STS Adult Cardiac Surgery Database V2.9 Procedure Identification Table

Note, fields in green are new in v2.9x, fields in yellow are added or changed from the v2.81 definition

		PART 1 (PROCID 1 thro	ough 4)	
Variable 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 unsuspected 	 Yes, unplanned due to surgical 	Yes, unplanned due to surgical	 Yes, unplanned due to unsuspected
	disease or anatomy	complication	complication	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/2125	<not calculation="" in="" this="" used=""></not>	• Yes	• Yes	• Yes
OpValve		Opvalve eq 1	Opvalve eq 1	Opvalve eq 1
VSAV/3390	• No	• Yes, planned	• No	• Yes, planned
	• Yes, unplanned due to surgical	• Yes, unplanned due to unsuspected	Yes, unplanned due to surgical	• Yes, unplanned due to unsuspected
	complication	disease or anatomy	complication	disease or anatomy
	Missing		Missing	
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/3495	• No	• No	• Yes, planned	• No
	• Yes, unplanned due to surgical	 Yes, unplanned due to surgical 	Yes, unplanned due to unsuspected	• Yes, unplanned due to surgical
	complication	complication	disease or anatomy	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

Current as of: 11/30/2017

OCarCongProc1	Ocarcongproc1 in (NULL,10,1291,1305)	Ocarcongproc1 in (NULL,10)	Ocarcongproc1 in (NULL,10,20,30)	Ocarcongproc1 in
OCarCongProc2/ 6520	 Missing PFO, Primary closure Anomalous origin of coronary artery from pulmonary artery repair Anomalous aortic origin of coronary artery from aorta (AAOCA) repair 	Missing PFO, Primary closure	Missing PFO, Primary closure ASD repair, Primary closure ASD repair, Patch	 (NULL,10,1291,1305) Missing PFO, Primary closure Anomalous origin of coronary artery from pulmonary artery repair Anomalous aortic origin of coronary artery from aorta (AAOCA) repair
OCarCongProc2	Ocarcongproc2 in (NULL,10,1291,1305)	Ocarcongproc2 in (NULL,10)	Ocarcongproc2 in (NULL,10,20,30)	Ocarcongproc2 in (NULL,10,1291,1305)
OCarCongProc3/ 6525	 Missing PFO, Primary closure Anomalous origin of coronary artery from pulmonary artery repair Anomalous aortic origin of coronary artery from aorta (AAOCA) repair 	Missing PFO, Primary closure	 Missing PFO, Primary closure ASD repair, Primary closure ASD repair, Patch 	 Missing PFO, Primary closure Anomalous origin of coronary artery from pulmonary artery repair Anomalous aortic origin of coronary artery from aorta (AAOCA) repair
OCarCongProc3	Ocarcongproc3 in (NULL,10,1291,1305)	Ocarcongproc3 in (NULL,10)	Ocarcongproc3 in (NULL,10,20,30)	Ocarcongproc3 in (NULL,10,1291,1305)
Tricuspid Procedures: VSTV VSTrReplace VSTrValvec 3640, 3650, 3653	Unplanned Surgical Complications ONLY VSTV is one of: No Yes, unplanned due to surgical complication Missing	Unplanned Surgical Complications ONLY VSTV is one of: No Yes, unplanned due to surgical complication Missing	All tricuspid repairs are allowed. Tricuspid replacements and valvecotomies are only allowed if the tricuspid procedure was unplanned due to surgical complications. Must satisfy at least one of (1) or (2): 1. VSTrReplace: • No • Missing AND VSTrValvec: • No • Missing 2. VSTV	Unplanned Surgical Complications ONLY VSTV is one of: No Yes, unplanned due to surgical complication Missing

