

New Data Managers Session

• Melinda Offer, RN, MSN



Learning Objectives:

Upon completion of this session, participant will be able to:

- Identify STS Educational Resources
- Understand how to read the Data and Software Specifications
- Understand the Procedure ID Chart
- Identify resources within the National Harvest Report



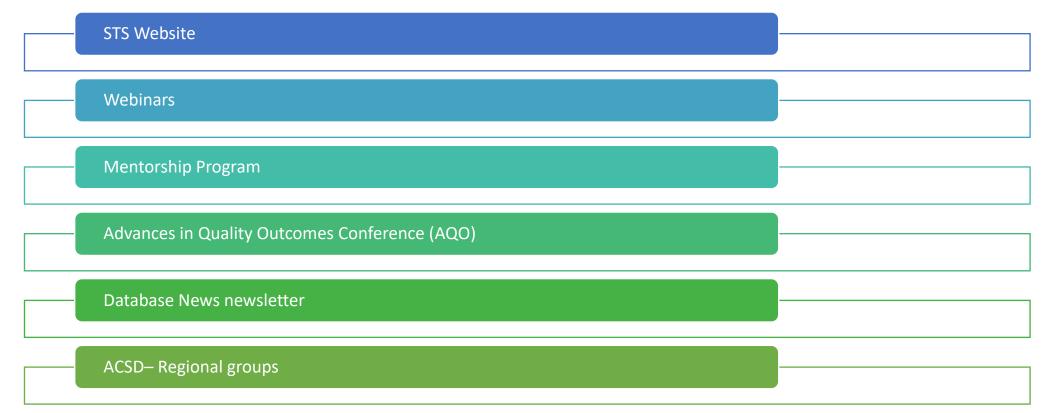


LET THE GAMES BEGIN

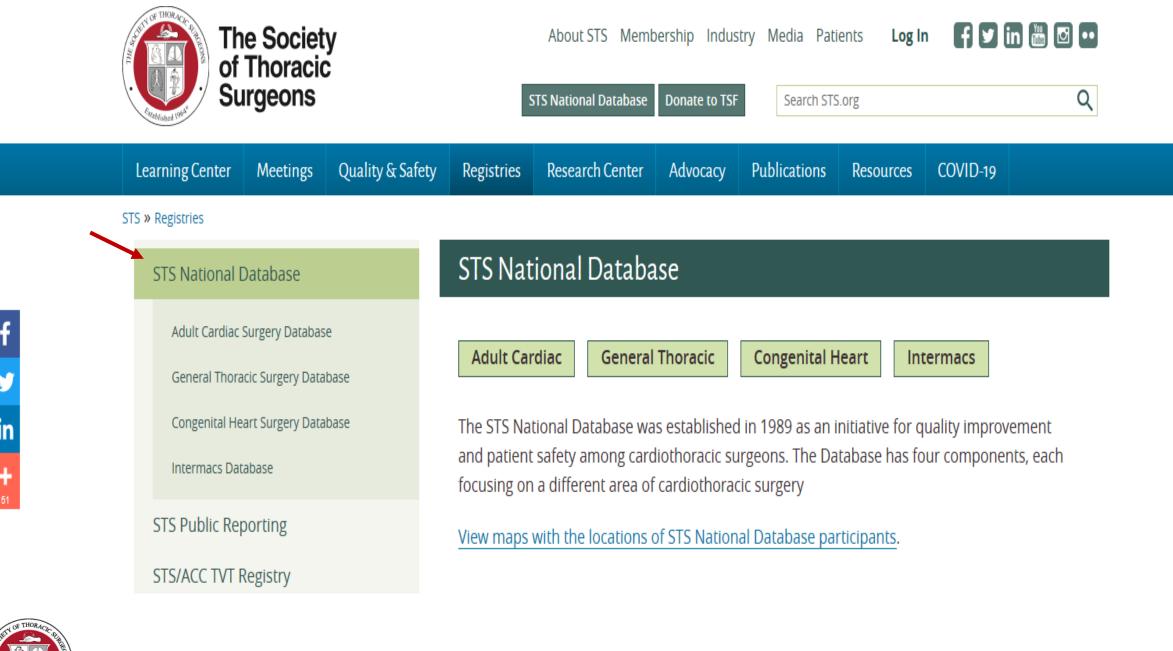




Data Manager Resources







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STS/ACC TVT Registry

Meetings

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Learning Center



» Registries	
STS National Database	STS National Database
Adult Cardiac Surgery Database General Thoracic Surgery Database	Adult Cardiac General Thoracic Congenital Heart Intermacs
Congenital Heart Surgery Database Intermacs Database	The STS National Database was established in 1989 as an initiative for quality improvement and patient safety among cardiothoracic surgeons. The Database has four components, each focusing on a different area of cardiothoracic surgery
STS Public Reporting	View maps with the locations of STS National Database participants.

Live Webinars

You are invited to participate in a series of live, monthly webinars to get an update on the exciting changes under way to the STS National Database. Registration is not required for the webinars, but you will need to sign in with your name and email address to participate.

The webinars will be recorded and available online within 48 hours from the STS National Database Webinars page.





The Society	
of Thoracic	
Surgeons	

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STS » Registries

STS National Database	STS National Database
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STS/ACC TVT Registry	

Important Resources

STS IQVIA Go-Live Checklist

Database Transition Resource

Data Manager Education

Harvest Schedule and Information

Database Forms

Merit-Based Incentive Payment System Reporting

Database Software and Vendors

Advances in Quality & Outcomes: A Data Managers Meeting

STS National Database News

Regional Database Activities

License the STS National Database Participant Logo

Audits

Contact Information

Data Manager Education

ACSD Dashboard Overview

Data Manager Mentorship Program

2019 Data Manager Survey Results

List of Mortality Status Fields

Tips for Collecting 30-Day Follow-Up Data

STS/IQVIA Uploader Instructions

How-To Videos

IQVIA Registry Dashboard - General Navigation Training



IQVIA Uploader and DQR Review



▼ Anatomical Diagrams

Coronary Anatomy
/alve Anatomy
/alve Repairs
Aortic Aneurysm
Aortic Dissection

Foundation

Home » Registries & Research Center » STS National Database

STS National Database

Adult Cardiac Surgery Database

General Thoracic Surgery Database

Congenital Heart Surgery Database

Intermacs Database

STS Public Reporting

STS/ACC TVT Registry

STS Research Center

STS National Database Mentorship Program

The Society has launched an STS National Database mentorship program that will pair experienced data managers with those who are seeking advice related to data abstraction. After filling out a questionnaire, potential



mentors and mentees will be matched based on Database type, experience in specific areas, and other factors. STS will share contact information with mentors and mentees to facilitate an ongoing mentorship relationship.

To apply as either a mentor or mentee, please fill out the appropriate form linked below. You will be notified once you have been matched.

If you have questions about the program or any feedback on the sign-up forms, contact <u>Emily</u> <u>Conrad</u>.

Note: The opinions and advice provided through this mentorship program are those of its individual participants and do not necessarily reflect the views of The Society of Thoracic Surgeons.

Apply to be a Mentor

Apply to be a Mentee



Advances in Quality & Outcomes: A Data Managers Meeting







- Annual educational meeting for Data Managers of the STS National Database.
- Objective to improve data abstraction and coding skills.

