STS Adult Cardiac Surgery Database V4.20_Final Procedure Identification Table

	ingits: changes from previous vers	PART 1 (PROCID 1 thro	ngh 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	• 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			
	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)

Green highlights: changes from previous version of this document.

OCarCongProc2/ 6520	 Missing No Other Congenital Procedures PFO, Primary closure Anomalous origin of coronary artery from pulmonary artery repair Anomalous aortic origin of coronary artery from aorta (AAOCA) repair 	 Missing No Other Congenital Procedures PFO, Primary closure 	 Missing No Other Congenital Procedures PFO, Primary closure ASD repair, Primary closure ASD repair, Patch 	 Missing No Other Congenital Procedures 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,1,10,1291,1305)	Ocarcongproc2 in (NULL,1,10)	Ocarcongproc2 in (NULL,1, 10,20,30)	Ocarcongproc2 in (NULL,1, 10,1291,1305)
OCarCongProc3/ 6525	 Missing No Other Congenital Procedures PFO, Primary closure Anomalous origin of coronary artery from pulmonary artery repair Anomalous aortic origin of coronary artery from aorta (AAOCA) repair 	 Missing No Other Congenital Procedures PFO, Primary closure 	 Missing No Other Congenital Procedures PFO, Primary closure ASD repair, Primary closure ASD repair, Patch 	 Missing No Other Congenital Procedures 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,1,10,1291,1305)	Ocarcongproc3 in (NULL,1,10)	Ocarcongproc3 in (NULL,1,10,20,30)	Ocarcongproc3 in (NULL,1,10,1291,1305)
Tricuspid Procedures: VSTV/2134 VSTrPr/3636 VSTrValvec/3683	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 or surgical prosthetic valve intervention – Not explant of valve or Valvectomies are only allowed if the tricuspid procedure was unplanned due to surgical complications. Must satisfy at least one of (1) or (2): 1. VSTrPr: • Repair • Missing AND VsTrValvec • No	Unplanned Surgical Complications ONLY VSTV is one of : • No • Yes, unplanned due to surgical complication • Missing

			 Missing 2. VSTV Yes, unplanned due to surgical complication" No 	1	
Tricuspid Procedures: VSTV VSTrPr VSTrValvec	VSTV in (NULL, 2,4)	VSTV in (NULL, 2,4)	Missing [VSTrPr in (NULL, 1) AND VsTrValvec in (NULL, 2)] OR VSTV in (NULL, 2, 4)	VSTV in (NULL, 2,4)	
VSPV/2135			Nos, unplanned due to surgical complicationMissing		
VSPV			PV in (NULL, 2,4)		
PrevVADExp/ 3825		• Yes	not during this procedureNo		
			 Missing 		
PrevVADExp		Pre	VADExp in (NULL, 1,3)		
VADImpTmg/			e hospitalization and prior to OR trip for 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/			Tmg in (NULL, 1, 4, 5) e hospitalization and prior to OR trip for CV s		
3900			CV surgical procedure (same trip to the OR)		
			tive (after surgical procedure during reoperati		
			Missing		
VADImpTmg2		VADImp	Tmg2 in (NULL, 1, 4, 5)		
VADImpTmg3/		*	e hospitalization and prior to OR trip for CV	surgical procedure)	
3955	 In conjunction with CV surgical procedure (same trip to the OR)- unplanned 				
		Post-Opera	tive (after surgical procedure during reoperati	on)	
			Missing		
VADImpTmg3			Гmg3 in (NULL, 1, 4, 5)		
VExp/3875		•	Yes, not during this procedure		
			• No		
			Missing		