			Yes, unplanned due to surgical		
			complication"]		
Tricuspid Procedures: VSTV VSTrReplace VSTrValvec	VSTV in (NULL, 2,4)	VSTV in (NULL, 2,4)	[VSTrReplace in (NULL, 2) and VSTrValvec in (NULL,2)] OR VSTV eq 4	VSTV in (NULL, 2,4)	
VSPV/3685			• No		
		• Yes, unplann	ed due to surgical complication		
		•	• Missing		
VSPV		V	SPV in (NULL, 2,4)		
PrevVADExp/		• Yes, r	not during this procedure		
3825			• No		
			• Missing		
PrevVADExp		PrevVADExp in (NULL, 1,3)			
VADImpTmg/	• Pre-Operative (during same hospitalization but not same OR trip as CV surgical procedure)				
3845	• In conjunction with CV surgical procedure (same trip to the OR)- unplanned				
	• Post-Operative (after surgical procedure during reoperation)				
VADI		VADI	• Missing		
VADImpTmg VADImpTmg2/	. D.		npTmg in (NULL, 1, 4, 5)	1)	
3900	 Pre-Operative (during same hospitalization but not same OR trip as CV surgical procedure) In conjunction with CV surgical procedure (same trip to the OR)- unplanned 				
3700					
	 Post-Operative (after surgical procedure during reoperation) Missing 				
VADImpTmg2		VADIm	pTmg2 in (NULL, 1, 4, 5)		
VADImpTmg3/	• Pr		ization but not same OR trip as CV surgical pro-	cedure)	
3955			ical procedure (same trip to the OR)- unplanned		
			surgical procedure during reoperation)		
		1	• Missing		
VADImpTmg3		VADIm	pTmg3 in (NULL, 1, 4, 5)		
VExp/3875		• Yes, r	not during this procedure		
	• No				
	• Missing				
VExp			Exp in (NULL, 3, 2)		
VExp2/3930		• Yes, r	not during this procedure		
			• No		
	• Missing				
VExp2	VExp2 in (NULL, 3, 2)				

VExp3/3985		• Yes, not du	uring this procedure			
_			• No			
		• Missing				
VExp3		VExp3	in (NULL, 3, 2)			
OCarLVA/4075			• No			
		• Missing				
OCarLVA		OCarL\	A in (NULL, 2)			
OCarVSD/4130			• No			
		•	Missing			
OCarVSD OCARVSD		OCarVS	SD in (NULL, 2)			
AortProc/2125			• No			
		 Yes, unplanned du 	ue to surgical complication			
			Missing			
AortProc		Aortpro	e in (NULL, 2,4)			
EndovasProc/5066			• No			
		• Missing				
EndovasProc			Proc in (NULL, 2)			
OCarAFibIntraLes/4040	• No	• No	<not calculation="" in="" this="" used=""></not>	• No		
OCarAFibIntraLes	Missing OcarAFibIntraLes in (NULL, 2)	• Missing OcarAFibIntraLes in (NULL, 2)		Missing OcarAFibIntraLes in (NULL, 2)		
		, , , , , , , , , , , , , , , , , , , ,	<not calculation="" in="" this="" used=""></not>	* * *		
OCarAFibLesLoc/ 4191	Primarily epicardial Mississer	Primarily epicardial Missing	<not calculation="" in="" this="" used=""></not>	Primarily epicardial		
OCarAFibLesLoc	Missing OCarAFibLesLoc ne 2	Missing OCarAFibLesLoc ne 2		Missing OCarAFibLesLoc ne 2		
OCarASDSec/	No	No	<not calculation="" in="" this="" used=""></not>	No		
4035	• Missing	• Missing	Tion used in this carculations	Missing		
	- Wilsing	- Wissing		17100Mg		
OCarASDSec	OCarASDSec in (NULL, 2)	OCarASDSec in (NULL, 2)		OCarASDSec in (NULL, 2)		
OCarACD/	<not calculation="" in="" this="" used=""></not>	<not calculation="" in="" this="" used=""></not>	• No	<not calculation="" in="" this="" used=""></not>		
4055	• Missing					
		Permanent Pacemaker				
OCarACD OCARACT ACREA CONTRACT			OCarACD in (NULL, 1, 2)			
OCarACDLE/ 4065		• Yes, unplanned du	ne to surgical complication			
4003			• No			
	• Missing					