Advances in Quality & Outcomes: A Data Manager Meeting (AQO)

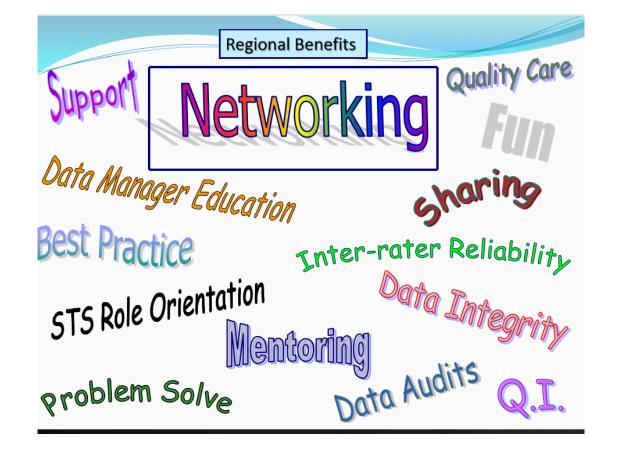


Database News Newsletter

- The Database News newsletter is a newsletter dedicated to the STS National Database.
- Contains information on public reporting, data submission deadlines, meetings, and audits.
- The STS newsletter is available on the STS Data Manager Education page









Regional Groups

Frequently Asked Questions - FAQ



Clinical Question Request Form

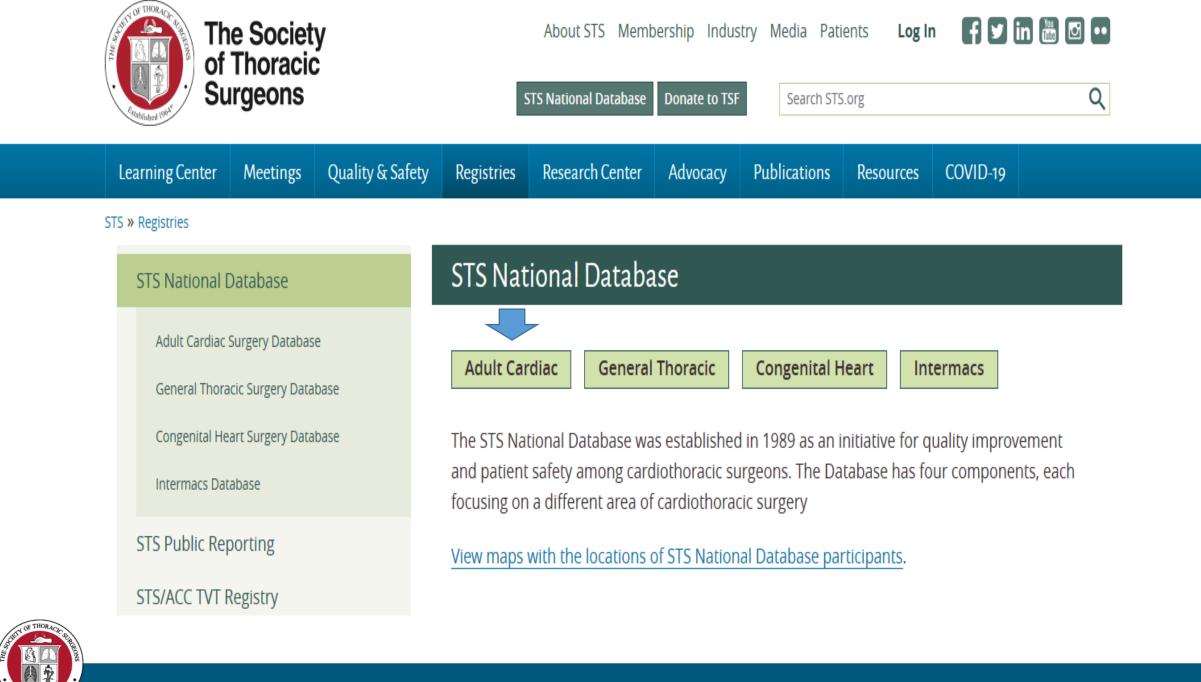
Are you struggling with a clinical question regarding data abstraction? Fill out the Clinical Question Request Form and get a response within 30 days.

Ask a Question

Ask a Question

Full Name *	Sequence #: *
Email *	Short Field Name:
Phone *	
Participant ID #	IMPORTANT: FOR HIPAA COMPLIANCE PURPOSES, PLEASE NOTE THAT ANY PATIENT IDENTIFYING INFORMATION ¹ SHOULD BE REDACTED FROM THIS SUBMISSION.
Database Version *	Question: *
- Select -	
State/Province *	
- Select -	•





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Additional Resources on STS Website

- Data Collection Forms •
- Training Manual ۲
- Ask a Clinical Question
 - FAQ Updates



Data Collection

General Thoracic Surgery

Congenital Heart Surgery

Database

Database

STS has compiled a training manual, data collection forms, and additional resources to aid in data collection for the Adult Cardiac Surgery Database.

clinical outcomes registry for adult cardiac surgery. Launched in 1989,

the Database contains more than 6.5 million cardiac surgery

physicians, including surgeons and anesthesiologists.

procedure records and currently has nearly 3,800 participating

Access Data Collection Resources



Q

Navigating the STS Website:

Adult Cardiac Surgery Database

General Thoracic Surgery Database

Congenital Heart Surgery Database

Intermacs Database

STS Public Reporting

STS/ACC TVT Registry

The STS Adult Cardiac Surgery Database is currently operating under version 4.20.2. Data collection forms, training manuals, and additional resources are available to assist in data collection.

Version 4.20

Effective date July 1, 2020

Training Manual - Updated July 29, 2020

- Training Manual
- FAQ Summary August 2020

Data Collection Forms (DCFs) - Updated June 30, 2020

- Highlighted and Annotated DCF
- Highlighted and Non-Annotated DCF
- Word Version Highlighted DCF
- Annotated DCF
- Non-Annotated DCF
- Word Version DCF



Data Collection For (DCF's)	ms.
The Society of Thoracic Surgeons Adult Cardiac Surgery Database Data Collection Form Version 4.20.2 STS National Database	
Add/Change to Field **Risk Variable ++NQF Updates 06292020 A. Administrative Participant ID: Record ID: (software generated) ParticiD (25) Record ID (30) Patient participating in STS-related clinical trial: Clinical Trial Patient ID: Clinical Trial 2 Trial 3 Trial 5 Trial 6 (If not None)	
B. Demographics Patient Last Name: Patient First Name: PatLName (50) PatFName (55) Date of Birth: /(mm/dd/yyyy) Patient Age: **	Annotated DCF
MedRecN (85) Permanent Street Address: City: PatCar (90) PatCity (95) Region: ZIP Code: Country: PatRegion (100) PatZIP (105) PatientCountry (115) Race Documented: Yes DNo DPt. Declined to Disclose PatZIP (105) RaceDocumented (150) Race: (If Yes, select all that apply-+) White: Am Indian/Alaskan: RaceMulti (151) Black/African American: ** Hawaiian/Pacific Islander: Asian: ** Other:	
nt ttr m aw the	Adult Cardiac Surgery Database Data Collection Form Version 4.20.2 Definition Defin

Non-Annotated DCF

OF THORA

8 A 2

Patient Last Name:	Patient	First Name:	Pati
Date of Birth: / /	(mm/dd/yyyy) Patient		Sex
National Identification (Social Secur	ity) Number Known: 🗆 Y	$\operatorname{Yes} \square \operatorname{No} \square \operatorname{Refused} (\operatorname{If} \operatorname{Yes} \rightarrow)$	Nati
Medical Record Number:			
Permanent Street Address:		City:	
Region:		ZIP Code:	Cou
Race Documented:	□Pt. Declined to Disclos	e	
Ra	ce : (If Yes, select all that ap		
		Black/African American: *	• 🗆 H
		🗆 Asian: **	
Hispanic, Latino or Spanish Ethnicit	r: •• 🗆 Yes 🗆 No	□ Not Documented	
C. Hospitalization			
Hospital Name:	(H	Not Missing →) Hospital ZIP Code:	
Hospital National Provider Identifier		Hospital CMS Certi	
		(If Primary Payor ⇔N	Ione/Self
Primary Payor: ** (Choose one)		(irrinnary rayor -r	TORIC O'CAL (

STS Training Manual



SEQ. #: 305 Long Name: Admit Date Short Name: AdmitDt

Definition: Indicate the Date of Admission. For those patients who originally enter the hospital in an out-patient capacity (i.e., catheterization), the **admit** date is the date the patient's status changes to in-patient. In the event admission date comes after date of surgery, use date of surgery.

Intent/Clarification: Required date format: mm/dd/yyyy. Update April 2021 – In the event of multiple admit dates in the medical record, use the date that the patient first becomes an inpatient.

FAQ Sept 2020 - Patient came in for explantation of RV leads x2, explantation of AICD generator, implantation of RV lead, and implantation of new AICD generator. Patient was in "extended recovery" status the entire stay. Do I code surgery date as admit date even though the patient was never technically an inpatient? Answer - Yes code surgery date as admit date in this scenario.



