

STS Adult Cardiac Surgery Database V2.81
 Procedure Identification Table – Modified for QMTF Mitral Valve Population

Current as of: 02/08/2018

Note, fields in **green** are new in v2.81

Note: fields modified from original ProcID definition are in **blue**

Variable Short Name	Isolated CAB (ProcID=1)	Isolated AVR (ProcID=2)	Isolated MVR (ProcID=3)	AVR + CAB (ProcID=4)
OpCAB	<ul style="list-style-type: none"> • Yes, planned • Yes, unplanned due to unsuspected disease/anatomy 	<ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing 	<ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing 	<ul style="list-style-type: none"> • Yes, planned • Yes, unplanned due to unsuspected disease/anatomy
OpValve	<Not used in this calculation>	• Yes	• Yes	• Yes
VSAV	<ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing 	<ul style="list-style-type: none"> • Yes, planned • Yes, unplanned due to unsuspected disease or anatomy 	<ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing 	<ul style="list-style-type: none"> • Yes, planned • Yes, unplanned due to unsuspected disease or anatomy
VSAVPr	<Not used in this calculation>	• Replacement	<Not used in this calculation>	• Replacement
VSMV	<ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing 	<ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing 	<ul style="list-style-type: none"> • Yes, planned • Yes, unplanned due to unsuspected disease or anatomy 	<ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing
VSMVPr	<Not used in this calculation>	<Not used in this calculation>	• Replacement	<Not used in this calculation>
OCarCongProc1	<ul style="list-style-type: none"> • Missing • PFO, Primary closure • Anomalous origin of coronary artery from pulmonary artery repair • Anomalous aortic origin of coronary artery from aorta (AAOCA) repair 	<ul style="list-style-type: none"> • Missing • PFO, Primary closure 	<ul style="list-style-type: none"> • Missing • PFO, Primary closure • ASD repair, Primary closure • ASD repair, Patch 	<ul style="list-style-type: none"> • Missing • PFO, Primary closure • Anomalous origin of coronary artery from pulmonary artery repair • Anomalous aortic origin of coronary artery from aorta (AAOCA) repair
OCarCongProc2	<ul style="list-style-type: none"> • Missing • PFO, Primary closure • Anomalous origin of coronary artery from pulmonary artery repair 	<ul style="list-style-type: none"> • Missing • PFO, Primary closure 	<ul style="list-style-type: none"> • Missing • PFO, Primary closure • ASD repair, Primary closure • ASD repair, Patch 	<ul style="list-style-type: none"> • Missing • PFO, Primary closure • Anomalous origin of coronary artery from pulmonary artery repair

Variable Short Name	Isolated CAB (ProcID=1)	Isolated AVR (ProcID=2)	Isolated MVR (ProcID=3)	AVR + CAB (ProcID=4)
	<ul style="list-style-type: none"> Anomalous aortic origin of coronary artery from aorta (AAOCA) repair 			<ul style="list-style-type: none"> Anomalous aortic origin of coronary artery from aorta (AAOCA) repair
OCarCongProc3	<ul style="list-style-type: none"> Missing PFO, Primary closure Anomalous origin of coronary artery from pulmonary artery repair Anomalous aortic origin of coronary artery from aorta (AAOCA) repair 	<ul style="list-style-type: none"> Missing PFO, Primary closure 	<ul style="list-style-type: none"> Missing PFO, Primary closure ASD repair, Primary closure ASD repair, Patch 	<ul style="list-style-type: none"> Missing PFO, Primary closure Anomalous origin of coronary artery from pulmonary artery repair Anomalous aortic origin of coronary artery from aorta (AAOCA) repair
Tricuspid Procedures: VSTV and OpTricus	<p>Only repairs/replacements that were unplanned due to surgical complications are allowed.</p> <p>VSTV:</p> <ul style="list-style-type: none"> No Yes, unplanned due to surgical complication Missing 	<p>Only repairs/replacements that were unplanned due to surgical complications are allowed.</p> <p>VSTV:</p> <ul style="list-style-type: none"> No Yes, unplanned due to surgical complication Missing 	<p>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)</p> <ol style="list-style-type: none"> OpTricus: <ul style="list-style-type: none"> Missing Annuloplasty only Reconstruction with Annuloplasty Reconstruction without Annuloplasty VSTV: Yes, unplanned due to unsuspected disease or anatomy 	<p>Only repairs/replacements that were unplanned due to surgical complications are allowed.</p> <p>VSTV:</p> <ul style="list-style-type: none"> No Yes, unplanned due to surgical complication Missing
VSPV	<ul style="list-style-type: none"> No Yes, unplanned due to surgical complication Missing 			
PrevVADExp	<ul style="list-style-type: none"> Yes, not during this procedure No Missing 			
VADImpTmg	<ul style="list-style-type: none"> Pre-Operative (during same hospitalization but not same OR trip as CV surgical procedure) 			