OCarACDLE	OCarACDLE in (NULL, 2,4)				
OCarLasr/4110	<not calculation="" in="" this="" used=""></not>	<not calculation="" in="" this="" used=""></not>	• No	<not calculation="" in="" this="" used=""></not>	
			Missing		
OCarLasr OCarLasr			OCarLasr in (NULL, 2)		
OCPulThromDis/			• No		
4085			Missing		
OCPulThromDis		OCPulThro	omDis in (NULL, 1)		
OCarSubaStenRes/			• No		
4090			Missing		
OCarSubaStenRes		OCarSubaS	tenRes in (NULL, 2)		
OCarSVR/4105			• No		
			Missing		
OCarSVR		OCarSV	/R in (NULL, 2)		
OCarCrTx/4120			• No		
			Missing		
OCarCrTx		OCarCr	Tx in (NULL, 2)		
OCarTrma/4125	• No				
0.0 m		• Missing			
OCarTrma (4115		OCarTr	ma in (NULL, 2)		
OCTumor/4115			• No		
OCT			Missing		
OCTumor OCarOthr/4135		OCTun	nor in (NULL, 1)		
OCarOthr/4135			• No		
OCarOthr		• Missing OCarOthr in (NULL, 2)			
VSTCV/3400		OCaro	• No		
VS1C V/3400		_	Missing		
VSTCV			V in (NULL, 2)		
VSTCVMit/3610		VSIC	• No		
VSTC VIVIUSOTO			Missing		
VSTCVMit	VSTCVMit in (NULL, 2)				
VSTCVTri/3652		V51CV	• No		
,510,111,3032	• Missing				
VSTCVTri			Tri in (NULL, 2)		
VSTCVPu/3695		, bic ,	• No		
		•	Missing		
VSTCVPu			Pu in (NULL, 2)		
	VOTE VI U III (NOLL, 2)				

CCancCase/2050	• No
	• Missing
CCancCase	CCancCase in (NULL, 2)
ONCCarEn/6530	• No
	• Yes, unplanned due to surgical complication
	• Missing
ONCCarEn	ONCCarEn in (NULL, 2, 4)
ONCOVasc/6535	• No
	 Yes, unplanned due to surgical complication
	• Missing
ONCOVasc	ONCOVasc in (NULL, 2, 4)
ONCOThor/6540	• No
	 Yes, unplanned due to surgical complication
	• Missing
ONCOThor	ONCOThor in (NULL, 2, 4)
ONCOther/6545	• No
	• Yes, unplanned due to surgical complication
	• Missing
ONCOther	ONCOther in (NULL, 2, 4)

		PART 2 (PROCID 5 throu	igh 8)	
Variable Short	MVR + CAB**	AVR + MVR**	MV Repair**	MV Repair + CAB**
Name	(ProcID=5)	(ProcID=6)	(ProcID=7)	(ProcID=8)
OpCAB/2120	• Yes, planned	• No	• No	Yes, planned
	 Yes, unplanned due to unsuspected 	Yes, unplanned due to surgical	• Yes, unplanned due to surgical	• Yes, unplanned due to unsuspected
	disease or anatomy	complication	complication	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/2125	• Yes	• Yes	• Yes	• Yes
OpValve	Opvalve eq 1	Opvalve eq 1	Opvalve eq 1	Opvalve eq 1
VSAV/3390	• No	• Yes, planned	• No	• No
	• Yes, unplanned due to surgical	Yes, unplanned due to unsuspected	• Yes, unplanned due to surgical	Yes, unplanned due to surgical
	complication	disease or anatomy	complication	complication
	Missing		• Missing	Missing
VSAV	VSAV in (NULL, 2,4)	VSAV in (3,5)	VSAV in (NULL, 2,4)	VSAV in (NULL, 2,4)
VSAVPr/3395	<not calculation="" in="" this="" used=""></not>	Replacement	<not calculation="" in="" this="" used=""></not>	<not calculation="" in="" this="" used=""></not>
VSAVPr		VSAVPr eq 1		
VSMV/3495	• Yes, planned	• Yes, planned	• Yes, planned	• Yes, planned
	• Yes, unplanned due to unsuspected	Yes, unplanned due to unsuspected	• Yes, unplanned due to unsuspected	Yes, unplanned due to unsuspected
	disease or anatomy	disease or anatomy	disease or anatomy	disease or anatomy
VSMV	VSMV in (3,5)	VSMV in (3,5)	VSMV in (3,5)	VSMV in (3,5)
VSMVPr/3500	Replacement	Replacement	Repair	Repair
VSMVPr	VSMVPr eq 2	VSMVPr eq 2	VSMVPr eq 1	VSMVPr eq 1
OCarCongProc1/	• Missing	Missing	• Missing	Missing
<mark>6515</mark>	• PFO, Primary closure	PFO, Primary closure	• PFO, Primary closure	PFO, Primary closure
	 Anomalous origin of coronary artery 	ASD repair, Primary closure	 ASD repair, Primary closure 	 Anomalous origin of coronary
	from pulmonary artery repair	ASD repair, Patch	• ASD repair, Patch	artery from pulmonary artery repair
	Anomalous aortic origin of coronary			Anomalous aortic origin of
	artery from aorta (AAOCA) repair			coronary artery from aorta
	• ASD repair, Primary closure			(AAOCA) repair
	• ASD repair, Patch			ASD repair, Primary closure
				ASD repair, Patch
OCarCongProc1	Ocarcongproc1 in (NULL,10,20, 30,1291,1305)	Ocarcongproc1 in (NULL,10,20,30)	Ocarcongproc1 in (NULL,10,20,30)	Ocarcongproc1 in (NULL,10,20,30,1291,1305)
OCarCongProc2/	• Missing	Missing	• Missing	Missing
<mark>6520</mark>	• PFO, Primary closure	• PFO, Primary closure	 PFO, Primary closure 	PFO, Primary closure
	Anomalous origin of coronary artery	ASD repair, Primary closure	 ASD repair, Primary closure 	Anomalous origin of coronary
	from pulmonary artery repair	ASD repair, Patch	ASD repair, Patch	artery from pulmonary artery repair