Navigating the STS Website



Additional Resources - Updated June 30, 2020

- Data Specifications v4.20.2
- Software Specifications v4.20.2
- Itemized Changes from v4.20.1 to v4.20.2
- Change Summary v4.20.2
- <u>Itemized Changes v4.20.2</u>
- <u>Procedure Identification Chart (ProcID)</u> Updated October 2020
- Risk Model Variable Chart
- Risk Model Endpoint Chart Updated February 2021
- <u>Congenital Diagnoses and Procedure List</u>
- Case Inclusion Guide
- NQF Endorsed Measures Updated August 2021



Surgery date	Data Specifications		
Any dates up to December 31, 1999	Data converted to		
	2.35 format		
January 1, 2000 through December 31, 2001	2.35		
January 1, 2002 through June 30, 2002	2.35 or 2.41		
July 1, 2002 through December 31, 2003	2.41		
January 1, 2004 through December 31, 2004	2.41 or 2.52.1		
July 1, 2004 through June 31, 2007	2.52.1		
July 1, 2007 through December 31, 2007	2.52.1 or 2.61		
January 1, 2008 through June 30, 2011	2.61		
July 1, 2011 through June 30, 2014	2.73		
July 1, 2014 through June 30, 2017	2.81		
July 1, 2017 through June 30, 2020	2.9		
July 1, 2020 through current date	4.20.2		

Software Specifications – page 4

- Important Resource to be familiar with
- Dates of Versions

- H. Format The format in which the values for the field should be collected. The options for this field are:
 - Date mm/dd/yyyy: Date values only with the month specified as a 2digit numeric value, day specified as a 2-digit numeric value, and year specified as a 4-digit numeric value.
 - Time hh:mm (24-hour clock): Time values only with the hours specified as a 2-digit numeric value (in 24-hour format), and the minutes specified as a 2-digit numeric value.
 - Date/Time mm/dd/yyyy hh:mm : Date and time values in one field with the month specified as a 2-digit numeric value, day specified as a 2-digit numeric value, and year specified as a 4-digit numeric value, followed by a single space and then the hours specified as a 2-digit numeric value (in 24-hour format), and the minutes specified as a 2digit numeric value.
 - Integer: Numeric values with no decimal points.
 - Real: Numeric values with at least one decimal point.
 - Text: Value can contain any alphanumeric characters.
 - Text (categorical values specified by STS): Values displayed to the user are the text descriptions defined in the data specifications table. The values submitted to the Data Warehouse are the Harvest Codes defined in the data specifications.
 - Text (categorical values specified by user): Values displayed to the user and submitted to the Data Warehouse come from a list maintained by the user (see item "e" under the "3. Data Entry" section of the "Software Specification" below).
- DataSource This field defines how the data is entered into the field. The options for this field are as follows (note, in some cases, there is more than one option for data source, such as "User or Calculated"):
 - User The user enters the value, otherwise it is left missing (null).
 - Automatic The software automatically inserts a value for every record. This is usually assigned to administrative fields that must contain a value, such as the DataVrsn field.

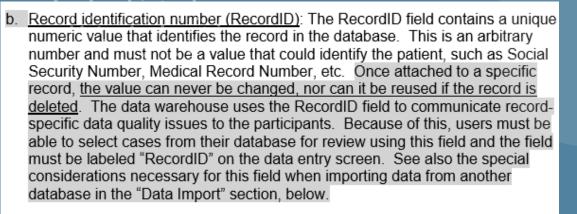
Software Specifications – page 6

Describes how to read Data Specs



Software Specs – page 11

- Record ID unique numeric value that identifies the record in the database.
- Generated Software site by the STS. The codes will be in a format similar to "V01".
- For example V01000001



Beginning with version 2.73 of the data specifications, the values generated by the software for the RecordID field must be a combination of a vendor specific code followed by an alphanumeric value that makes the identifier unique. The vendor-specific code will consist of three characters and will be assigned to eac vendor and Participant Generated Software site by the STS. The codes will be a format similar to "V01". For example, the software will generate a RecordID value of V01000001 for the first record and V01000002 for the second record. The purpose of this feature is to allow sites to move their data from one version of a software package to another, or from one vendor package to another, and maintain the referential integrity of their data records.

Together, the ParticID and the RecordID will affect a composite key, which is unique to each record throughout the national STS database.



Software Specs – page 14

- Points out what data can be imported into Vendor Data Form
- ADT Tool
- Reason we can't import more data is because of the importance of the data managers eyes on the data, the limitations of informatics on writing the correct code, especially when there are changes in definitions and between EMR versions and vendors

4. Importing data from other data sources

Although the data many participants are entering into their STS certified software may be gathered from another electronic data system at their site (such as an EMR), it is strictly against STS policy for vendors to provide the users with the means to import this data automatically. It is not practical for the STS to certify the mapping of data from each site's EMR to the STS data specifications, which would be required to ensure the integrity of the overall STS database.

There are only two exceptions to this policy:

- Unique Device Identification (UDI) numbers can be imported from devices such as barcode readers. This applies to the following fields:
 - Valve Explant Unique Device Identifier (UDI) [ValExpUDI]
 - Second Valve Explant Device Unique Device Identifier (UDI) [ValExpDevUDI]
 - VS-Aortic Proc-Imp Unique Device Identifier (UDI) [VSAoImUDI]
 - VS-Mitral Proc-Imp-Unique Device Identifier (UDI) [VSMilmUDI]
 - VS-Tricuspid Proc-Imp-Unique Device Identifier (UDI) [VSTrImUDI]
 - Previous VAD Unique Device Identifier (UDI) [PrevVADUDI]
 - VAD-Implant Unique Device Identifier (UDI) [VImpUDI]
 - VAD-Implant Unique Device Identifier (UDI) #2 [VImpUDI2]
 - VAD-Implant Unique Device Identifier (UDI) #3 [VImpUDI3]
 - Other Card-Atrial Appendage Ligation/Exclusion UDI [OCarAAUDI]
- The following demographic data fields can be imported from an Admission/Discharge/Transfer (ADT) system:

LongName	ShortName
Patient Last Name	PatLName
Patient First Name	PatFName
Patient Middle Name	PatMName
Date of Birth	DOB
Patient Age	Age



5. Field dependencies

Software

Specs – page

16

Field dependencies exist where one field (the "parent" field) controls whether or not one or more other fields (the "child" fields) can contain data. Child fields are indicated in the specifications by having their immediate parent field named in the "Parent Field" section of their specification. For example, "Cerebrovascular Disease" is a parent field to its child "Prior CVA". The following guidelines must be followed to handle dependent fields:

- a. If the data value of a parent field indicates that no data should be in its dependent fields, then those dependent fields should be unavailable on the data entry screen. In the example above, only if "Cerebrovascular Disease" = "Yes" should "Prior CVA" be available for data entry.
- b. If a parent field indicates that no data should be in its dependent field, vendors must set all child fields to Null. <u>Note that in prior versions of the Software Specifications, vendors had the option of setting child field values to "No" provided those fields were set to Null during data extract. This has caused parent/child issues to appear in site data, so this practice is no longer acceptable.</u>
- **c.** If a parent field is originally set to "Yes", then values can be entered into its child fields. If the record is subsequently edited by the user and the parent value is changed to "No", <u>the values in the child fields must be automatically changed to Null.</u>
- d. Reporting on missing data values needs to be handled differently in dependent (child) fields, since its meaning depends upon the data value of the parent field. See "Data quality and completeness checks" below for a full description of how this should be handled.
- Parent Child Relationships

Software Specs – page 26

 Meld Score Calculation – system calculation must have INR, Total Bili, and Creatinine to calculate

Appendix A: Calculation of MELD scores:

Starting with version 2.73, software must be able to calculate the MELD score for each patient. The results from this calculation are entered by the software into the field RF-MELD Score (MELDScr). The value of this score is calculated using the values entered by the user into the three fields "RF-Total Bilirubin" (TotBIrbn), "RF-INR" (INR), and "RF-Last Creat Level" (CreatLst). The patient's dialysis status (RF-Renal Fail-Dialysis) is also considered in the calculation.

The calculation can be made by creating a "factor" for each of the three variables involved in the score. The value of the variable is used to determine the value of the factor. The factors are then used in a formula to determine the MELD score. The algorithm for determining the value of each factor is as follows:

If RF-Total Bilirubin is >0 and <=1 then bilirubin_factor = 1 otherwise, if RF-Total Bilirubin is >1, then bilirubin_factor = the specified RF-Total Bilirubin value.