VExp		VExp i	n (NULL, 3, 2)	
VExp2/3930		•	Yes, not during this procedure	
	• No			
			• Missing	
VExp2			in (NULL, 3, 2)	
VExp3/3985		•	Yes, not during this procedure	
			• No	
			• Missing	
VExp3		VExp3	in (NULL, 3, 2)	
OCarLVA/4054			• No	
			Missing	
OCarLVA		OCarLV	'A in (NULL, 2)	
OCarAcqVSD/4131			• No	
			• Missing	
OCarAcqVSD		OCar <mark>Acq</mark>	VSD in (NULL, 2)	
AortProc/2123			• No	
		• Yes, u	planned due to surgical complication	
			Missing	
AortProc		Aortprod	c in (NULL, 2,4)	
EndovasProc/5066	• No			
			Missing	
EndovasProc			Proc in (NULL, 2)	
OCarAFibLesLoc/	Epicardial	Epicardial	<not calculation="" in="" this="" used=""></not>	• Epicardial
4191	• None	• None		• None
	Missing	Missing		Missing
OCarAFibLesLoc	OCarAFibLesLoc not in(2,3)	OCarAFibLesLoc not in(2,3)		OCarAFibLesLoc not in(2,3)
OCardASDRep/	• No	• No	<not calculation="" in="" this="" used=""></not>	• No
4136	Missing	• Missing		• Missing
OCar <mark>d</mark> ASDRep	OCardASDRep in (NULL, 2)	OCardASDRep in (NULL, 2)		OCar <mark>d</mark> ASDRep in (NULL, 2)
OCarACD/	<not calculation="" in="" this="" used=""></not>	<not calculation="" in="" this="" used=""></not>	• None	<not calculation="" in="" this="" used=""></not>
4055			Missing	
			• Pacemaker	
OCarACD			OCarACD in (NULL, 1, 2)	

OCarACDLE/		• Yes, unplanned due to	surgical complication		
4065	• No				
		• Mis			
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 in (NULL, 2)		
OCPulThromDis/		•	No		
4052			Missing		
OCPulThromDis			Dis in (NULL, 1)		
OCarSubaStenResTy			No		
/			Missing		
4051			Documented		
OCarSubaStenResTy			esTy in (NULL, 5,7)		
OCarCrTx/4120			No		
	Missing				
OCarCrTx			x in (NULL, 2)		
OCarTrma/4125			No		
			Missing		
OCarTrma			a in (NULL, 2)		
OCTumor/4115			No		
			Missing		
OCTumor			r in (NULL, 1)		
OCarOthr/4135			No		
			Missing		
OCarOthr			r in (NULL, 2)		
VSTCV/3400			No		
LIGTOLI			Missing		
VSTCV			in (NULL, 2)		
VSTCVMit/3610			No		
			Missing		
VSTCVMit			it in (NULL, 2)		
VSTCVTri/3652			No		
	Missing VSTCVTri in (NULL, 2)				
VSTCVTri					
VSTCVPu/3695			No		
		• N	lissing		

VSTCVPu	VSTCVPu 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 Name	MVR + CAB** (ProcID=5)	AVR + MVR** (ProcID=6)	MV Repair** (ProcID=7)	MV Repair + CAB** (ProcID=8)
OpCAB/2120	• Yes, planned	• No	• No	• Yes, planned
	• Yes, unplanned due to unsuspected disease or anatomy	• Yes, unplanned due to surgical complication	• Yes, unplanned due to surgical complication	• Yes, unplanned due to unsuspected disease or anatomy
OpCAB	OpCAB in(3,5)	• Missing OpCab in (NULL, 2,4)	Missing OpCab in (NULL, 2,4)	OpCAB in(3,5)
OpValve/2125	• Yes	• Yes	• Yes	• Yes
OpValve OpValve	• Tes Opvalve eq 1	Opvalve eq 1	Opvalve eq 1	Opvalve eq 1
VSAV/3390	No	• Yes, planned	• No	• No
V3AV/3370	 Yes, unplanned due to surgical complication Missing 	 Yes, unplanned due to unsuspected disease or anatomy 	 Yes, unplanned due to surgical complication Missing 	 Yes, unplanned due to surgical complication 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		Crot used in this calculation>
VSMV/3495	Yes, plannedYes, unplanned due to unsuspected	Yes, plannedYes, unplanned due to unsuspected	Yes, plannedYes, unplanned due to unsuspected	Yes, plannedYes, 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/ 6515	 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
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/ 6520	 Missing No Other Congenital Procedures PFO, Primary closure 	 Missing No Other Congenital Procedures PFO, Primary closure ASD repair, Primary closure 	 Missing No Other Congenital Procedures PFO, Primary closure ASD repair, Primary closure 	MissingNo Other Congenital ProceduresPFO, Primary closure