		PART 2 (PROCID 5 throu	igh 8)	
Variable Short Name	MVR + CAB** (ProcID=5)	AVR + MVR** (ProcID=6)	MV Repair** (ProcID=7)	MV Repair + CAB** (ProcID=8)
	 Anomalous aortic origin of coronary artery from aorta (AAOCA) repair ASD repair, Primary closure ASD repair, Patch 			 Anomalous aortic origin of coronary artery from aorta (AAOCA) repair ASD repair, Primary closure ASD repair, Patch
OCarCongProc2	Ocarcongproc2 in (NULL,10, 20, 30,1291,1305)	Ocarcongproc2 in (NULL,10,20,30)	Ocarcongproc2 in (NULL,10,20,30)	Ocarcongproc2 in (NULL,10, 20, 30,1291,1305)
OCarCongProc3/ 6525	 Missing PFO, Primary closure Anomalous origin of coronary artery from pulmonary artery repair Anomalous aortic origin of coronary artery from aorta (AAOCA) repair ASD repair, Primary closure ASD repair, Patch 	 Missing PFO, Primary closure ASD repair, Primary closure ASD repair, Patch 	 Missing PFO, Primary closure ASD repair, Primary closure ASD repair, Patch 	 Missing PFO, Primary closure Anomalous origin of coronary artery from pulmonary artery repair Anomalous aortic origin of coronary artery from aorta (AAOCA) repair ASD repair, Primary closure ASD repair, Patch
OCarCongProc3	Ocarcongproc3 in (NULL,10, 20, 30,1291,1305)	Ocarcongproc3 in (NULL,10,20,30)	Ocarcongproc3 in (NULL,10,20,30)	Ocarcongproc3 in (NULL,10, 20, 30,1291,1305)
Tricuspid Procedures: VSTV VSTrReplace VSTrValvec/ 3640, 3650, 3653	All tricuspid repairs are allowed. Tricuspid replacements and valvecotomies are only allowed if the tricuspid procedure was unplanned due to surgical complications. Must satisfy at least one of (1) or (2): 1. VSTrReplace: • No • Missing AND VSTrValvec: • No • Missing	All tricuspid repairs are allowed. Tricuspid replacements and valvecotomies are only allowed if the tricuspid procedure was unplanned due to surgical complications. Must satisfy at least one of (1) or (2): 1. VSTrReplace: • No • Missing AND VSTrValvec: • No • Missing	All tricuspid repairs are allowed. Tricuspid replacements and valvecotomies are only allowed if the tricuspid procedure was unplanned due to surgical complications. Must satisfy at least one of (1) or (2): 1. VSTrReplace: • No • Missing AND VSTrValvec: • No • Missing	All tricuspid repairs are allowed. Tricuspid replacements and valvecotomies are only allowed if the tricuspid procedure was unplanned due to surgical complications. Must satisfy at least one of (1) or (2): 1. VSTrReplace: • No • Missing AND VSTrValvec: • No • Missing
	2. VSTV	2. VSTV	2. VSTV	2. VSTV

