatusParentShortName:MtDCStatParentValue:= "Alive"ParentHarvestCodes:1	Format: DataLength:	Text (categorical values specified by STS)
appointment made. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Mort-DC Status ParentShortName: MtDCStat ParentValue: = "Alive" ParentHarvestCodes: 1 Harvest Codes:	Format: DataLength:	Text (categorical values specified by STS)
appointment made. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Mort-DC Status ParentShortName: MtDCStat ParentValue: = "Alive" ParentHarvestCodes: 1 Harvest Codes: 1 Code: Value:	Format: DataLength:	Text (categorical values specified by STS)

STS Adult Cardiac Surgery Database	Versior	า: 2.81
Long Name: Smoking Cessation Counseling	SeqNo:	5055
Short Name: SmokCoun	Core:	Yes
Section Name: Discharge	Harvest:	Yes

DBTableName AdultData

Definition: Indicate whether, prior to discharge from the acute care facility, the patient received smoking cessation counseling. Please select "Not Applicable" for those patients with no prior history of smoking or remote (more than 1 year) history.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Mort-DC Status	Format:	Text (categorical values specified by STS)
ParentShortName:	MtDCStat	DataLength:	
ParentValue:	= "Alive"	Data Source:	User
ParentHarvestCode	<i>s</i> : 1		
Harvest Code	25:		
Cod	le: Value:		

	value.
1	Yes
2	No
3	Not Applicable

Long Name:	Aspirin - Discharge	SeqNo:	5060
Short Name:	DCASA	Core:	Yes
Section Name:	Discharge	Harvest:	Yes

DBTableName AdultData

Definition: Indicate whether or not the patient was discharged from facility on Aspirin, or if it was contraindicated. The contraindication must be documented in the medical record by a physician, nurse practitioner, pharmacist or physician assistant.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Mort-DC Status	Format:	Text (categorical values specified by STS)
ParentShortName:	MtDCStat	DataLength:	
ParentValue:	= "Alive"	Data Source:	User
ParentHarvestCode	s: 1		
Harvest Code	28:		
Cod	le: Value:		

1 Yes

. ...

2 No

3 Contraindicated

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: P2Y12 - Discharge		<i>SeqNo:</i> 5065
Short Name: DCP2Y12		Core: Yes
Section Name: Discharge		Harvest: Yes
DBTableName AdultData		
	n must be documen	facility on a P2Y12 antagonist, or if it was ted in the medical record by a physician,
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Mort-DC Status	Format:	Text (categorical values specified by STS)
ParentShortName: MtDCStat	DataLength:	
<i>ParentValue:</i> = "Alive"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
<u>Code:</u> <u>Value:</u>		
1 Yes		
2 No		
3 Contraindicated		
Long Name: ADP Inhibitors - Discharge		<i>SeqNo:</i> 5070
Short Name: DCADP		Core: Yes
Section Name: Discharge		
section nume. Discharge		Harvest: Yes
DBTableName AdultData		Harvest: Yes
DBTableName AdultData Definition: Indicate whether or not the patient w	on must be documen	Harvest: Yes facility on an ADP inhibitor, or if it was ted in the medical record by a physician,
DBTableName AdultData Definition: Indicate whether or not the patient w contraindicated. The contraindicatio	on must be documen	facility on an ADP inhibitor, or if it was
DBTableName AdultData Definition: Indicate whether or not the patient w contraindicated. The contraindicatio nurse practitioner, pharmacist or phy	on must be documen	facility on an ADP inhibitor, or if it was
DBTableName AdultData Definition: Indicate whether or not the patient we contraindicated. The contraindication nurse practitioner, pharmacist or physical contrainer. LowValue: UsualRangeLow:	on must be documen	facility on an ADP inhibitor, or if it was
DBTableName AdultData Definition: Indicate whether or not the patient we contraindicated. The contraindication nurse practitioner, pharmacist or physical contrained and the contrained	n must be documen ysician assistant.	facility on an ADP inhibitor, or if it was ted in the medical record by a physician,
DBTableName AdultData Definition: Indicate whether or not the patient we contraindicated. The contraindication nurse practitioner, pharmacist or physical contrainer. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Mort-DC Status	n must be documen ysician assistant. <i>Format:</i>	facility on an ADP inhibitor, or if it was ted in the medical record by a physician, Text (categorical values specified by STS)
DBTableName AdultData Definition: Indicate whether or not the patient we contraindicated. The contraindication nurse practitioner, pharmacist or physical structures and the contraindicate of	n must be documen ysician assistant. Format: DataLength:	facility on an ADP inhibitor, or if it was ted in the medical record by a physician, Text (categorical values specified by STS)
DBTableName AdultData Definition: Indicate whether or not the patient we contraindicated. The contraindication nurse practitioner, pharmacist or physical contrainer. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Mort-DC Status ParentShortName: MtDCStat ParentValue: = "Alive" ParentHarvestCodes: 1	n must be documen ysician assistant. Format: DataLength:	facility on an ADP inhibitor, or if it was ted in the medical record by a physician, Text (categorical values specified by STS)
DBTableName AdultData Definition: Indicate whether or not the patient we contraindicated. The contraindication nurse practitioner, pharmacist or physical contraindicated. The contraindication nurse practitioner, pharmacist or physical contrainer. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Mort-DC Status ParentShortName: MtDCStat ParentValue: = "Alive" ParentHarvestCodes: 1 Harvest Codes: 1	n must be documen ysician assistant. Format: DataLength:	facility on an ADP inhibitor, or if it was ted in the medical record by a physician, Text (categorical values specified by STS)
DBTableName AdultData Definition: Indicate whether or not the patient we contraindicated. The contraindication nurse practitioner, pharmacist or physical contrainer. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Mort-DC Status ParentShortName: MtDCStat ParentValue: = "Alive" ParentHarvestCodes: 1	n must be documen ysician assistant. Format: DataLength:	facility on an ADP inhibitor, or if it was ted in the medical record by a physician, Text (categorical values specified by STS)
DBTableName AdultData Definition: Indicate whether or not the patient we contraindicated. The contraindication nurse practitioner, pharmacist or physical contraindicated. The contraindication nurse practitioner, pharmacist or physical contrainer. LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Mort-DC Status ParentShortName: MtDCStat ParentHarvestCodes: 1 Harvest Codes: 1 Example: Value:	n must be documen ysician assistant. Format: DataLength:	facility on an ADP inhibitor, or if it was ted in the medical record by a physician, Text (categorical values specified by STS)