		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 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 	• ASD repair, Patch	• ASD repair, Patch	 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
OCarCongProc2	Ocarcongproc2 in (NULL,1,10, 20, 30,1291,1305)	Ocarcongproc2 in (NULL,1,10,20,30)	Ocarcongproc2 in (NULL,1,10,20,30)	Ocarcongproc2 in (NULL,1,10, 20, 30,1291,1305)
OCarCongProc3/ 6525	 Missing No Other Congenital Procedures 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 No Other Congenital Procedures PFO, Primary closure ASD repair, Primary closure ASD repair, Patch 	 Missing No Other Congenital Procedures PFO, Primary closure ASD repair, Primary closure ASD repair, Patch 	 Missing No Other Congenital Procedures 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,1,10, 20, 30,1291,1305)	Ocarcongproc3 in (NULL,1,10,20,30)	Ocarcongproc3 in (NULL,1,10,20,30)	Ocarcongproc3 in (NULL,1,10, 20, 30,1291,1305)
Tricuspid Procedures: VSTV/2134 VSTrPr/3636 VSTrValvec/3683	All tricuspid repairs are allowed. Tricuspid replacements or surgical prosthetic valve intervention – Not explant of valve or Valvectomies are only allowed if the tricuspid procedure was unplanned due to surgical complications. Must satisfy at least one of (1) or (2): 1. VSTrPr: • Repair • Missing AND VsTrValvec • No	All tricuspid repairs are allowed. Tricuspid replacements or surgical prosthetic valve intervention – Not explant of valve or Valvectomies are only allowed if the tricuspid procedure was unplanned due to surgical complications. Must satisfy at least one of (1) or (2): 1. VSTrPr: • Repair • Missing AND VsTrValvec • No	All tricuspid repairs are allowed. Tricuspid replacements or surgical prosthetic valve intervention – Not explant of valve or Valvectomies are only allowed if the tricuspid procedure was unplanned due to surgical complications. Must satisfy at least one of (1) or (2): 1. VSTrPr: • Repair • Missing AND VsTrValvec • No	All tricuspid repairs are allowed. Tricuspid replacements or surgical prosthetic valve intervention – Not explant of valve or Valvectomies are only allowed if the tricuspid procedure was unplanned due to surgical complications. Must satisfy at least one of (1) or (2): 1. VSTrPr: • Repair • Missing AND VsTrValvec • No

	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)
	• Missing	• Missing	• Missing	• Missing
	2.	2.	2.	2.
	VSTV	VSTV	VSTV	VSTV
	• Yes, unplanned due to	• Yes, unplanned due to	• Yes, unplanned due to	• Yes, unplanned due to
	surgical complication" • No	surgical complication" • No	surgical complication" • No	surgical complication" • No
Tricuspid	Missing [VSTrPr in (NULL, 1) AND	Missing [VSTrPr in (NULL, 1) AND	• Missing [VSTrPr in (NULL, 1) AND	Missing [VSTrPr in (NULL, 1) AND
Procedures	VsTrValvec in (NULL, 2)]	VsTrValvec in (NULL, 2)]	VsTrValvec in (NULL, 2)]	VsTrValvec in (NULL, 2)]
VSTV	OR	OR	OR	OR
VSTrPr	VSTV in (NULL, 2, 4)	VSTV in (NULL, 2, 4)	VSTV in (NULL, 2, 4)	VSTV in (NULL, 2, 4)
VSTrValvec				
VSPV/3685		• N	lo	
	• Yes, unplanned due to surgical complication			
	• Missing			
VSPV		VSPV in (NULL, 2,4)	
PrevVADExp/		• Yes, not during		
3825		• N		
		• Mis		
PrevVADExp			in (NULL, 1,3	
VADImpTmg/	• Pre-	Operative (during same hospitalization b		edure)
3845		• In conjunction with CV surgical proce	· · · ·	
		Post-Operative (after surgical		
VADI		• Mis	0	
VADImpTmg VADImpTmg2/	. Dra	Operative (during same hospitalization b	n (NULL, 1, 4, 5)	- 1
3900	• Pre-	• In conjunction with CV surgical proce		edure)
5700		5 0 1	· · · ·	
	Post-Operative (after surgical procedure during reoperation) Missing			
VADImpTmg2	Missing VADImpTmg2 in (NULL, 1, 4, 5)			
VADImpTmg2/	• Pre-	Operative (during same hospitalization b		edure)
3955		In conjunction with CV surgical process		
		Post-Operative (after surgical		
		• Mis		
VADImpTmg3			n (NULL, 1, 4, 5)	