		PART 2 (PROCID 5 throu	gh 8)		
Variable Short	MVR + CAB**	AVR + MVR**	MV Repair**	MV Repair + CAB**	
Name	(ProcID=5)	(ProcID=6)	(ProcID=7)	(ProcID=8)	
	• Yes, unplanned due to	• Yes, unplanned due to	• Yes, unplanned due to	• Yes, unplanned due to	
Tri mani d	surgical complication"] [VSTrReplace in (NULL, 2) and	surgical complication''] [VSTrReplace in (NULL, 2) and	surgical complication"]	surgical complication"]	
Tricuspid_ Procedures	VSTrValvec in (NULL, 2) and	VSTrValvec in (NULL, 2) and VSTrValvec in (NULL, 2)]	[VSTrReplace in (NULL, 2) and VSTrValvec in (NULL,2)]	[VSTrReplace in (NULL, 2) and VSTrValvec in (NULL,2)]	
VSTV	OR	OR	OR VSTV eq 4	OR	
VSTrReplace	VSTV eq 4	VSTV eq 4	OK VBT V Eq 4	VSTV eq 4	
VSTrValvec		, 51 , 64 ,		, 51 + 64 1	
VSPV/3685		• 1	No		
		 Yes, unplanned due to 	o surgical complication		
		• Mi	<u> </u>		
VSPV			NULL, 2,4)		
PrevVADExp/		• Yes, not durin	-		
3825	• No				
D. WADE	• Missing				
PrevVADExp VADImpTmg/	PrevVADExp in (NULL, 1,3 • Pre-Operative (during same hospitalization but not same OR trip as CV surgical procedure)				
3845	• Pre	 Operative (during same nospitalization of In conjunction with CV surgical proc 	1 0 1	*	
3043		Post-Operative (after surgical)			
		• Mis			
VADImpTmg			n (NULL, 1, 4, 5)		
VADImpTmg2/	Pre-Operative (during same hospitalization but not same OR trip as CV surgical procedure)				
3900	• In conjunction with CV surgical procedure (same trip to the OR)- unplanned				
		 Post-Operative (after surgical 	procedure during reoperation)		
		• Mi	<u> </u>		
VADImpTmg2			in (NULL, 1, 4, 5)		
VADImpTmg3/	• Pre	-Operative (during same hospitalization b			
3955		• In conjunction with CV surgical proc			
	Post-Operative (after surgical procedure during reoperation) Missing				
VADImpTmg3	◆ Missing VADImpTmg3 in (NULL, 1, 4, 5)				
VExp/3875		• Yes, not durin			
	• No				
	• Missing				
VExp			NULL, 3, 2)		
VExp2/3930		• Yes, not durin			

Variable Short Name	MVR + CAB**	AVD MVD**	BATT TO 1 steels		
Name	1				
	(ProcID=5)	(ProcID=6)	(ProcID=7)	(ProcID=8)	
			No issing		
VExp2			(NULL, 3, 2)		
VExp3/3985	• Yes, not during this procedure				
V 2/10/05			No		
			issing		
VExp3		VExp3 in ((NULL, 3, 2)		
OCarLVA/4075		•]	No		
			issing		
OCarLVA			in (NULL, 2)		
OCarVSD/4130			No		
OC Map			issing		
OCarVSD AortProc/2125			in (NULL, 2)		
A011F10C/2123	 No Yes, unplanned due to surgical complication 				
	• Missing				
AortProc			n (NULL, 2,4)		
EndovasProc/5066	• No				
			issing		
EndovasProc			c in (NULL, 2)		
OCarAFibIntraLes	<not calculation="" in="" this="" used=""></not>	<not calculation="" in="" this="" used=""></not>	<not calculation="" in="" this="" used=""></not>	<not calculation="" in="" this="" used=""></not>	
4040 OCarAFibIntraLes					
OCarAFibLesLoc	<not calculation="" in="" this="" used=""></not>	<not calculation="" in="" this="" used=""></not>	<not calculation="" in="" this="" used=""></not>	<not calculation="" in="" this="" used=""></not>	
4191	a for door in this current				
OCarAFibLesLoc					
OCarASDSec OCarASDSec	<not calculation="" in="" this="" used=""></not>	<not calculation="" in="" this="" used=""></not>	<not calculation="" in="" this="" used=""></not>	<not calculation="" in="" this="" used=""></not>	
4035					
OCarASDSec OCarACD					
	• No • Missing	• No • Missing	• No	NoMissing	
4055				Permanent Pacemaker	
OCarACD	OCarACD in (NULL, 1, 2)	OCarACD in (NULL, 1, 2)	OCarACD in (NULL, 1, 2)	OCarACD in (NULL, 1, 2)	
OCarACDLE/4065	(1,022, 1,2)		to surgical complication	(1,022, 1, 2)	
		· •	No		