STS Adult Cardiac Surgery Database		Vers	ion: 2.81
Long Name: Other Antiplatelet - Discharge		SeqNo:	5075
Short Name: DCOthAntiplat		Core:	Yes
Section Name: Discharge		Harvest:	Yes
DBTableName AdultData			
Definition: Indicate whether or not the patient was medication, or if it was contraindicated record by a physician, nurse practitione	l. The contraindio	cation must be documented in the m	edical
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name: Mort-DC Status	Format:	Text (categorical values specified	by STS)
ParentShortName: MtDCStat	DataLength:		
<i>ParentValue:</i> = "Alive"	Data Source:	User	
ParentHarvestCodes: 1			
Harvest Codes:			
Code: Value:			
<u>couc.</u> value.			
1 Ves			
1 Yes			
2 No			
2 No3 Contraindicated	rge	SeqNo:	5080
2 No 3 Contraindicated Long Name: Direct Thrombin Inhibitors - Dischar	rge	SeqNo: Core:	
2 No 3 Contraindicated Long Name: Direct Thrombin Inhibitors - Dischar Short Name: DCDirThromIn	rge	-	Yes
2 No 3 Contraindicated Long Name: Direct Thrombin Inhibitors - Dischar	rge	Core:	Yes
2 No 3 Contraindicated Long Name: Direct Thrombin Inhibitors - Dischar Short Name: DCDirThromIn Section Name: Discharge DBTableName AdultData	discharged from ation must be do	Core: Harvest: n facility on a direct thrombin inhibit cumented in the medical record by a	Yes Yes
2 No 3 Contraindicated Long Name: Direct Thrombin Inhibitors - Dischar Short Name: DCDirThromIn Section Name: Discharge DBTableName AdultData Definition: Indicate whether or not the patient was it was contraindicated. The contraindic physician, nurse practitioner, pharmaci	discharged from ation must be do	Core: Harvest: n facility on a direct thrombin inhibit cumented in the medical record by a	Yes Yes
2 No 3 Contraindicated Long Name: Direct Thrombin Inhibitors - Dischar Short Name: DCDirThromIn Section Name: Discharge DBTableName AdultData Definition: Indicate whether or not the patient was it was contraindicated. The contraindic physician, nurse practitioner, pharmaci LowValue: UsualRangeLow:	discharged from ation must be do	Core: Harvest: n facility on a direct thrombin inhibit cumented in the medical record by a	Yes Yes
2 No 3 Contraindicated Long Name: Direct Thrombin Inhibitors - Dischar Short Name: DCDirThromIn Section Name: Discharge DBTableName AdultData Definition: Indicate whether or not the patient was it was contraindicated. The contraindic physician, nurse practitioner, pharmaci LowValue: UsualRangeLow: HighValue: UsualRangeHigh:	discharged from ation must be do	Core: Harvest: n facility on a direct thrombin inhibit cumented in the medical record by a	Yes Yes tor, or if
2 No 3 Contraindicated Long Name: Direct Thrombin Inhibitors - Dischar Short Name: DCDirThromIn Section Name: Discharge DBTableName AdultData Definition: Indicate whether or not the patient was it was contraindicated. The contraindic physician, nurse practitioner, pharmaci LowValue: UsualRangeLow:	discharged from ation must be do st or physician a	Core: Harvest: a facility on a direct thrombin inhibit cumented in the medical record by a ssistant.	Yes Yes
2 No 3 Contraindicated Long Name: Direct Thrombin Inhibitors - Dischar Short Name: DCDirThromIn Section Name: Discharge DBTableName AdultData Definition: Indicate whether or not the patient was it was contraindicated. The contraindic physician, nurse practitioner, pharmaci LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Mort-DC Status	discharged from ation must be do st or physician a <i>Format:</i>	Core: Harvest: n facility on a direct thrombin inhibit cumented in the medical record by a ssistant. Text (categorical values specified	Yes Yes

Harvest Codes:

Code: Value:

1 Yes

2 No

3 Contraindicated

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Warfarin (Coumadin) - Discharge		SeqNo: 5085
Short Name: DCCoum		Core: Yes
Section Name: Discharge		Harvest: Yes
DBTableName AdultData		
Definition: Indicate whether or not the patient was was contraindicated. The contraindica physician, nurse practitioner, pharmac	ation must be docu	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Mort-DC Status	Format:	Text (categorical values specified by STS)
ParentShortName: MtDCStat	DataLength:	
<i>ParentValue:</i> = "Alive"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Yes		
2 No		
3 Contraindicated		
Long Name: Factor Xa Inhibitors - Discharge		SeqNo: 5090
		C V
Short Name: DCFactorXa		Core: Yes
Short Name: DCFactorXa Section Name: Discharge		
Section Name: Discharge DBTableName AdultData Definition: Indicate whether or not the patient wa	must be documen	
Section Name: Discharge DBTableName AdultData Definition: Indicate whether or not the patient wa contraindicated. The contraindication	must be documen	Harvest: Yes facility on a factor Xa inhibitor, or if it was
Section Name: Discharge DBTableName AdultData Definition: Indicate whether or not the patient wa contraindicated. The contraindication nurse practitioner, pharmacist or phys	must be documen	<i>Harvest:</i> Yes facility on a factor Xa inhibitor, or if it was ted in the medical record by a physician,
Section Name: Discharge DBTableName AdultData Definition: Indicate whether or not the patient was contraindicated. The contraindication nurse practitioner, pharmacist or physe LowValue: UsualRangeLow: HighValue: UsualRangeHigh:	must be documen	Harvest: Yes facility on a factor Xa inhibitor, or if it was
Section Name: Discharge DBTableName AdultData Definition: Indicate whether or not the patient was contraindicated. The contraindication nurse practitioner, pharmacist or physe LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Mort-DC Status ParentShortName: MtDCStat	must be documen sician assistant. <i>Format:</i> <i>DataLength:</i>	Harvest: Yes facility on a factor Xa inhibitor, or if it was ted in the medical record by a physician, Text (categorical values specified by STS)
Section Name: Discharge DBTableName AdultData Definition: Indicate whether or not the patient was contraindicated. The contraindication nurse practitioner, pharmacist or physical contrainer in the pharmacist or physical contrainer. Advance contrainer is the pharmacist or physical contrainer. In the pharmacist or physica	must be documen sician assistant. Format:	Harvest: Yes facility on a factor Xa inhibitor, or if it was ted in the medical record by a physician, Text (categorical values specified by STS)
Section Name: Discharge DBTableName AdultData Definition: Indicate whether or not the patient was contraindicated. The contraindication nurse practitioner, pharmacist or physe LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Mort-DC Status ParentShortName: MtDCStat	must be documen sician assistant. <i>Format:</i> <i>DataLength:</i>	Harvest: Yes facility on a factor Xa inhibitor, or if it was ted in the medical record by a physician, Text (categorical values specified by STS)
Section Name: Discharge DBTableName AdultData Definition: Indicate whether or not the patient was contraindicated. The contraindication nurse practitioner, pharmacist or physical contrainer in the patient was contrained by the patient was contrespecient. The patient was contrained by the patient	must be documen sician assistant. <i>Format:</i> <i>DataLength:</i>	Harvest: Yes facility on a factor Xa inhibitor, or if it was ted in the medical record by a physician, Text (categorical values specified by STS)
Section Name: Discharge DBTableName AdultData Definition: Indicate whether or not the patient was contraindicated. The contraindication nurse practitioner, pharmacist or physical contraindicates and the second	must be documen sician assistant. <i>Format:</i> <i>DataLength:</i>	Harvest: Yes facility on a factor Xa inhibitor, or if it was ted in the medical record by a physician, Text (categorical values specified by STS)
Section Name: Discharge DBTableName AdultData Definition: Indicate whether or not the patient was contraindicated. The contraindication nurse practitioner, pharmacist or physical contraindicated. The contraindicated contraindicated contraindicated. The contraindication nurse practitioner, pharmacist or physical contraindicated. The contraindication nurse practitioner, pharmacist or physical contraindicated. The contraindicated contraindicated. The contraindication nurse practitioner, pharmacist or physical contraindicated. The contraindicated contraindicated contraindicated. The contraindicated contraindicate	must be documen sician assistant. <i>Format:</i> <i>DataLength:</i>	Harvest: Yes facility on a factor Xa inhibitor, or if it was ted in the medical record by a physician, Text (categorical values specified by STS)
Section Name: Discharge DBTableName AdultData Definition: Indicate whether or not the patient was contraindicated. The contraindication nurse practitioner, pharmacist or physe LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Mort-DC Status ParentShortName: MtDCStat ParentHarvestCodes: 1 Harvest Codes: <u>Code:</u> Value:	must be documen sician assistant. <i>Format:</i> <i>DataLength:</i>	Harvest: Yes facility on a factor Xa inhibitor, or if it was ted in the medical record by a physician, Text (categorical values specified by STS)

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Other Anticoagulant - Discharge			SeqNo:	5095
Short Name: DCOthAnticoag			Core:	Yes
Section Name: Discharge			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate whether or not the patient was of was contraindicated. The contraindication physician, nurse practitioner, pharmacist	on must be docu	mented in the medical		r if it
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Mort-DC Status	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: MtDCStat	DataLength:			
<i>ParentValue:</i> = "Alive"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
<u>Code:</u> Value:				
$\frac{1}{1 \text{ Yes}}$				
2 No				
3 Contraindicated				
Long Name: ACE or ARB Inhibitors - Discharge			SeqNo:	5100
Short Name: DCACE			Core:	Yes
Section Name: Discharge			Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate whether or not the patient was of was contraindicated or not indicated (no documented in the medical record by a passistant.	history of CHF	F or EF>40%). The cont	traindication m	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Mort-DC Status	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: MtDCStat	DataLength:			
<i>ParentValue:</i> = "Alive"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
3 Contraindicated				
6 Not indicated (no hx CHF or				
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STS Adult	Cardiac Surgery	Database
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EF>40%)

Long Name:	Beta Blockers - Discharge	SeqNo:	5105
Short Name:	DCBeta	Core:	Yes
Section Name.	Discharge	Harvest:	Yes

DBTableName AdultData

Definition: Indicate whether or not the patient was discharged on beta blockers, or if beta blocker was contraindicated. The contraindication must be documented in the medical record by a physician, nurse practitioner, pharmacist or physician assistant.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Mort-DC Status	Format:	Text (categorical values specified by STS)
ParentShortName:	MtDCStat	DataLength:	
ParentValue:	= "Alive"	Data Source:	User
ParentHarvestCode	<i>es:</i> 1		