Variable Short Name	Isolated CAB (ProcID=1)	Isolated AVR (ProcID=2)	Isolated MVR (ProcID=3)	AVR + CAB (ProcID=4)
		<ul style="list-style-type: none"> • In conjunction with CV surgical procedure (same trip to the OR)- unplanned <ul style="list-style-type: none"> • Post-Operative (after surgical procedure during reoperation) <ul style="list-style-type: none"> • Missing 		
VADImpTmg2		<ul style="list-style-type: none"> • Pre-Operative (during same hospitalization but not same OR trip as CV surgical procedure) <ul style="list-style-type: none"> • In conjunction with CV surgical procedure (same trip to the OR)- unplanned <ul style="list-style-type: none"> • Post-Operative (after surgical procedure during reoperation) <ul style="list-style-type: none"> • Missing 		
VADImpTmg3		<ul style="list-style-type: none"> • Pre-Operative (during same hospitalization but not same OR trip as CV surgical procedure) <ul style="list-style-type: none"> • In conjunction with CV surgical procedure (same trip to the OR)- unplanned <ul style="list-style-type: none"> • Post-Operative (after surgical procedure during reoperation) <ul style="list-style-type: none"> • Missing 		
VExp		<ul style="list-style-type: none"> • Yes, not during this procedure <ul style="list-style-type: none"> • No • Missing 		
VExp2		<ul style="list-style-type: none"> • Yes, not during this procedure <ul style="list-style-type: none"> • No • Missing 		
VExp3		<ul style="list-style-type: none"> • Yes, not during this procedure <ul style="list-style-type: none"> • No • Missing 		
OCarLVA		<ul style="list-style-type: none"> • No • Missing 		
OCarVSD		<ul style="list-style-type: none"> • No • Missing 		
AortProc		<ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication <ul style="list-style-type: none"> • Missing 		
AortProcTEVAR		<ul style="list-style-type: none"> • No • Missing 		
OCarAFibIntraLes	<ul style="list-style-type: none"> • No • Missing 	<ul style="list-style-type: none"> • No • Missing 	<Not used in this calculation>	<ul style="list-style-type: none"> • No • Missing
OCarAFibLesLoc	<ul style="list-style-type: none"> • Primarily epicardial • Missing 	<ul style="list-style-type: none"> • Primarily epicardial • Missing 	<Not used in this calculation>	<ul style="list-style-type: none"> • Primarily epicardial • Missing

Variable Short Name	Isolated CAB (ProcID=1)	Isolated AVR (ProcID=2)	Isolated MVR (ProcID=3)	AVR + CAB (ProcID=4)
OCarASDSec	<ul style="list-style-type: none"> • No • Missing 	<ul style="list-style-type: none"> • No • Missing 	<Not used in this calculation>	<ul style="list-style-type: none"> • No • Missing
OCarACD	<Not used in this calculation>	<Not used in this calculation>	<ul style="list-style-type: none"> • No • Missing • Permanent Pacemaker 	<Not used in this calculation>
OCarACDLE	<ul style="list-style-type: none"> • Yes, unplanned due to surgical complication • No • Missing 			
OCarLasr	<Not used in this calculation>	<Not used in this calculation>	<ul style="list-style-type: none"> • No • Missing 	<Not used in this calculation>
OCPulThromDis	<ul style="list-style-type: none"> • No • Missing 			
OCarSubaStenRes	<ul style="list-style-type: none"> • No • Missing 			
OCarSVR	<ul style="list-style-type: none"> • No • Missing 			
OCarCrTx	<ul style="list-style-type: none"> • No • Missing 			
OCarTrma	<ul style="list-style-type: none"> • No • Missing 			
OCTumor	<ul style="list-style-type: none"> • No • Missing 			
OCarOthr	<ul style="list-style-type: none"> • No • Missing 			
VSTCV	<ul style="list-style-type: none"> • No • Missing 			
VSTCVMit	<ul style="list-style-type: none"> • No • Missing 			
VSTCVTr	<ul style="list-style-type: none"> • No • Missing 			
VSTCVPu	<ul style="list-style-type: none"> • No • Missing 			
CCancCase	<ul style="list-style-type: none"> • No • Missing 			