Name			PART 2 (PROCID 5 throu	gh 8)		
CaraCDLE Courtace Courtace	Variable Short					
OCarACDLE OCarACDLE in (NULL, 2.4)	Name	(ProcID=5)	` /	` /	(ProcID=8)	
No						
Missing						
OCarLasr in (NULL, 2)	OCarLasr/4110					
OCPulThromDis						
A085 OCPuThromDis OCPuThromDis in (NULL, 1) OCarSubaStenRes/ 4090 Missing OCarSubaStenRes/ 4090 Missing OCarSubaStenRes/ 4090 Missing OCarSubaStenRes OCarSubaStenRes in (NULL, 2) OCarSVR OCarSVR OCarSVR OCarSVR OCarSVR OCarSVR OCarSVR OCarS		OCarLasr in (NULL, 2)		` ' '	OCarLasr in (NULL, 2)	
OCPulThromDis OCPulThromDis in (NULL, 1) OCarSubaStenRes/d900 No OCarSubaStenRes OCarSubaStenRes in (NULL, 2) OCarSVR.4105 No OCarSVR No OCarCrTx.4120 No OCarCrTx.4120 No OCarCrTx No OCarTrma/4125 No OCarTrma/4125 No OCarTrma OCarTrma in (NULL, 2) OCTumor/4115 No OCTumor/4115 No OCTumor OCTumor in (NULL, 1) OCarOthr/4135 No Missing No OCarOthr OCarOthr in (NULL, 2) VSTCV/3400 No Missing No STCVMit/3610 No Missing No STCVMit No VSTCVMit No NSTCVMit No NSTCVTri/3652 No						
OCarSubaStenRes/ 4090 • No • Missing OCarSubStenRes in (NULL, 2) OCarSubAStenRes in (NULL, 2) OCarSVR/4105 • No • Missing OCarSVR • OCarSVR in (NULL, 2) OCarCTX/4120 • No • Missing OCarCTX • OCarCTX in (NULL, 2) OCarTrma/4125 • No • Missing OCarTrma in (NULL, 2) • No • Missing OCTumor/4115 • No • Missing OCTumor in (NULL, 1) • OCarOthr/4135 OCarOthr • OCarOthr in (NULL, 2) VSTCV/3400 • No • Missing VSTCV • VSTCV in (NULL, 2) VSTCV Mit • No • Missing VSTCVMit • No • Missing VSTCVMit • No • Missing						
4090 • Missing OCarSubaStenRes OCarSubaStenRes in (NULL, 2) OCarSVR/4105 • No OCarSVR • OCarSVR in (NULL, 2) OCarCYTx/4120 • No OCarCTTx • Missing OCarCTTx • No • Missing OCarTrma/4125 • No • No • No • No • No • OCarTrma • No • No • No • OCarTrma in (NULL, 2) • No • No • No • OCTumor/4115 • No • OCTumor/4116 • No • OCTumor in (NULL, 1) • No • OCarOthr/4135 • No • No • Missing OCarOthr • OCarOthr in (NULL, 2) VSTCV/3400 • No • VSTCV/Mit/3610 • No • VSTCVMit in (NULL, 2) VSTCVMit • VSTCVMit in (NULL, 2) VSTCVMit • VSTCVMit in (NULL, 2)				` ' /		
OCarSubaStenRes OCarSubaStenRes in (NULL, 2) OCarSVR/4105 • No • Missing OCarSVR • OCarSVR in (NULL, 2) OCarCrTx/4120 • No • Missing • OCarCrTx in (NULL, 2) OCarCrTx • CoarCrTx in (NULL, 2) OCarTrma/4125 • No • Missing • OCarTma in (NULL, 2) OCTumor/4115 • No • Missing • No • Missing • No • Missing • No • Missing • No • No • Missing OCTumor in (NULL, 1) • No • Missing						
OCarSVR/4105 • No OCarSVR • OCarSVR in (NULL, 2) OCarCrTx/4120 • No • Missing OCarCrTx • OCarCrTx in (NULL, 2) OCarTrma/4125 • No • Missing OCarTrma • OCarTrma in (NULL, 2) OCTumor/4115 • No • Missing OCTumor/4155 • No • Missing OCTumor • OCTumor in (NULL, 1) OCarOthr/4135 • No • Missing OCarOthr • OCarOthr in (NULL, 2) VSTCV/3400 • No • Missing VSTCV • VSTCV in (NULL, 2) VSTCV • No • Missing VSTCVMit/3610 • No • Missing • VSTCVMit in (NULL, 2) VSTCVMit • VSTCVMit in (NULL, 2) VSTCVTri/3652 • No						
OCarSVR • OCarSVR in (NULL, 2) OCarCrTx/4120 • No • Missing • OCarCrTx in (NULL, 2) OCarCrTma/4125 • No • Missing • Missing OCarTrma • OCarTrma in (NULL, 2) OCTumor/4115 • No • Missing • OCTumor in (NULL, 1) OCarOthr/4135 • No • Missing • No • Missing • No • Missing • No • Missing • No • WSTCV/3400 • No • WSTCV • VSTCV in (NULL, 2) VSTCV • VSTCV in (NULL, 2) VSTCVMit/3610 • No • WSTCVMit in (NULL, 2) • No • Missing • No • No • Missing • VSTCVINI in (NULL, 2) • No • No • No				. , ,		