Harvest Codes:

Code: Value: 1 Yes 2 No 3 Contraindicated

Long Name:	Amiodarone - Discharge	SeqNo:	5110
Short Name:	DCAmiodarone	Core:	Yes
Section Name:	Discharge	Harvest:	Yes

DBTableName AdultData

Definition: Indicate whether or not the patient was discharged from facility on Amiodarone, or if it was contraindicated. The contraindication must be documented in the medical record by a physician, nurse practitioner, pharmacist or physician assistant.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Mort-DC Status	Format:	Text (categorical values specified by STS)
ParentShortName:	MtDCStat	DataLength:	
ParentValue:	= "Alive"	Data Source:	User
ParentHarvestCode	<i>es:</i> 1		

Harvest Codes:

- Code: Value:
 - 1 Yes
 - 2 No
 - 3 Contraindicated

Long Name: Lipid Lowering Statin - Discharge	e		SeqNo:	5115
Short Name: DCLipLowStat			Core:	Yes
Section Name: Discharge		1	Harvest:	Yes
DBTableName AdultData				
<i>Definition:</i> Indicate whether or not the patient w contraindicated. The contraindication nurse practitioner, pharmacist or physical sector of the patient o	n must be documer			ın,
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Mort-DC Status	Format:	Text (categorical values	specified by	STS)
ParentShortName: MtDCStat	DataLength:			
<i>ParentValue:</i> = "Alive"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
3 Contraindicated				
Long Name: Lipid Lowering Non-Statin - Disc	charge		SeqNo:	5120
Short Name: DCLipLowNonStat			Core:	Yes
Section Name: Discharge		1	Harvest:	Yes

DBTableName AdultData

Definition: Indicate whether or not the patient was discharged from facility on a Non-Statin, or if it was contraindicated. The contraindication must be documented in the medical record by a physician, nurse practitioner, pharmacist or physician assistant.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name: N	Mort-DC Status	Format:	Text (categorical values specified by STS)
ParentShortName: N	/tDCStat	DataLength:	
ParentValue: =	"Alive"	Data Source:	User
ParentHarvestCodes:	1		
Harvest Codes:			
Code:	Value:		
1	Yes		
2	No		
3	Contraindicated		

STS Adult Cardiac Surgery Database			Versio	n: 2.81
Long Name: Antiarrhythmics - Discharge			SeqNo:	5125
Short Name: DCAArhy			Core:	No
Section Name: Discharge			Harvest:	No
DBTableName AdultData				
Definition: Indicate whether or not the patient w	vas discharged from	n facility on antiarrhyth	mics.	
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Mort-DC Status	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: MtDCStat	DataLength:			
<i>ParentValue:</i> = "Alive"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				
Long Name: Lipid Lowering - Discharge			SeqNo:	5130
Short Name: DCLipid			Core:	No
Section Name: Discharge			Harvest:	No
DBTableName AdultData				
<i>Definition:</i> Indicate whether or not the patient w was contraindicated or not indicated record by a physician, nurse practition	. The contraindicat	ion must be documented		
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Mort-DC Status	Format:	Text (categorical valu	es specified by	STS)
Parent Long Name:Mort-DC StatusParentShortName:MtDCStat	Format: DataLength:	Text (categorical valu	es specified by	STS)
			es specified by	STS)
ParentShortName: MtDCStat	DataLength:		es specified by	STS)
ParentShortName:MtDCStatParentValue:= "Alive"	DataLength:		es specified by	· STS)
ParentShortName: MtDCStat ParentValue: = "Alive" ParentHarvestCodes: 1	DataLength:		es specified by	STS)
ParentShortName: MtDCStat ParentValue: = "Alive" ParentHarvestCodes: 1 Harvest Codes:	DataLength:		es specified by	STS)
ParentShortName: MtDCStat ParentValue: = "Alive" ParentHarvestCodes: 1 Harvest Codes: <u>Code:</u> Value:	DataLength:		es specified by	STS)