If RF-INR is >0 and <=1 then inr_factor = 1 otherwise, if RF-INR is > 1, then inr_factor = the specified RF-INR value.

if RF-Renal Fail-Dialysis=Yes, then creatinine_factor = 4 otherwise, if RF-Last Creat Level is >0 and <=1 then creatinine_factor = 1 otherwise, if RF-Last Creat Level is >1 and <=4, then creatinine_factor = the RF-Last Creat Level value

otherwise, if RF-Last Creat Level is >4, then creatinine_factor = 4

After determining the three factors, the calculation is done using the formula:

MELDScr = (3.8 x Ln([bilirubin_factor])) + (11.2 x Ln([inr_factor])) + (9.6 x Ln([creatinine_factor])) + 6.4

Note that "Ln" refers to the mathematical "natural log" function.

No score should be calculated if any of the following conditions are true: - RF-Total Bilirubin is missing



Appendix C: Calculation of Total Postoperative Initial Ventilation Hours

Starting with v4.20.2, software must be able to calculate the Total Postoperative Initial Ventilation Hours. The results of this calculation are entered by the software into the field "Total Postoperative Initial Ventilation Hour" (TotalPOInitVentHr). The value of this field is calculated by finding the number of <u>hours between "OR Exit Date and Time" (ORExitDT) and "Initial Extubation Date And Time" (ExtubateDT).</u> Value should be stored in decimal format with at least two decimal-places. This value is zero for patients extubated in OR or not intubated for procedure (ExtubOR – <u>Yes or N/A (not intubated))</u>.

- If either ORExitDT or ExtubateDT are missing, TotalPOInitVentHr is left missing.
- The difference between ORExitDT and ExtubateDT must not be rounded.
- If ExtubOR="Yes" or "N/A", TotalPOInitVentHr must be set to zero.
- Final calculation should include at least two decimal places.

Software Specs – page 27



Appendix F: Field ShortName and SeqNo by DataVrsn.

The following table lists all fields that have been collected in the STS Adult CV Database since 1999. The sequence number (SeqNo) of each field for a given version of the specifications is specified under the version number. If no sequence number is specified, the field was not a Core field for that version of the specifications.

ShortName	2.35	2.41	2.52.1	2.61	2.73	2.81	2.9	4.20.2
AbxDisc				1347	2730	2290	2290	2290
AbxSelect				1345	2710	2280	2280	2280
AbxTiming				1346	2720	2285	2285	2285
AddIntraopPAnti						2295	2295	
ADevDelMeth01							5455	5455
ADevDelMeth02							5480	5480
ADevDelMeth03							5505	5505
ADevDelMeth04							5530	5530
ADevDelMeth05							5555	5555
ADevDelMeth06							5580	5580
ADevDelMeth07							5605	5605
ADevDelMeth08							5630	5630
ADevDelMeth09							5655	5655
ADevDelMeth10							5680	5680
ADevDelMeth11							5705	5705
ADevDelMeth12							5730	5730
ADevDelMeth13							5755	5755







Data Specifications

Long Name:	RF-Renal Fail-Dialysis
Short Name:	Dialysis
Section Name:	Risk Factors
DBTableName	Adultdata2

SeqNo:	375
Core:	Yes
Harvest:	Yes

 Definition:
 Indicate whether the patient is currently (prior to surgery) undergoing dialysis.

 Data Source:
 User

 Format:
 Text (categorical values specified by STS)

Harvest Codes:				
Code:	<u>Value:</u>			
1	Yes			
2	No			
3	Unknown			

- Integer: Numeric values with no decimal points.
- Real: Numeric values with at least one decimal point.
- · Text: Value can contain any alphanumeric characters.

sts.org



Data Specification

Long Name: Height (cm)	Height (cm)				
Short Name: HeightCm	HeightCm				
Section Name: Risk Factor	Risk Factors				
DBTableName Adultdata1					
Definition: Indicate the	height of the patient i	n centimeters.			
Data Source: User Format: Real					
Low Value: 20.0 Hi	gh Value: 251.0	UsualRangeLow: 12	22.0 UsualRangeHigh:	213.0	



Data Specifications - Parent Child Relationship

Diabetes: \Box Yes \Box No \Box Unknown (If Yes \rightarrow) Diabetes-Control: \Box None \Box Diet only \Box Oral \Box Insulin \Box Other SubQ \Box Other \Box Unknown Diabetes (360) DiabCtrl (365)

Long Name: RF-Diabetes-Control Short Name: DiabCtrl SeqNo: 365 Core: Yes

ParentShortName: Diabetes ParentLongName: RF-Diabetes ParentHarvestCodes: 1 ParentValues: = "Yes"



Procedure ID Chart

- Isolated Coronary Artery Bypass (CAB)
- Isolated Aortic Valve Replacement (AV Replace)
- Isolated Mitral Valve Replacement (MV Replace)
- Aortic Valve Replacement + CAB (AV Replace + CAB)
- Mitral Valve Replacement + CAB (MV Replace + CAB)
- Aortic Valve Replacement + Mitral Valve Replacement (AV Replace + MV Replace)
- Isolated Mitral Valve Repair (MV Repair)
- Mitral Valve Repair + CAB (MV Repair + CAB)





Need to have DCF with Seq Numbers to read this chart

	PART 1 (PROCID 1 through 4)					
Variable Short	e Short Isolated CAB Isolated AVR Isolated MVR**			AVR + CAB		
Name/Seq #	(ProcID=1)	(ProcID=2)	(ProcID=3)	(ProcID=4)		
OpCAB/2120	 Yes, planned 	• No	• No	 Yes, planned 		
	 Yes, unplanned due to 	 Yes, unplanned due to surgical 	 Yes, unplanned due to surgical 	 Yes, unplanned due to 		
	unsuspected disease or anatomy	complication	complication	unsuspected disease or anatomy		
		 Missing 	 Missing 			
OpCAB	OpCAB in(3,5)	OpCab in (NULL, 2,4)	OpCab in (NULL, 2,4)	OpCAB in(3,5)		
OpValve/2129	<not calculation="" in="" this="" used=""></not>	• Yes	• Yes	• Yes		
OpValve		Opvalve eq 1	Opvalve eq 1	Opvalve eq 1		
VSAV/2131	• No	 Yes, planned 	• No	 Yes, planned 		
	 Yes, unplanned due to 	 Yes, unplanned due to 	 Yes, unplanned due to surgical 	 Yes, unplanned due to 		
	surgical complication	unsuspected disease or	complication	unsuspected disease or		
	 Missing 	anatomy	 Missing 	anatomy		
VSAV	VSAV in (NULL, 2,4)	VSAV in (3,5)	VSAV in (NULL, 2,4)	VSAV in (3,5)		
VSAVPr/3395	<not calculation="" in="" this="" used=""></not>	Replacement	<not calculation="" in="" this="" used=""></not>	Replacement		
VSAVPr		VSAVPr eq 1		VSAVPr eq 1		
VSMV/2133	• No	• No	 Yes, planned 	• No		
	 Yes, unplanned due to 	 Yes, unplanned due to 	 Yes, unplanned due to 	 Yes, unplanned due to 		
	surgical complication	surgical complication	unsuspected disease or anatomy	surgical complication		
	 Missing 	 Missing 		 Missing 		
VSMV	VSMV in (NULL, 2,4)	VSMV in (NULL, 2,4)	VSMV in (3,5)	VSMV in (NULL, 2,4)		
VSMVPr/3500	<not calculation="" in="" this="" used=""></not>	<not calculation="" in="" this="" used=""></not>	 Replacement 	<not calculation="" in="" this="" used=""></not>		
VSMVPr			VSMVPr eq 2			
OCarCongProc1/	 Missing 	 Missing 	 Missing 	 Missing 		
6515	 PFO, Primary closure 	 PFO, Primary closure 	 PFO, Primary closure 	 PFO, Primary closure 		
	 Anomalous origin of coronary 		 ASD repair, Primary closure 	 Anomalous origin of coronary 		
	artery from pulmonary artery		 ASD repair, Patch 	artery from pulmonary artery		
	repair			repair		
	 Anomalous aortic origin of 			 Anomalous aortic origin of 		
	coronary artery from aorta			coronary artery from aorta		
	(AAOCA) repair			(AAOCA) repair		
OCarCongProc1	Ocarcongproc1 in	Ocarcongproc1 in (NULL,10)	Ocarcongproc1 in (NULL,10,20,30)	Ocarcongproc1 in		
	(NULL,10,1291,1305)			(NULL,10,1291,1305)		