Variable Short Name	Isolated CAB (ProcID=1)	Isolated AVR (ProcID=2)	Isolated MVR (ProcID=3)	AVR + CAB (ProcID=4)
ONCCarEn	<ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing 			
ONCOVasc	<ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing 			
ONCOThor	<ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing 			
ONCOther	<ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing 			

Variable Short Name	MVR + CAB (ProcID=5)	AVR + MVR (ProcID=6)	MV Repair (ProcID=7)	MV Repair + CAB (ProcID=8)
OpCAB	<ul style="list-style-type: none"> • Yes, planned • Yes, unplanned due to unsuspected disease/anatomy 	<ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing 	<ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing 	<ul style="list-style-type: none"> • Yes, planned • Yes, unplanned due to unsuspected disease/anatomy
OpValve	<ul style="list-style-type: none"> • Yes 	<ul style="list-style-type: none"> • Yes 	<ul style="list-style-type: none"> • Yes 	<ul style="list-style-type: none"> • Yes
VSAV	<ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing 	<ul style="list-style-type: none"> • Yes, planned • Yes, unplanned due to unsuspected disease or anatomy 	<ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing 	<ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing
VSAVPr	<Not used in this calculation>	<ul style="list-style-type: none"> • Replacement 	<Not used in this calculation>	<Not used in this calculation>
VSMV	<ul style="list-style-type: none"> • Yes, planned • Yes, unplanned due to unsuspected disease or anatomy 	<ul style="list-style-type: none"> • Yes, planned • Yes, unplanned due to unsuspected disease or anatomy 	<ul style="list-style-type: none"> • Yes, planned • Yes, unplanned due to unsuspected disease or anatomy 	<ul style="list-style-type: none"> • Yes, planned • Yes, unplanned due to unsuspected disease or anatomy
VSMVPr	<ul style="list-style-type: none"> • Replacement 	<ul style="list-style-type: none"> • Replacement 	<ul style="list-style-type: none"> • Repair 	<ul style="list-style-type: none"> • Repair
OCarCongProc1	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Missing • PFO, Primary closure • ASD repair, Primary closure • ASD repair, Patch 	<ul style="list-style-type: none"> • Missing • PFO, Primary closure • ASD repair, Primary closure • ASD repair, Patch 	<ul style="list-style-type: none"> • 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
OCarCongProc2	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Missing • PFO, Primary closure • ASD repair, Primary closure • ASD repair, Patch 	<ul style="list-style-type: none"> • Missing • PFO, Primary closure • ASD repair, Primary closure • ASD repair, Patch 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Missing • PFO, Primary closure 	<ul style="list-style-type: none"> • Missing • PFO, Primary closure 	<ul style="list-style-type: none"> • Missing • PFO, Primary closure 	<ul style="list-style-type: none"> • Missing • PFO, Primary closure

Variable Short Name	MVR + CAB (ProcID=5)	AVR + MVR (ProcID=6)	MV Repair (ProcID=7)	MV Repair + CAB (ProcID=8)
	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> ASD repair, Primary closure ASD repair, Patch 	<ul style="list-style-type: none"> ASD repair, Primary closure ASD repair, Patch 	<ul style="list-style-type: none"> 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
Tricuspid Procedures: VSTV and OpTricus	<p>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)</p> <p>1. OpTricus:</p> <ul style="list-style-type: none"> Missing Annuloplasty only Reconstruction with Annuloplasty Reconstruction without Annuloplasty <p>2. VSTV: Yes, unplanned due to unsuspected disease or anatomy</p>	<p>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)</p> <p>1. OpTricus:</p> <ul style="list-style-type: none"> Missing Annuloplasty only Reconstruction with Annuloplasty Reconstruction without Annuloplasty <p>2. VSTV: Yes, unplanned due to unsuspected disease or anatomy</p>	<p>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)</p> <p>1. OpTricus:</p> <ul style="list-style-type: none"> Missing Annuloplasty only Reconstruction with Annuloplasty Reconstruction without Annuloplasty <p>2. VSTV: Yes, unplanned due to unsuspected disease or anatomy</p>	<p>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)</p> <p>1. OpTricus:</p> <ul style="list-style-type: none"> Missing Annuloplasty only Reconstruction with Annuloplasty Reconstruction without Annuloplasty <p>2. VSTV: Yes, unplanned due to unsuspected disease or anatomy</p>
VSPV	<ul style="list-style-type: none"> No Yes, unplanned due to surgical complication Missing 			
PrevVADExp	<ul style="list-style-type: none"> Yes, not during this procedure No Missing 			
VADImpTmg	<ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Post-Operative (after surgical procedure during reoperation) Missing 			