STS Adult Cardiac Surgery Database		Version: 2.8
Long Name: Lipid Lowering - Discharge - Medi	cation Type	SeqNo: 513
Short Name: DCLipMT		Core: N
Section Name: Discharge		Harvest: N
DBTableName AdultData		
Definition: Indicate the type of Lipid Lowering m	nedication the pati	ent was on when discharged from the facilit
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name: Lipid Lowering - Discharge	Format:	Text (categorical values specified by STS)
ParentShortName: DCLipid	DataLength:	
<i>ParentValue:</i> = "Yes"	Data Source:	User
ParentHarvestCodes: 1		
Harvest Codes:		
Code: Value:		
1 Statin		
2 Non statin		
3 Both		
4 Other		
Long Name: Readmission		SeaNo: 514
Long Name: Readmission Short Name: Readmit		SeqNo: 514 Core: Y
Long Name:ReadmissionShort Name:ReadmitSection Name:Readmission		
Short Name: Readmit		Core: Y
Short Name: Readmit Section Name: Readmission DBTableName AdultData Definition: Indicate whether the patient was readmined hospitalization for this surgery. Code	yes for inpatient a	<i>Core:</i> Y <i>Harvest:</i> Y ital within 30 days of discharge from dmission to an acute care facility. Do not
Short Name: Readmit Section Name: Readmission DBTableName AdultData Definition: Indicate whether the patient was readmined hospitalization for this surgery. Code capture ED or outpatient visits or administration	yes for inpatient a	<i>Core:</i> Y <i>Harvest:</i> Y ital within 30 days of discharge from dmission to an acute care facility. Do not
Short Name: Readmit Section Name: Readmission DBTableName AdultData Definition: Indicate whether the patient was readming the spitalization for this surgery. Code capture ED or outpatient visits or adming the spitalization for the surgery. Code capture ED or outpatient visits or adming the spitalization. LowValue: UsualRangeLow:	yes for inpatient a	<i>Core:</i> Y <i>Harvest:</i> Y ital within 30 days of discharge from dmission to an acute care facility. Do not
Short Name: Readmit Section Name: Readmission DBTableName AdultData Definition: Indicate whether the patient was readmined hospitalization for this surgery. Code capture ED or outpatient visits or administration	yes for inpatient a	<i>Core:</i> Y <i>Harvest:</i> Y ital within 30 days of discharge from dmission to an acute care facility. Do not
Short Name: Readmit Section Name: Readmission DBTableName AdultData Definition: Indicate whether the patient was readming Indicate whether the patient was readming Note: No	yes for inpatient a hission to a skilled <i>Format:</i>	<i>Core:</i> Y <i>Harvest:</i> Y ital within 30 days of discharge from dmission to an acute care facility. Do not facility or nursing home.
Short Name: Readmit Section Name: Readmission DBTableName AdultData Definition: Indicate whether the patient was readming Indicate whether the patient was readming Code capture ED or outpatient visits or adming LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Mort-DC Status	yes for inpatient a hission to a skilled	Core: Y Harvest: Y ital within 30 days of discharge from dmission to an acute care facility. Do not facility or nursing home. Text (categorical values specified by STS)
Short Name: Readmit Section Name: Readmission DBTableName AdultData Definition: Indicate whether the patient was readming Indicate whether the patient was readming Indicate whether the patient was readming LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Mort-DC Status ParentShortName: MtDCStat	yes for inpatient a nission to a skilled <i>Format:</i> <i>DataLength:</i>	Core: Y Harvest: Y ital within 30 days of discharge from dmission to an acute care facility. Do not facility or nursing home. Text (categorical values specified by STS)
Short Name: Readmit Section Name: Readmission DBTableName AdultData Definition: Indicate whether the patient was read hospitalization for this surgery. Code capture ED or outpatient visits or adm LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Mort-DC Status ParentShortName: MtDCStat ParentValue: = "Alive"	yes for inpatient a nission to a skilled <i>Format:</i> <i>DataLength:</i>	Core: Y Harvest: Y ital within 30 days of discharge from dmission to an acute care facility. Do not facility or nursing home. Text (categorical values specified by STS)
Short Name: Readmit Section Name: Readmission DBTableName AdultData Definition: Indicate whether the patient was read hospitalization for this surgery. Code capture ED or outpatient visits or adm LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Mort-DC Status ParentShortName: MtDCStat ParentValue: = "Alive" ParentHarvestCodes: 1	yes for inpatient a nission to a skilled <i>Format:</i> <i>DataLength:</i>	Core: Y Harvest: Y ital within 30 days of discharge from dmission to an acute care facility. Do not facility or nursing home. Text (categorical values specified by STS)
Short Name: Readmit Section Name: Readmission DBTableName AdultData Definition: Indicate whether the patient was read hospitalization for this surgery. Code capture ED or outpatient visits or adm LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Mort-DC Status ParentShortName: MtDCStat ParentValue: = "Alive" ParentHarvestCodes: 1 Harvest Codes:	yes for inpatient a nission to a skilled <i>Format:</i> <i>DataLength:</i>	Core: Y Harvest: Y ital within 30 days of discharge from dmission to an acute care facility. Do not facility or nursing home. Text (categorical values specified by STS)
Short Name: Readmit Section Name: Readmission DBTableName AdultData Definition: Indicate whether the patient was reading hospitalization for this surgery. Code capture ED or outpatient visits or adm LowValue: UsualRangeLow: HighValue: UsualRangeHigh: Parent Long Name: Mort-DC Status ParentShortName: MtDCStat ParentShortName: = "Alive" ParentHarvestCodes: 1 Harvest Codes: Code: Value:	yes for inpatient a nission to a skilled <i>Format:</i> <i>DataLength:</i>	Core: Y Harvest: Y ital within 30 days of discharge from dmission to an acute care facility. Do not facility or nursing home. Text (categorical values specified by STS)

STS Adult Cardiac Surgery Database			Version	n: 2.81
Long Name: Date of Readmission			SeqNo:	5145
Short Name: ReadmitDt			Core:	Yes
Section Name: Readmission			Harvest:	Yes
DBTableName AdultData				
Definition: Indicate the date the patient was readmit	tted.			
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Readmission	Format:	Date mm/dd/yyyy		
ParentShortName: Readmit	DataLength:			
<i>ParentValue:</i> = "Yes"	Data Source:	User		
ParentHarvestCodes: 1				

<i>Long Name:</i> Readmit <=30 Days from DOP			SeqNo:	5150
Short Name: Readm30			Core:	No
Section Name: Readmission			Harvest:	No
DBTableName AdultData				
<i>Definition:</i> Indicate whether the patient was readmit from the date of initial surgery for ANY care institutions only. Do not include read	reason. This ir	cludes readmissions to a	cute care, prir	nary
LowValue: UsualRangeLow:				
HighValue: UsualRangeHigh:				
Parent Long Name: Mort-DC Status	Format:	Text (categorical values	s specified by	STS)
ParentShortName: MtDCStat	DataLength:			
<i>ParentValue:</i> = "Alive"	Data Source:	User		
ParentHarvestCodes: 1				
Harvest Codes:				
Code: Value:				
1 Yes				
2 No				

STS Adult Cardiac Surgery Database		Version	Version: 2.81	
Long Name:	Readmit Reason	SeqNo:	5160	
Short Name:	ReadmRsn	Core:	Yes	
Section Name.	Readmission	Harvest:	Yes	
DBTableName	e AdultData			

Definition: Indicate the primary reason that the patient was readmitted as an in-patient.

LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		
Parent Long Name:	Readmission	Format:	Text (categorical values specified by STS)
ParentShortName: Readmit DataLength:			
ParentValue:	= "Yes"	Data Source:	User
ParentHarvestCode	<i>s:</i> 1		

Harvest Codes:

Code: Value:

- 21 Anticoagulation Complication -Pharmacological
- 20 Anticoagulation Complication - Valvular
- 2 Arrhythmia/Heart Block
- 3 Congestive Heart Failure
- 22 Coronary Artery / Graft Dysfunction
- 27 DVT
- 24 Endocarditis
- 23 Infection Conduit Harvest Site
- 9 Infection Deep Sternum / Mediastinitis
- 5 Myocardial Infarction and/or Recurrent Angina
- 28 PE
- 6 Pericardial Effusion and/or Tamponade
- 31 Pleural effusion requireing intervention
- 29 Pneumonia
- 14 Renal Failure
- 30 Respiratory complications, other
- 18 Stroke
- 15 TIA

26	Transplant Rejection				
25	VAD Complication				
8	Valve Dysfunction				
19	Vascular Complication, acute	;			
998	Other - Related Readmission				
999	Other - Nonrelated				
	Readmission				
32	Other - Planned readmission				
997	Unknown				
Long Name: Readm	nit Reason - Primary Procedure			SeqNo:	5165
Short Name: Readm	1Pro			Core:	Yes
Section Name: Readm	ission			Harvest:	Yes
DBTableName Adultl	Data				
Definition: Indicate t	the primary procedure that the p	patient received	after being readmitted	as an in-patient	*•
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long Name: F	Readmission	Format:	Text (categorical valu	es specified by	STS)
ParentShortName: R	eadmit	DataLength:			
ParentValue: =	"Yes"	Data Source:	User		
ParentHarvestCodes:	1				
Harvest Codes:					
Code:	Value:				
700	No Procedure Performed				
100	Cath lab for valve intervention	n			
30	Cath lab for coronary intervention (PCI)				
80	Dialysis				
10	OR for Bleeding				
50	OR for Coronary Artery Intervention				
70	OR for Sternal Debridement/Muscle Flap				
60	OR for Valve Intervention				
90	OR for Vascular Procedure				
20	Pacemaker insertion/AICD				
40	Pericardiotomy/Pericardiocen esis	ıt			
110	Thoracentesis / chest tube				

insertion		
120 Wound vac		
710 Other Procedure		
720 Unknown		
Long Name: Predicted Risk of Mortality		<i>SeqNo:</i> 5170
Short Name: PredMort		<i>Core:</i> Yes
Section Name: Risk Scores		Harvest: Yes
DBTableName AdultData		
Definition: Indicate the Predicted Risk of Mortality.		
LowValue: 0.000 UsualRangeLow:		
HighValue: 100.000 UsualRangeHigh:		
Parent Long Name:	Format:	Real number, at least 0.3 digits (3 decimal places)
ParentShortName:	DataLength:	
ParentValue:	Data Source:	Calculated
ParentHarvestCodes:		

Long Name: Predicted Deep Sternal Wound Infx		<i>SeqNo:</i> 5175		
Short Name: PredDeep		Core: Yes		
Section Name: Risk Scores	Harvest: Yes			
DBTableName AdultData				
Definition: Indicate the Predicted Risk of Deep Sternal Wound Infection.				
LowValue: 0.000 UsualRangeLow:				
HighValue: 100.000 UsualRangeHigh:				
Parent Long Name:	Format:	Real number, at least 0.3 digits (3 decimal places)		
ParentShortName:	DataLength:			
ParentValue:	Data Source:	Calculated		
ParentHarvestCodes:				

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Predicted Reoperation		<i>SeqNo:</i> 5180
Short Name: PredReop		Core: Yes
Section Name: Risk Scores		Harvest: Yes
DBTableName AdultData		
Definition: Indicate the Predicted Risk of Reoperation	on.	
LowValue: 0.000 UsualRangeLow:		
HighValue: 100.000 UsualRangeHigh:		
Parent Long Name:	Format:	Real number, at least 0.3 digits (3 decimal places)
ParentShortName:	DataLength:	
ParentValue:	Data Source:	Calculated
ParentHarvestCodes:		
Long Name: Predicted Permanent Stroke		<i>SeqNo:</i> 5185
Short Name: PredStro		Core: Yes
Section Name: Risk Scores		Harvest: Yes
DBTableName AdultData		
Definition: Indicate the Predicted Risk of Permanent	Stroke.	
LowValue: 0.000 UsualRangeLow:		
HighValue: 100.000 UsualRangeHigh:		
Parent Long Name:	Format:	Real number, at least 0.3 digits (3 decimal places)
ParentShortName:	DataLength:	
ParentValue:	Data Source:	Calculated
ParentHarvestCodes:		

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Predicted Prolonged Ventilation		<i>SeqNo:</i> 5190
Short Name: PredVent		Core: Yes
Section Name: Risk Scores		Harvest: Yes
DBTableName AdultData		
Definition: Indicate the Predicted Risk of Prolonged	Ventilation.	
LowValue: 0.000 UsualRangeLow:		
HighValue: 100.000 UsualRangeHigh:		
Parent Long Name:	Format:	Real number, at least 0.3 digits (3 decimal places)
ParentShortName:	DataLength:	
ParentValue:	Data Source:	Calculated
ParentHarvestCodes:		
Long Name: Predicted Renal Failure		<i>SeqNo:</i> 5195
Short Name: PredRenF		Core: Yes
Section Name: Risk Scores		Harvest: Yes
DBTableName AdultData		
Definition: Indicate the Predicted Risk of Renal Fail	ure.	
LowValue: 0.000 UsualRangeLow:		
HighValue: 100.000 UsualRangeHigh:		
Parent Long Name:	Format:	Real number, at least 0.3 digits (3 decimal places)
ParentShortName:	DataLength:	
ParentValue:	Data Source:	Calculated
ParentHarvestCodes:		