Page 1 with 4 categories – scroll down to see how other procedures effect the category

The Gray lines are programming lingo and can be ignored. Focus on the white rows On this slide you have procedures that effect all 4 categories and others that effect individual categories

/Exp2		VFxn2	Missing in (NULL, 3, 2)		
/Exp2 /Exp3/3985			Yes, not during this procedure		
	 Yes, not doining mis procedure No 				
		Missing			
/Exp3		VExp3	in (NULL, 3, 2)		
)CarLVA/4054		•	• No		
			 Missing 		
)CarLVA		OCarLV	/A in (NULL, 2)		
CarAcqVSD/413			• No		
			 Missing 		
OCarAcqVSD		OCarV	SD in (NULL, 2)		
ortProc/2123			• No		
		• Yes, u	nplanned due to surgical complication		
	Missing				
AortProc		Aortpro	c in (NULL, 2,4)		
ndovasProc/5066			• No		
	Missing				
ndovasProc	T 1 1 1		Proc in (NULL, 2)		
)CarAFibLesLoc/ 191	 Epicardia1 None 	Epicardial None	<not calculation="" in="" this="" used=""></not>	 Epicardial None 	
171	 None Missing 	 None Missing 		 None Missing 	
)CarAFibLesLoc	 Missing OCarAFibLesLoc not in(2.3) 	Missing OCarAFibLesLoc not in(2,3)		Missing OCarAFibLesLoc not in(2,3)	
)Car <mark>d</mark> ASDRep/	 No 	No	<not calculation="" in="" this="" used=""></not>	No	
136	 No Missing 	 No Missing 	ZING 0300 III IIIS CAICUIALIOII/	 No Missing 	
	- mussing	- missing		• IMI221112	
)Car <mark>d</mark> ASDRep	OCar <mark>d</mark> ASDRep in (NULL, 2)	OCar <mark>d</mark> ASDRep in (NULL, 2)		OCar <mark>d</mark> ASDRep in (NULL, 2)	
)CarACD/	<not calculation="" in="" this="" used=""></not>	<not calculation="" in="" this="" used=""></not>	• None	<not calculation="" in="" this="" used=""></not>	
055			 Missing 		
			Pacemaker		
)CarACD			OCarACD in (NULL, 1, 2)		
)CarACDLE/	 Yes, unplanned due to surgical complication 				

SEQ 4191 A-fib Lesion location that is used in the Isolated CAB, Isolated AVR, and Isolated CAB AVR calculation, however it is not used in the Isolated MVR calculation

> Green Highlights changes from V 2.9 to 4.2

Short Name and Seq Number	UCTUMO(411)		• No • Missing	If you code "No or Missing" case will stay isolated
		OCTumor	OCTumor in (NULL, 1)	
				Ignore Gray Lines

Other Cardiac Tumor SEQ 4115

On PROC ID Chart

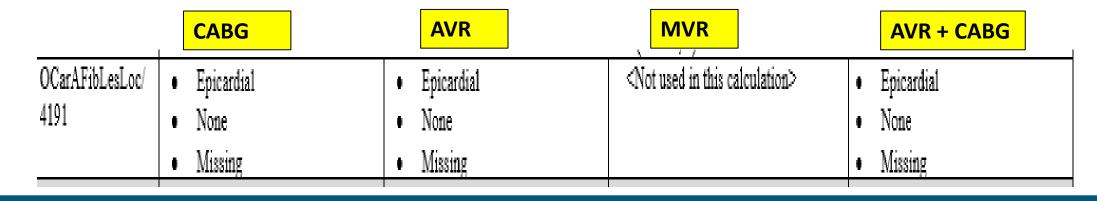
- No this means if you code No to this field then the procedure will stay isolated.
- Missing- this means if you leave this field missing then the procedure will stay isolated.

https://youtu.be/2-vH1cCiCts



PROC ID Scenario

Patient has CABG with A-fib Pulmonary Vein Isolation performed SEQ 4191. Will this procedure be classified as an isolated CABG?





Additional Resource: Risk Model Variable Chart

- Shows you the variables that are in each Risk Model
- The purpose of risk adjustment is to allow STS database participants to compare their performance with other participants (e.g. overall STS, like participants, region or state). By accounting for and controlling patient risk factors that are present prior to surgery, risk adjustment "levels the playing field" as best as possible.



CABG	Operative Mortality	Stroke	Renal Failure	Prolonged Ventilation	Deep Stern Inf	Reop	Mortality/ Morbidity	Length of Stay>14	Length of Stay<6
B. Demographics									
Age (70)	×	x	×	×	×	×	×	×	x
Gender (75)	x	x	X	x	×	x	×	x	x
RaceBlack (160)	x	x	×	x	x	x	×	x	x
RaceAsian (165)		х	×	x	×	x	×	x	x
Ethnicity (185)		х	×	×	×	×	×	×	х
RaceNativeAm (170)			x	x	×	x	×	x	х
RacNativePacific (175)			×	x	×	x	×	x	x
C.Hospitalization									
SurgDt (310)			×	×	×	×	×	×	x
PayorPrim (291)	x	х	x	x	×	x	x	x	х
PayorSecond (293)	x	x	×	x	×	x	×	×	x
D. Risk Factors									
WeightKg (335)	×	x	×	×	×	x	×	×	x
HeightCm (330)	×	х	×	x	×	х	×	x	х
Diabetes (360)	x	х	x	x	×	x	x	x	х
DiabCtrl (365)	x	х	x	x	×	x	x	x	х
Hct (575)	x	х	×	x	×	x	×	x	х
WBC (565)	x	х	×	x	×	x	×	×	x
Platelets (580)	x	х	x	x	×	x	×	x	x
CreatLst (585)	x	x	x	×	×	x	×	x	x
Dialysis (375)	x	х	×	x	×	x	×	×	х
Hypertn (380)		х	×	×			×		x
InfEndTy (840)					×				

InfEndo (385)	Τ								
ChrLungD (405)	×	×	×	×	×		×	x	x
ImmSupp (490)	×	1	×	×	×		×	x	x
PVD (505)	×	×	×	×	×	×	×	x	x
CVD (525)	×	×	×	×			×	x	x
CVA (530)	×	×	×	×			×	x	x
CVAWhen (535)	×	×	×	×			×	x	x
CVDTIA (540)	×	×	×	×			×	x	x
CVDStenRt (550)	×	×	×	×			×	x	x
CVDStenLft (555)	×	×	×	×			×	x	x
CVDPCarSurg (560)	×	x	<u> </u>	×					x
IVDrugAb (470)	1	1	1	×		×		x	x
Alcohol (480)	×	×	×	×	×	×	×	x	x
Pneumonia (465)	1		×	×			×	x	x
MediastRad (495)	×	1		×				x	x
Cancer (500)	1	×	1	1					
TobaccoUse (400)	1	1	×	×	×		×	x	x
FHCAD (355)		×	×	×			×	x	×
HmO2 (450)	×			×			×	x	x
SlpApn (460)		×		×			×		x
LiverDis (485)	×		×	×		×	×	x	x
UnrespStat (520)	×	×		×			×		
Syncope (515)	×			×		×	×		x
E. Previous Interventions									
PrCAB (670)	×		×	×	×	×	×	×	×
PrValve (675)	1	1	×	×	×	×	×	x	x
PrValveProc1 (695)				×		×	×	×	x

PrValveProc2 (700)				×		×	×	×	×
PrValveProc3 (705)				×		×	×	×	×
PrValveProc4 (710)				×		×	×	×	×
PrValveProc5 (715)				×		×	×	x	×
POC (805)			x	×	×			×	×
POCInt1 (810)		x	x	×	×		×	×	×
POCInt2 (815)		x	×	×	×		×	×	×
POCInt3 (820)		×	×	×	×		×	×	×
POCInt4 (825)		x	×	×	×		×	×	×
POCInt5 (830)		x	×	×	×		×	×	×
POCInt6 (835)		x	×	×	×		×	×	×
POCInt7 (840)		×	×	×	×		×	×	×
pocpci (775)	×		×			×	×		×
pocpciwhen (780)	×		×			×	×		×
pocpciin (800)	×		×			×	×		×
PrCVInt (665)			×	×		×	×		
F. Preoperative Cardiac Status									
MIWhen (890)	×	×	×	×			×	×	×
HeartFailTmg (912)	×	×	×	×	×	×	×	×	×
ClassNYH (915)	×	×	×	×	×	×	×	×	×
CardSympTimeOfAdm (895)	×		×	×		×	×	×	×
CarShock (930)	×		×	x		×	×	×	×
ArrhythAtrFib (961)	×	×	×	×	×	×	×	×	x
ArrhythAFib (962)	×	×	×	×	×	×	×	×	x
ArrhythAFlutter (960)	×	x	×	×	×	×	×	×	x
ArrhythThird (970)	×	×	×	×	×	x	×	×	x