		PART 2 (PROCID 5 thro	ugh 8)		
Variable Short	MVR + CAB**	AVR + MVR**	MV Repair**	MV Repair + CAB**	
Name	(ProcID=5)	(ProcID=6)	(ProcID=7)	(ProcID=8)	
VExp/3875			ng this procedure		
			No		
		• Missing			
VExp			(NULL, 3, 2)		
VExp2/3930			ng this procedure		
			No		
			issing		
VExp2			(NULL, 3, 2)		
VExp3/3985			ng this procedure		
			No issing		
VExp3			(NULL, 3, 2)		
OCarLVA/4075					
OCall VA/4075		• No			
OCarLVA		Missing OCarLVA in (NULL, 2)			
OCarAcqVSD/413			No		
1			issing		
		- 111	loomg		
OCarAcqVSD		OCar <mark>Acq</mark> VS	D in (NULL, 2)		
AortProc/2125		•	No		
		• Yes, unplanned due	to surgical complication		
			issing		
AortProc			n (NULL, 2,4)		
EndovasProc/5066			No		
			issing		
EndovasProc			c in (NULL, 2)		
OCarAFibLesLoc/	<not calculation="" in="" this="" used=""></not>				
4191 OCarAFibLesLoc					
OCarAFibLesLoc OCardASDRep/	<not calculation="" in="" this="" used=""></not>				
4136	<110t used in this calculation>	<not calculation="" in="" this="" used=""></not>			
OCar <mark>d</mark> ASDRep					
OCarACD	• None	• None	• None	None	
4055	• Missing	Missing	• Missing	Missing	
	Pacemaker	Pacemaker	Pacemaker	Pacemaker	
ч	- acciniunter	- acomunor	- uterhunter	- acomunor	

	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)
OCarACD	OCarACD in (NULL, 1, 2)	OCarACD in (NULL, 1, 2)	OCarACD in (NULL, 1, 2)	OCarACD in (NULL, 1, 2)
OCarACDLE/4065		• Yes, unplanned due to	o surgical complication	
		• 1	No	
		• Mi	ssing	
OCarACDLE			in (NULL, 2,4)	
OCarLasr/4110	• No	• No	• No	• No
	• Missing	• Missing	• Missing	• Missing
OCarLasr	OCarLasr in (NULL, 2)	OCarLasr in (NULL, 2)	OCarLasr in (NULL, 2)	OCarLasr in (NULL, 2)
OCPulThromDis/			No	
4085		• Mi		
OCPulThromDis			Dis in (NULL, 1)	
OCarSubaStenRes		•]		
Ty/		• Mi	0	
4051		• Not Do		
OCarSubaStenRes		OCarSubaStenRe	sTy in (NULL, 5,7)	
Ту				
OCarCrTx/4120		• 1		
		• Mi	6	
OCarCrTx		OCarCrTx in		
OCarTrma/4125		1 •		
			ssing	
OCarTrma		OCarTrma in		
OCTumor/4115		1•		
OCT			ssing	
OCTumor		OCTumor in		
OCarOthr/4135			No	
00.01		• Mi		
OCarOthr		OCarOthr in		
VSTCV/3400			No	
VETON		• Mit		
VSTCV VSTCVMit/3610		VSTCV in (NULL, 2) • No		
v51CvMit/3610				
NOTONA			ssing	
VSTCVMit		VSTCVMit i		
VSTCVTri/3652	• No			