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Predicted Morbidity or Mortality		<i>SeqNo:</i> 5200
Short Name: PredMM		Core: Yes
Section Name: Risk Scores		Harvest: Yes
DBTableName AdultData		
Definition: Indicate the Predicted Risk of Morbidit	ty or Mortality.	
LowValue: 0.000 UsualRangeLow:		
HighValue: 100.000 UsualRangeHigh:		
Parent Long Name:	Format:	Real number, at least 0.3 digits (3 decimal places)
ParentShortName:	DataLength:	
ParentValue:	Data Source:	Calculated
ParentHarvestCodes:		
Long Name: Predicted Short Length of Stay		SeqNo: 5205
Short Name: Pred6D		Core: Yes
Section Name: Risk Scores		Harvest: Yes
DBTableName AdultData		
Definition: Indicate the Predicted Risk of Short Le	ength of Stay.	
LowValue: 0.000 UsualRangeLow:		
HighValue: 100.000 UsualRangeHigh:		
Parent Long Name:	Format:	Real number, at least 0.3 digits (3 decimal places)
ParentShortName:	DataLength:	
ParentValue:	Data Source:	Calculated
ParentHarvestCodes:		

STS Adult Cardiac Surgery Database		Ve	ersion: 2.81
Long Name: Predicted Long Length of Stay		SeqNo	<i>b:</i> 5210
Short Name: Pred14D		Сон	e: Yes
Section Name: Risk Scores		Harvest	: Yes
DBTableName AdultData			
Definition: Indicate the Predicted Risk of Long	Length of Stay.		
LowValue: 0.000 UsualRangeLow:			
HighValue: 100.000 UsualRangeHigh:			
Parent Long Name:	Format:	Real number, at least 0.3 digits (places)	3 decimal
ParentShortName:	DataLength:		
ParentValue:	Data Source:	Calculated	
ParentHarvestCodes:			
Long Name: Temporary Yes/No Field #1		SeqNo	<i>b:</i> 5215
Short Name: TempYN1		Con	e: Yes
Section Name: STS Temporary Fields		Harvest	: Yes
DBTableName AdultData			
<i>Definition:</i> This is a temporary field that should the STS.	not be used for dat	a collection until expressly instruc	eted to by
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:	Format:	Text (categorical values specifie	d by STS)
ParentShortName:	DataLength:		
ParentValue:	Data Source:	User	
ParentHarvestCodes:			
Harvest Codes:			
Code: Value:			
1 Yes			
2 No			

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: Temporary Yes/No Field #2		<i>SeqNo:</i> 5220
Short Name: TempYN2		Core: Yes
Section Name: STS Temporary Fields		Harvest: Yes
DBTableName AdultData		
<i>Definition:</i> This is a temporary field that should not the STS.	ot be used for data col	lection until expressly instructed to by
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name:	Format: Tex	t (categorical values specified by STS)
ParentShortName:	DataLength:	
ParentValue:	Data Source: Use	r
ParentHarvestCodes:		
Harvest Codes:		
<u>Code:</u> Value:		
1 Yes		
2 No		
Long Name: Temporary Date Field		<i>SeqNo:</i> 5225
Short Name: TempDt		<i>Core:</i> Yes
Section Name: STS Temporary Fields		Harvest: Yes
DBTableName AdultData		
<i>Definition:</i> This is a temporary field that should no the STS.	ot be used for data col	lection until expressly instructed to by
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name:	Format: Dat	e mm/dd/yyyy
ParentShortName:	DataLength:	
ParentValue:	Data Source: Use	r
ParentHarvestCodes:		

STS Adult Ca	ardiac Surgery Database	Versior	n: 2.81
Long Name:	Temporary Coded Field	SeqNo:	5230
Short Name.	TempCode	Core:	Yes
Section Nam	e: STS Temporary Fields	Harvest:	Yes
DBTableNa	ne AdultData		
Definition:	This is a temporary field that should not be used for data collection u the STS.	until expressly instructed t	o by
LowValue:	UsualRangeLow:		
HighValue:	UsualRangeHigh:		

Parent Long Name:	Format: Text (categorical values specified by STS)	
ParentShortName:	DataLength:	
ParentValue:	Data Source: User	
ParentHarvestCodes:		

Harvest Codes:

Code:	Value:
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20

STS Adult Cardiac Surgery Database	Version: 2.81
Long Name: Temporary Text Field	<i>SeqNo:</i> 5235
Short Name: TempText	Core: Yes
Section Name: STS Temporary Fields	Harvest: Yes
DBTableName AdultData	
<i>Definition:</i> This is a temporary field that the STS.	t should not be used for data collection until expressly instructed to by
LowValue: UsualRangeLow:	
HighValue: UsualRangeHigh:	
Parent Long Name:	Format: Text
ParentShortName:	DataLength:
ParentValue:	Data Source: User
ParentHarvestCodes:	

Long Name:	STS Custom Numeric Field 1			SeqNo:	5240
Short Name:	STSCustNum1			Core:	No
Section Name:	STS Temporary Fields			Harvest:	No
DBTableName	AdultData				
b	his field will be used to store va e collected before a data specific n this field except as explicitly st	ation upgrade can be c			
LowValue:	UsualRangeLow:				
HighValue:	UsualRangeHigh:				
Parent Long N	lame:	Format:	Real		
ParentShortNo	nme:	DataLength:			
ParentValue:		Data Source:	User		
ParentHarvest	Codes:				