ArrhythSecond (965)	х			×	×	x	x	x	×
ArrhythSSS (955)	x			x	×	x	×	x	×
ArrhythVV (950)	x			×		x	×	x	×
G. Preoperative Medications									
MedInotr (1130)	x	х	×	×			×	×	×
MedADP5Days (1060)	х	х	×	×		x	×	х	×
MedADPIDis (1065)	х	×	×	×		×	×	х	×
MedSter (1143)	х	х	×	×		×	×	x	×
MedGP (1073)	x	×	×	×		×	×	x	x
Resusc (935)	x	×	×	×	×	×	×	x	x
medacei48 (1020)			×						
H. Hemodynamics and Cath									
NumDisV (1170)	х	×	×	×	×	×	×	x	×
PctStenLMain (1195)	х			×		×	×		
HDEF (1545)	x	×	×	×		×	×	x	x
PctStenPro LAD (1215)		x						x	x
VDStenA (1600)	x					×			
VDStenM (1690)	х		×					х	
VDInsufA (1590)	х	x	×	×		×	×	x	x
VDInsufM (1680)	х		×	×		×	×		x
VDInsufT (1775)	х		×	×		×	×	x	×
VDAoPrimEt (1646)									
I. Operative									
Incidenc (1970)	x		×	×	×	×	×	x	×
Status (1975)	х	×	×	×	×	×	×	x	×

K. Valve Surgery								
VSTrRepair (3646)				×				
L. Mechanical Cardiac Assist Devices								
IABPWhen (3730)	×	х	×	×	x	x	x	x
CathBasAssistWhen (3760)	x	x	x		x	x	x	x
ECMOWhen (3780)	×	x	×		×	x	x	x

Additional Resources -Congenital Diagnoses and Procedure List

	Congenital Pro	ocedures By Category
		10= PFO, Primary closure
		20= ASD repair, Primary closure
		30= ASD repair, Patch
		40= ASD repair, Device
		2110= ASD repair, Patch + PAPVC repair
ASD		50= ASD, Common atrium (single atrium), Septation
		60= ASD creation/enlargement
		70= ASD partial closure
		80= Atrial septal fenestration
		85= Atrial fenestration closure

Congenital Diagnosis By Category

- □ 10=PFO
- □ 20= ASD, Secundum
- 30= ASD, Sinus venosus
- □ 40= ASD, Coronary sinus
- □ 50= ASD, Common atrium (single atrium)
- 2150= ASD, Postoperative interatrial commu



Additional Resources – Case Inclusion Guide





STS National Database

STS Adult Cardiac Database Inclusion Document

General information – This document is provided to sites to assist in procedure inclusion. It is **not an all-inclusive list.** If your procedure can not be found on the list, <u>please send in a FAQ</u> to determine if the procedure should be included in the Database.

Required Cases in- conjunction with other CV surgery or stand-alone procedure.

1. CABG

- 2. Valve to include:
 - Aortic valve repair, surgical
 - Aortic valve replacement, surgical
 - Mitral valve commissurotomy, surgical
 - Mitral valve repair, surgical
 - Mitral valve replacement, surgical
 - Tricuspid valve repair, surgical
 - Tricuspid valve replacement, surgical
 - Tricuspid valvectomy
 - Pulmonary valve repair, surgical
 - Pulmonary valve replacement, surgical
 - Pulmonary valvectomy
 - Prosthetic valve repair
- 3. Aorta starting above diaphragm, includes dissections to include:
 - Aortic procedure, arch
 - Aortic procedure, ascending
 - Aortic procedure, descending
 - Aortic procedure, root
 - Aortic procedure, thoracoabdominal
 - Aortic Procedure, TEVAR

Additional Resources – NQF Measures



Process Measures:

Preoperative beta blockade therapy Use of IMA Discharge anti-platelet medication Discharge beta blockade therapy Discharge anti- lipid medication

Outcomes Measures:

Post-op Renal Failure Surgical Re-exploration Operative Mortality for CABG Prolonged Ventilation Deep Sternal Wound Infection Stroke/Cerebrovascular Accident

Report Overview STS Composite Quality Ratings and NQF-endorsed Measures STS Report – Period Ending 06/30/2018

Title	Description	Numerator	Denominator	Exclusions
				Discharge aspirin (DCASA) OR discharge P2Y12 antagonist (DCP2Y12) OR Other discharge anti-platelet (DCOthAntiPlat) is marked "contraindicated"
Beta Blockade at Discharge	Percent of patients aged 18 years and older undergoing isolated CABG who were discharged on beta blockers	Number of patients undergoing isolated CABG who were discharged on beta blockers Number of isolated CABG procedures in which discharge beta blockers (DCBeta) is marked "yes"	All patients undergoing isolated CABG according to STS Procedure Identification algorithm	Cases are removed from the denominator if there was an in- hospital mortality or if discharge beta blocker was contraindicated. Mortality Discharge Status (MtDCStat/DischMortStat), Mortality Date (MtDate), and Discharge Date (DischDt) indicate an in-hospital mortality; discharge beta blocker (DCBeta) marked as "contraindicated"
Anti-Lipid Treatment at Discharge	Percent of patients aged 18 years and older undergoing isolated CABG who were discharged on a statin or other lipid-lowering regimen NOTE: Beginning with data version 2.81 only statins are considered for this measure.	Number of patients undergoing isolated CABG who were discharged on a statin or other lipid-lowering regimen Number of isolated CABG procedures in which: Discharge statin medication (DCLipLowStat) is marked "yes"	All patients undergoing isolated CABG according to STS Procedure Identification algorithm	Cases are removed from the denominator if there was an in- hospital mortality or if discharge anti-lipid treatment was contraindicated. Mortality Discharge Status (MtDCStat/DischMortStat), Mortality Date (MtDate), and Discharge Date (DischDt) indicate an in-hospital mortality; Discharge statin medication (DCLipLowStat) is marked as "contraindicated"

Surgeon Worksheets - Updated July 17, 2020

- Aorta/Open Dissection Worksheet [Word version]
- Aorta/Endo Aneurysm Worksheet [Word version]
- Aorta/Endo Dissection Worksheet [Word version]
- Aorta/Endo Other Worksheet [Word version]
- Aorta/Open Aneurysm Worksheet [Word version]
- Aorta/Open Other Worksheet [Word version]
- Aortic Valve Surgeons Worksheet [Word version]
- Atrial Fibrillation Worksheet [Word version]
- CABG Worksheet [Word version]
- Intraoperative TEE Worksheet [Word version]
- Mitral Valve Worksheet [Word version]
- Tricuspid/Pulmonic Valve Worksheet [Word version]

Additional Resources – Surgeon Worksheets



Additional Resource – National Report Analysis Overview

 Reports are published following each quarterly database harvest and the report is provided to each eligible STS database participant.



STS National Database[™] Trusted. Transformed. Real-Time.