OCarCrTx/4120 • No OCarCrTx • OCarCrTx in (NULL, 2) OCarTrma/4125 • No • Missing OCarTrma • OCarTrma in (NULL, 2) OCTumor/4115 • No • Missing OCTumor • OCTumor in (NULL, 1) OCarOthr/4135 • No • Missing OCarOthr • OCarOthr in (NULL, 2) VSTCV/3400 • No • Missing VSTCV • VSTCV in (NULL, 2) VSTCV • VSTCV in (NULL, 2) VSTCVMit/3610 • No • Missing • No • WSTCVMit in (NULL, 2) • No • WSTCVMit in (NULL, 2) • No						
OCarCrTx	OCarSVR		• OCarSVR i	n (NULL, 2)		
OCarCrTx • OCarCrTx in (NULL, 2) OCarTrma/4125 • No • Missing OCarTrma • OCarTrma in (NULL, 2) OCTumor/4115 • No • Missing OCTumor • OCTumor in (NULL, 1) OCarOthr/4135 • No • Missing OCarOthr • OCarOthr in (NULL, 2) VSTCV/3400 • No • Missing VSTCV • VSTCV in (NULL, 2) VSTCV in (NULL, 2) VSTCVMit/3610 • No • Missing VSTCVMit • VSTCVMit in (NULL, 2) VSTCVMit • VSTCVMit in (NULL, 2)	OCarCrTx/4120					
OCarTrma/4125 • No • Missing OCTumor/4115 • No • OCTumor in (NULL, 2) OCTumor • OCTumor in (NULL, 1) OCarOthr/4135 • No • Missing OCarOthr • No • Missing OCarOthr • No • Missing VSTCV/3400 • No • Missing VSTCV • VSTCV in (NULL, 2) VSTCVMit/3610 • No • Missing VSTCVMit • VSTCVMit in (NULL, 2) VSTCVMit • VSTCVMit in (NULL, 2)		• Missing				
OCarTrma ● Missing OCTumor/4115 • No OCTumor • OCTumor in (NULL, 1) OCarOthr/4135 • No • Missing OCarOthr • No • Missing VSTCV/3400 • OCarOthr in (NULL, 2) VSTCV • No • Missing VSTCV • VSTCV in (NULL, 2) VSTCVMit/3610 • No • Missing VSTCVMit • VSTCVMit in (NULL, 2) VSTCVMit • VSTCVMit in (NULL, 2)						
OCarTrma • OCarTrma in (NULL, 2) OCTumor/4115 • No • Missing OCTumor • OCTumor in (NULL, 1) OCarOthr/4135 • No • Missing OCarOthr • OCarOthr in (NULL, 2) VSTCV/3400 • No • Missing VSTCV • VSTCV in (NULL, 2) VSTCV • No • Missing VSTCVMit/3610 • No • Missing VSTCVMit • VSTCVMit in (NULL, 2) VSTCVMit • VSTCVMit in (NULL, 2)	OCarTrma/4125					
OCTumor/4115 • No • Missing OCTumor • OCTumor in (NULL, 1) OCarOthr/4135 • No • Missing OCarOthr • OCarOthr in (NULL, 2) VSTCV/3400 • No • Missing VSTCV • VSTCV in (NULL, 2) VSTCV Mit/3610 • No • Missing VSTCVMit • VSTCVMit in (NULL, 2) VSTCVMit • VSTCVMit in (NULL, 2) VSTCVTri/3652 • No		ÿ				
OCTumor • Missing OCarOthr/4135 • No • Missing OCarOthr • OCarOthr in (NULL, 2) VSTCV/3400 • No • Missing VSTCV • VSTCV in (NULL, 2) VSTCV Wit/3610 • No • Missing VSTCVMit • VSTCVMit in (NULL, 2) VSTCVMit • VSTCVMit in (NULL, 2) VSTCVTri/3652 • No						
OCTumor • OCTumor in (NULL, 1) OCarOthr/4135 • No • Missing OCarOthr • OCarOthr in (NULL, 2) VSTCV/3400 • No • Missing VSTCV • VSTCV in (NULL, 2) VSTCVMit/3610 • No • Missing VSTCVMit • VSTCVMit in (NULL, 2) VSTCVMit • VSTCVMit in (NULL, 2) VSTCVTri/3652 • No	OCTumor/4115					
OCarOthr/4135 • No • Missing OCarOthr • OCarOthr in (NULL, 2) VSTCV/3400 • No • Missing VSTCV • VSTCV in (NULL, 2) VSTCVMit/3610 • No • Missing VSTCVMit • VSTCVMit in (NULL, 2) VSTCVMit • VSTCVMit in (NULL, 2) VSTCVTri/3652 • No	OCE	· ·				
OCarOthr • Missing VSTCV/3400 • No • Missing VSTCV • VSTCV in (NULL, 2) VSTCVMit/3610 • No • Missing VSTCVMit • No • Missing VSTCVMit • VSTCVMit in (NULL, 2) VSTCVTri/3652 • No						
OCarOthr • OCarOthr in (NULL, 2) VSTCV/3400 • No • Missing VSTCV • VSTCV in (NULL, 2) VSTCVMit/3610 • No • Missing VSTCVMit • VSTCVMit in (NULL, 2) VSTCVTri/3652 • No	OCarOthr/4135					
VSTCV/3400	OCorOthr.	Ü				
VSTCV ● VSTCV in (NULL, 2) VSTCVMit/3610 ● No VSTCVMit ● Missing VSTCVMit ● VSTCVMit in (NULL, 2) VSTCVTri/3652 ● No						
VSTCV • VSTCV in (NULL, 2) VSTCVMit/3610 • No • Missing VSTCVMit • VSTCVMit in (NULL, 2) VSTCVTri/3652 • No	VS1C V/3400					
VSTCVMit/3610	VSTCV					
◆ Missing VSTCVMit ◆ VSTCVMit in (NULL, 2) VSTCVTri/3652 ◆ No						
VSTCVMit in (NULL, 2) VSTCVTri/3652 • No	, 210 , 1,110 3010					
VSTCVTri/3652 • No	VSTCVMit					