		PART 2 (PROCID 5 throu	ugh 8)		
Variable Short	MVR + CAB**	AVR + MVR**	MV Repair**	MV Repair + CAB**	
Name	(ProcID=5)	(ProcID=6)	(ProcID=7)	(ProcID=8)	
		• Mi	ssing		
VSTCVTri		VSTCVTri	in (NULL, 2)		
VSTCVPu/3695		•	No		
			ssing		
VSTCVPu		VSTCVPu i	n (NULL, 2)		
ONCCarEn/6530		•	No		
		 Yes, unplanned due t 	o surgical complication		
			ssing		
ONCCarEn			n (NULL, 2, 4)		
ONCOVasc/6535			No		
	 Yes, unplanned due to surgical complication 				
			ssing		
ONCOVasc			in (NULL, 2, 4)		
ONCOThor/6540	• No				
	 Yes, unplanned due to surgical complication 				
			ssing		
ONCOThor			in (NULL, 2, 4)		
ONCOther/6545	• No				
	• Yes, unplanned due to surgical complication				
			ssing		
ONCOther			n (NULL, 2, 4)		
	PtAcuteHospStill [7005]=Yes, then				
	heter valve procedures are remove	ed from analysis before applying	g this PROCID algorithm. Transc	catheters are defined as	
follows:					
Aortic: vstcv eq 1 or (v	1				
	404,412,262,263,423,424, 445,446,447,4		,502,505,506,507,508,509))		
	r vsmvrepapp eq 1 or mitralimplantty in(
	ULL and vsmvrepapp eq NULL and mitt		2 502 505 506 507 508 500		
	404 , 412 , 262 , 263 , 423 , 424 , 445 , 446 , 447 , . I or tricusimplantty in(4) or (vstcvtri eq N				
	54,404,412,262,263,423,424, 445,446,44				
	1 or pulmonic implantty in (4) or (vstcvpu				

vspuim in(264, 404, 412, 262,263,423,424, 445,446,447,448,449,450,451,452,468,477,478,498,502,505,506,507,508,509))

The following fields from 2.9 data version are no longer collected in 4.20.2:

VSTrReplace and VSTrRepair – Substituted by VSTrPr (1=Repair/2=Replacement/3=Surgical Prosthetic Valve Intervention (Not explant of valve))

OCarVSD – Substituted by OCarAcqVSD

OCarAfibIntraLes - We only use OCarAFibLesLoc to retain EPICARDIAL location in PROCID 1,2,4.

OCarASDSec – Substituted by OCardASDRep

OCarSubaStenRes – Substituted by OCarSubaStenResTy

OCarSVR - No longer collected. These procedures are now included in OCarOthr (4135) - Other Cardiac Procedures.

CCancCase - No longer collected.

The following fields have been changed or have different options.

VSAVPr (1=Replacement/2=Repair) TO (1=Replacement/2=Repair/3=Surgical Prosthetic Valve Intervention (Not explant of valve)) VSMVPr (1=Repair/2=Replacement) TO (1=Repair/2=Replacement/3=Surgical Prosthetic Valve Intervention (Not explant of valve)) By consensus, conference call 6/5/2020: Option 3 (Surgical Prosthetic Intervention) is not considered a Replacement nor a Repair. We ignore this code option when defining REPLACEMENTS and when defining MV REPAIRS.

As a concomitant procedure, it is only allowed if VSMV and VSAV are UNPLANNED, DUE TO SURGICAL COMPLICATIONS.

VSTrPr (VSTrRepair Yes/No and VSTrReplace Yes/No and VSTrValvec Yes/No) REPLACED BY (VSTrPr:

1=Repair/2=Replacement/3=Surgical Prosthetic Valve Intervention (Not explant of valve)).

By consensus, conference call 6/5/2020: Option 3 is ignored. For Mitral Valve Isolated Procedures (PROCID 3,5,6,7,8) we allowed only VSTrPr=1 Repair or Null. Replacements and Surgical Prosthetic Interventions are only allowed if VSTV=Unplanned, due to surgical complications.