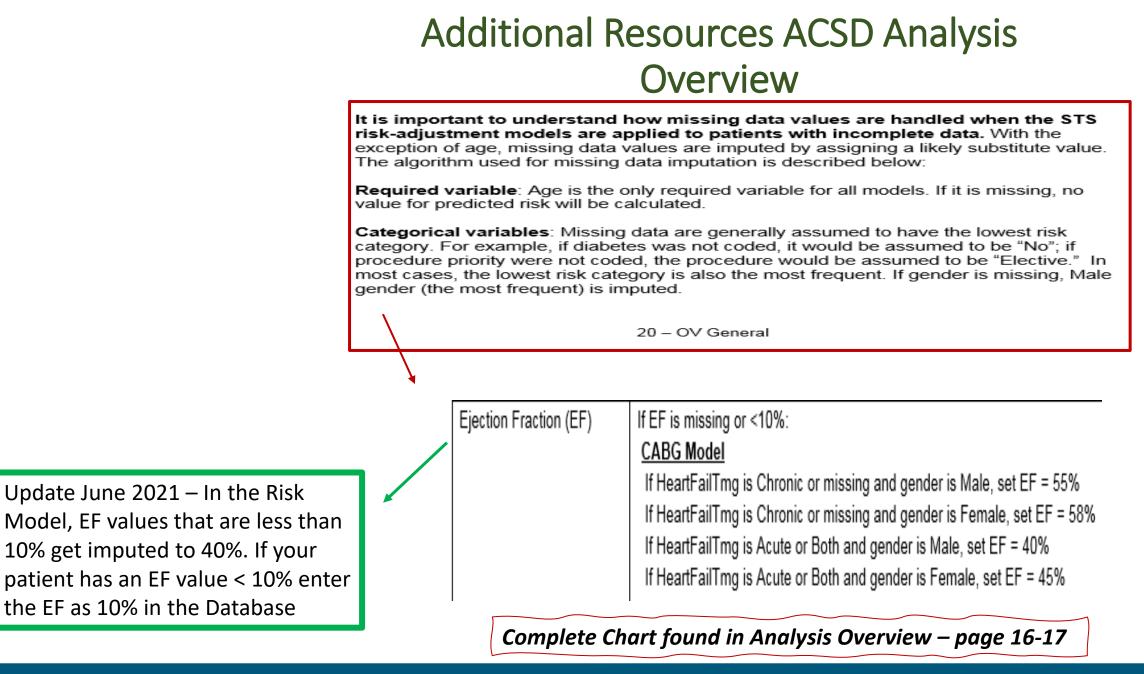
DATA ANALYSES OF THE SOCIETY OF THORACIC SURGEONS NATIONAL ADULT CARDIAC SURGERY DATABASE

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Report Overview Reporting Levels Participant's Region Overview of Risk-Adjusted Results Model Endpoints Handling of Missing Data OE Ratio Interpretations Star Rating NQF Measures







		Mc	ortality Risk	<-Adjustmer	nt			
Outcome		My Site 2019	My Site 2020	My Site 2021*	Like Group 2	Region 2021	STS 2021	
In-hospital Mortality	OR (95% CI) 🗲 Odds Ratio	0.56 (0.30-1.05)	0.65 (0.35-1.20)	0.78 (0.39-1.55)	1.08 (0.89-1.30)	0.93 (0.74-1.17)	1.00 ┥	– STS I
OE Ratio	O/E (95% CI)	0.30 (0.08-0.85)	0.47 (0.15-1.15)	0.00 (0.00-1.71)	0.97 (0.83-1.11)	0.91 (0.71-1.16)	1.00	
OL Natio	Risk-adjusted Rate (95% CI)◀━	Risk Adjusted Rate	0.87%	0.00% (0.00-3	1.96% (1.69-2	1.85% (1.44-2	2.03%	
	Observed Rate	-	-	-	-	2.02%	1.99%	
Operative Mortality	OR (95% CI)	0.59 (0.34-1.03)	0.73 (0.43-1.24)	0.92 (0.50-1.73)	1.06 (0.90-1.26)	0.89 (0.72-1.10)	1.00	
	O/E (95% CI)	0.39 (0.14-0.89)	0.62 (0.27-1.22)	0.73 (0.13-2.49)	0.95 (0.83-1.07)	0.86 (0.69-1.07)	1.00	
	Risk-adjusted Rate (95% CI)	0.86%	1.52%	1.94% (0.34-6	2.51% (2.20-2	2.29% (1.83-2	2.66%	
	Observed Rate	-	-	-	-	2.58%	2.65%	

Because each of these statistics has its advantages, the STS has decided to provide both in the report.

Comparison of O/E Ratio and Odds Ratio

- OE Ratio: The benefit of O/E Ratios is that they are familiar to many surgeons and are simple to compute using an STS-certified software package.
- OR Ratio: The main benefit of Odds Ratios obtained from hierarchical models is that they provide a more reliable estimate of performance for hospitals with a small number of patients.



The following table illustrates the possible interpretations of the O/E Ratio.

Table 11. O/E Ratio Interpretations*

Statistic	Interpretation
O/E Ratio > 1	When the O/E Ratio is greater than 1, the participant had an observed outcome level that was greater than expected. The participant performed worse than expected.
O/E Ratio < 1	When the O/E Ratio is less than 1, the participant had an observed outcome level that was less than expected. The participant performed better than expected.
O/E Ratio = 1	When the O/E Ratio is 1, the participant had an observed outcome level equal to expected. The participant performed as expected.

Observed is your site compared to the expected which is computed using the risk models on all sites data.

The interpretations in this table can also be roughly extended to Odds Ratios - values less than 1 imply better than average performance, values of 1 imply average performance and values over 1 imply worse than average performance. Note that the Odds Ratio will generally be closer to 1.0 than the O/E Ratio. It is possible that these two measures will be discrepant, but only if they are close to 1.0.

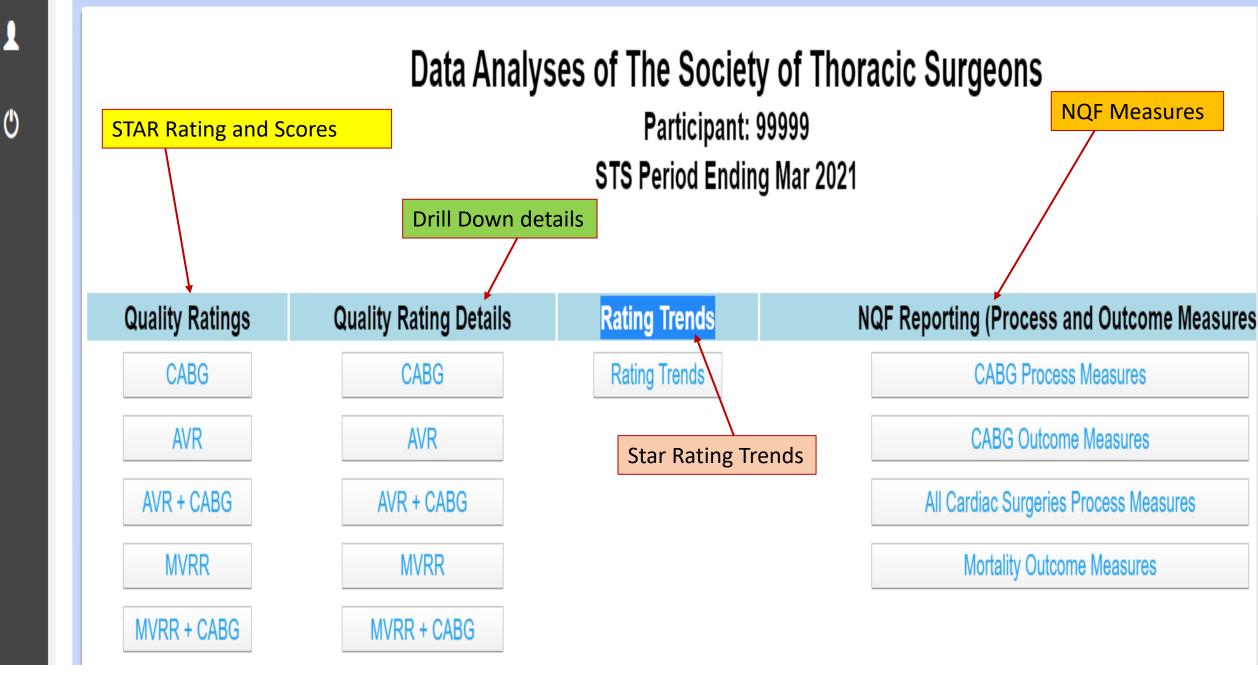


Table 12. Risk-adjusted Rate Interpretations

Statistic	Interpretation
Risk-adjusted rate > STS event rate	When the risk-adjusted rate for a particular adverse outcome is greater than the STS average rate, then the participant had more of those outcomes than expected given their case-mix.
Risk-adjusted rate < STS event rate	When the risk-adjusted rate for a particular adverse outcome is less than the STS average rate, then the participant had less of those outcomes than expected given their case-mix.
Risk-adjusted rate = STS event rate	When the risk-adjusted rate for a particular adverse outcome is equal to the STS average rate, then the participant had the same number of those outcomes as expected given their case-mix.