		PART 2 (PROCID 5 throu	PART 2 (PROCID 5 through 8)				
Variable Short	MVR + CAB**	AVR + MVR**	MV Repair**	MV Repair + CAB**			
Name	(ProcID=5)	(ProcID=6)	(ProcID=7)	(ProcID=8)			
VSTCVTri		• VSTCVTri	in (NULL, 2)				
VSTCVPu/3695		• N	No.				
		• Mis	ssing				
VSTCVPu		• VSTCVPu i	n (NULL, 2)				
CCancCase/2050		• 1	10				
		• Mis	<u> </u>				
CCancCase		• CCancCase	in (NULL, 2)				
ONCCarEn/6530		• 1	1o				
		 Yes, unplanned due to 	= =				
		• Mis	ŭ				
ONCCarEn		• ONCCarEn ii	n (NULL, 2, 4)				
ONCOVasc/6535		• No					
		• Yes, unplanned due to	-				
	• Missing						
ONCOVasc	• ONCOVasc in (NULL, 2, 4)						
ONCOThor/6540		• No					
		• Yes, unplanned due to surgical complication					
277.00.000	• Missing						
ONCOThor		• ONCOThor in (NULL, 2, 4)					
ONCOther/6545	• No						
	• Yes, unplanned due to surgical complication						
0)1001		• Mis	•				
ONCOther		ONCOther in	(NULL, 2, 4)				

**For Version 2.9 - Please note that the ProcID algorithms for all Mitral Valve Procedures now also include intracardiac lesions and tricuspid repairs. Since it is common practice to do a full Maze procedure and/or an occasional tricuspid repair STS Leadership wanted to keep these cases in the MV Risk Algorithms.

The following fields are no longer collected:

AortProcTEVAR – replaced by EndovascProc

OpTricus – replaced by VSTrRepair, VSTrReplace, and VSTrValvec