STS Adult Cardiac Surgery Database		Version: 2.81
Long Name: STS Custom Numeric Field 2		<i>SeqNo:</i> 5245
Short Name: STSCustNum2		Core: No
Section Name: STS Temporary Fields		Harvest: No
DBTableName AdultData		
<i>Definition:</i> This field will be used to store values de be collected before a data specification to in this field except as explicitly stated by	ipgrade can be completed	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name:	Format: Real	
ParentShortName:	DataLength:	
ParentValue:	Data Source: User	
ParentHarvestCodes:		
Long Name: STS Custom Numeric Field 3		SeqNo: 5250
Short Name: STSCustNum3		Core: No
Section Name: STS Temporary Fields		Harvest: No
DBTableName AdultData		
<i>Definition:</i> This field will be used to store values de be collected before a data specification u in this field except as explicitly stated by	apgrade can be completed	
LowValue: UsualRangeLow:		
HighValue: UsualRangeHigh:		
Parent Long Name:	Format: Real	
ParentShortName:	DataLength:	
ParentValue:	Data Source: User	
ParentHarvestCodes:		

STS Adult Cardiac Surgery Database		Ver	sion: 2.81
Long Name: STS Custom Numeric Field 4		SeqNo:	5255
Short Name: STSCustNum4		Core	: No
Section Name: STS Temporary Fields		Harvest:	No
DBTableName AdultData			
<i>Definition:</i> This field will be used to store values de be collected before a data specification u in this field except as explicitly stated by	ipgrade can be com		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:	Format: Rea	al	
ParentShortName:	DataLength:		
ParentValue:	Data Source: Use	er	
ParentHarvestCodes:			
Long Name: STS Custom Numeric Field 5		SeqNo:	5260
Short Name: STSCustNum5		Core	: No
Section Name: STS Temporary Fields		Harvest:	No
DBTableName AdultData			
<i>Definition:</i> This field will be used to store values de be collected before a data specification u in this field except as explicitly stated by	ipgrade can be com		
LowValue: UsualRangeLow:			
HighValue: UsualRangeHigh:			
Parent Long Name:	Format: Rea	al	
ParentShortName:	DataLength:		
ParentValue:	Data Source: Use	er	
ParentHarvestCodes:			

STS Adult Cardiac Surgery Database			Version: 2.81				
Long Name: STS Custom Text Field 1			SeqNo:	5265			
Short Name: STSCustTxt1			Core:	No			
Section Name: STS Temporary Fields			Harvest:	No			
DBTableName AdultData							
<i>Definition:</i> This field will be used to store values defined by the STS at a future date if new data fields need to be collected before a data specification upgrade can be completed. Users should not store any data in this field except as explicitly stated by the STS.							
LowValue: UsualRangeLow:							
HighValue: UsualRangeHigh:							
Parent Long Name:	Format:	Text length 100					
ParentShortName:	DataLength:						
ParentValue:	Data Source:	User					
ParentHarvestCodes:							
Long Name: STS Custom Text Field 2			SeqNo:	5270			
Short Name: STSCustTxt2			Core:	No			
Section Name: STS Temporary Fields			Harvest:	No			
DBTableName AdultData							
<i>Definition:</i> This field will be used to store values defined by the STS at a future date if new data fields need to be collected before a data specification upgrade can be completed. Users should not store any data in this field except as explicitly stated by the STS.							
LowValue: UsualRangeLow:							
HighValue: UsualRangeHigh:							
Parent Long Name:	Format:	Text length 100					
ParentShortName:	DataLength:						
ParentValue:	Data Source:	User					
ParentHarvestCodes:							

STS Adult Cardiac Surgery Database			Version: 2.81				
Long Name: STS Custom Text Field 3			SeqNo:	5275			
Short Name: STSCustTxt3			Core:	No			
Section Name: STS Temporary Fields			Harvest:	No			
DBTableName AdultData							
<i>Definition:</i> This field will be used to store values defined by the STS at a future date if new data fields need to be collected before a data specification upgrade can be completed. Users should not store any data in this field except as explicitly stated by the STS.							
LowValue: UsualRangeLow:							
HighValue: UsualRangeHigh:							
Parent Long Name:	Format:	Text length 100					
ParentShortName:	DataLength:						
ParentValue:	Data Source:	User					
ParentHarvestCodes:							
Long Name: STS Custom Text Field 4			SeqNo:	5280			
Short Name: STSCustTxt4			Core:	No			
Section Name: STS Temporary Fields			Harvest:	No			
DBTableName AdultData							
<i>Definition:</i> This field will be used to store values defined by the STS at a future date if new data fields need to be collected before a data specification upgrade can be completed. Users should not store any data in this field except as explicitly stated by the STS.							
LowValue: UsualRangeLow:							
HighValue: UsualRangeHigh:							
Parent Long Name:	Format:	Text length 100					
ParentShortName:	DataLength:						
ParentValue:	Data Source:	User					
ParentHarvestCodes:							

STS Adult Cardiac Surgery Database		Version: 2.81			
Long Name: STS C	Custom Text Field 5			SeqNo:	5285
Short Name: STSC	ustTxt5			Core:	No
Section Name: STS T	emporary Fields			Harvest:	No
DBTableName Adult	Data				
be collec	d will be used to store values det eted before a data specification u eld except as explicitly stated by UsualRangeLow:	pgrade can be o			
HighValue:	UsualRangeHigh:				
Parent Long Name:	e suurten gerram	Format:	Text length 100		
ParentShortName:		DataLength:			
ParentValue:		Data Source:	User		
ParentHarvestCodes:					