STAR Rating

Column 4. Participant Rating.

The participant rating system assigns participants to rating categories designated by one, two, or three stars. The rating categories are defined as follows:

★★★ → Participant performance is significantly higher than STS mean.



×

→ Participant performance is not statistically different from STS mean.

→ Participant performance is significantly lower than STS mean.



Data Completeness Requirement: Participants were excluded from the analysis if they had fewer than 10 isolated CABG procedures in the patient population and if they had more than 5% missing data on any of the following 5 NQF-endorsed process measures: use of IMA, preoperative beta blockade therapy, discharge beta blockade therapy; discharge anti-platelet medication; and discharge anti-lipid medication.

There are also thresholds that must be met for mortality fields.

Mortality fields: Mortality is counted as missing for a record if any of the fields below are missing. A value of unknown counts as missing.

- MtDCStat (Sequence# 5010, Vrsn. 2.81); DischMortStat (Sequence# 7005, Vrsn. 2.9)
- b. Mt30Stat (Sequence# 5015, Vrsn. 2.81; Sequence# 7001, Vrsn. 2.9)
- c. MtOpD (Sequence# 5025, Vrsn. 2.81; Sequence# 7124, Vrsn. 2.9)

If the percent missing is higher than 10% for year 2015 you are at risk of not receiving a star rating.

If the percent missing is higher than 5% for year 2016 you are at risk of not receiving a star rating.

If the percent missing is higher than 2% for year 2017 or after you are at risk of not receiving a star rating.

Quality Ratings

=						Adult Car	rdiac Surgery Da	99999
SD Repor	'tS d Dashboard Report	t						
File	Edit Data Visu	ualizations View To	ools User	- Defines are only calcula	to d for Upprost 1 and Uppros	10	•	R T
File	Edit Data Visu: Rating	ualizations View To Partici	Star	r Ratings are only calcula	ated for Harvest 1 and Harves	st 3. STS	•	
			Star	ar Ratings are only calcula Score	ated for Harvest 1 and Harves Min - Max		5 0th	90th
		Partici	Star ipant			STS	50th 96.86%	
Domain	Rating	Partici Score	Star ipant 98% CI	Score	Min - Max	STS 10th		90th

Quality Rating Details

	≡				A	dult Cardiac Surgery Datab 99	999
							Expa
ഷ	File Edit	t Data Visualization	s View Tools	User		• •	τ Ι 🜻
ا ن	The Society of Thoracid Surgeons	y c	Eligible Pro	STS CABG Composite Qua Participant: 99999 STS Period Ending Dec Star Ratings are only calculated for Harvest	2020		(e^
	Quality Domain	Time Period	Eligible Procedures	Detail	*Count	Percent of Morbidity/Failure	e
	Absence of Mortality	Jan 2020 - Dec 2020	457	Mortality	7	-	
	Absence of Morbidity	Jan 2020 - Dec 2020	456	Any Morbidity	25		
				Cerebrovascular Accident only	5	20 %	
				Deep Sternal Infection / Mediastinitis Only	1	4 %	
				Multiple Morbidities	5	20 %	
				Prolonged Ventilation Only	5	20 %	
				Renal Failure Only	1	4 %	
				Reoperation Only	8	32 %	
	Use of IMA	Jan 2020 - Dec 2020	450	IMA Failures	2		
	Medications	Jan 2020 - Dec 2020	457	Failed to Prescribe All Eligible NQF Endorsed Medications	46		
				Failed to Prescribe Multiple Medications	3	6.5 %	

Rating Trends

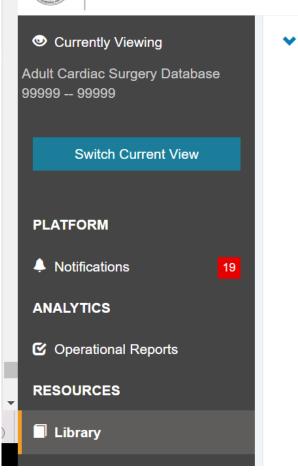
C	File Edit Da	ta Visualizations View To	ools User				()	X	T	ļ
.	The Society of Thoracic Surgeons STS CABG Composite Quality Rating Participant: 99999 STS Period Ending Dec 2020 Star Ratings are only calculated for Harvest 1 and Harvest 3.									¢
	Domain	Jan 2019-Dec 2019	Jul 2019-Jun 2020	Jan 2020-Dec 2020						
	Overall	**	***	***						
	Absence of Mortality	**	**	**						

NQF Measures

								99999
i File Edit	t Data Visualizations	s View Tools	User				•	R T
The Society of Thoracic Surgeons	Surgeons				sures - CABG Process Measures ticipant: 99999 iod Ending Mar 2021			
Domain		Participant			STS			
	Elig Proc	Score	95% CI	Percentile	Score	Min-Max	10th	50th
Preoperative Beta Blockade	390	91.03%	(87.74-93.67)	15.60%	96.45%	(35.00-100.00)	88.04%	98.52
Use of IMA	431	99.54%	(98.33-99.94)	24.10%	99.50%	(83.33-100.00)	98.61%	100.0
Discharge Anti- Platelet Medication	423	100.00%	(99.13-100.00)	100.00%	99.20%	(66.67-100.00)	97.62%	100.0
Discharge Beta	413	99.27%	(97.89-99.85)	35.20%	98.78%	(40.00-100.00)	96.30%	100.0

IQVIA Library





STS National Database"

A P

Other Resources						
	ACSD National Report Analyses Overview - Updated 060302021					
	STS ACSD Multiplier Tables Link - All Harvest periods					
	2021 Harvest 1 Composite Quality Ratings Summary					
	2020 Harvest 3 Composite Quality Ratings Summary.pdf					
	Database Data Collection Resources (ACSD)					
	Database Transition Resources					
	Direct Data Entry FAQ					
	End of Harvest Review Checklist (ACSD)					
	Errors and Warnings UPDATED July 2021					
	Known Issues and Enhancement List (June 2021)					
	Longitudinal Outcomes Dashboard					



Housekeeping Tips

Keep DCF and or your collection notes for at least 4 years.

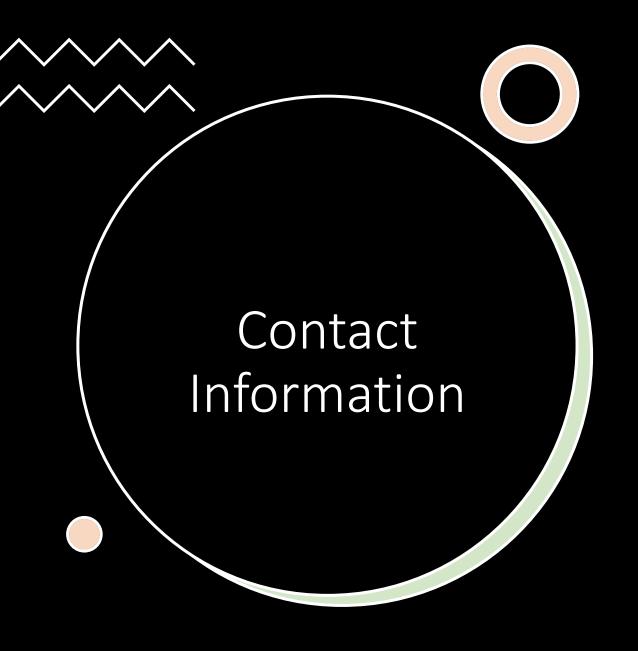
Keep a log of 30-Day Mortality / 30 Day Readmission/ 30 Day DSWI & Infection in the event of an Audit.



Resources

- STS National Database Webpage
- <u>STSTechSupport@IQVIA.com</u> (Uploader, DQR, Missing Variable, Dashboard, Password and Login)
- Phone Support: 1-833-256-7187
- <u>STS National Database Feedback Form</u>
- Resource Documents
 - Contact Information
 - Webinar Information
 - FAQ Document
 - Go-Live Checklist
 - Tiered-level Support Document
 - Training Videos
 - Link to IQVIA
 - ckrohn@sts.org





- Carole Krohn, Sr. Clinical Manager, STS National Database
 - <u>Ckrohn@sts.org</u>
 - 312-202-5847
- Database Operational Questions

• <u>STSDB@sts.org</u>





Open Discussion

Please use the Q&A Function.

We will answer as many questions as possible.

We encourage your feedback and want to hear from you!