Variable Short Name	MVR + CAB (ProcID=5)	AVR + MVR (ProcID=6)	MV Repair (ProcID=7)	MV Repair + CAB (ProcID=8)
VADImpTmg2	<ul style="list-style-type: none"> • Pre-Operative (during same hospitalization but not same OR trip as CV surgical procedure) <ul style="list-style-type: none"> • In conjunction with CV surgical procedure (same trip to the OR)- unplanned • Post-Operative (after surgical procedure during reoperation) • Missing 			
VADImpTmg3	<ul style="list-style-type: none"> • Pre-Operative (during same hospitalization but not same OR trip as CV surgical procedure) <ul style="list-style-type: none"> • In conjunction with CV surgical procedure (same trip to the OR)- unplanned • Post-Operative (after surgical procedure during reoperation) • Missing 			
VExp	<ul style="list-style-type: none"> • Yes, not during this procedure <ul style="list-style-type: none"> • No • Missing 			
VExp2	<ul style="list-style-type: none"> • Yes, not during this procedure <ul style="list-style-type: none"> • No • Missing 			
VExp3	<ul style="list-style-type: none"> • Yes, not during this procedure <ul style="list-style-type: none"> • No • Missing 			
OCarLVA	<ul style="list-style-type: none"> • No • Missing 			
OCarVSD	<ul style="list-style-type: none"> • No • Missing 			
AortProc	<ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing 			
AortProcTEVAR	<ul style="list-style-type: none"> • No/Missing 			
OCarAFibIntraLes	<Not used in this calculation>	<Not used in this calculation>	<Not used in this calculation>	<Not used in this calculation>
OCarAFibLesLoc	<Not used in this calculation>	<Not used in this calculation>	<Not used in this calculation>	<Not used in this calculation>
OCarASDSec	<Not used in this calculation>	<Not used in this calculation>	<Not used in this calculation>	• <Not used in this calculation>
OCarACD	<ul style="list-style-type: none"> • No • Missing • Permanent Pacemaker 	<ul style="list-style-type: none"> • No • Missing • Permanent Pacemaker 	<ul style="list-style-type: none"> • No • Missing • Permanent Pacemaker 	<ul style="list-style-type: none"> • No • Missing • Permanent Pacemaker
OCarACDLE	<ul style="list-style-type: none"> • Yes, unplanned due to surgical complication • No • Missing 			
OCarLasr	• No	• No	• No	• No

Variable Short Name	MVR + CAB (ProcID=5)	AVR + MVR (ProcID=6)	MV Repair (ProcID=7)	MV Repair + CAB (ProcID=8)
	• Missing	• Missing	• Missing	• Missing
OCPulThromDis			<ul style="list-style-type: none"> • No • Missing 	
OCarSubaStenRes			<ul style="list-style-type: none"> • No • Missing 	
OCarSVR			<ul style="list-style-type: none"> • No • Missing 	
OcarCrTx			<ul style="list-style-type: none"> • No • Missing 	
OcarTrma			<ul style="list-style-type: none"> • No • Missing 	
OCTumor			<ul style="list-style-type: none"> • No • Missing 	
OCarOthr			<ul style="list-style-type: none"> • No • Missing 	
VSTCV			<ul style="list-style-type: none"> • No • Missing 	
VSTCVMit			<ul style="list-style-type: none"> • No • Missing 	
VSTCVTr			<ul style="list-style-type: none"> • No • Missing 	
VSTCVPu			<ul style="list-style-type: none"> • No • Missing 	
CCancCase			<ul style="list-style-type: none"> • No • Missing 	
ONCCarEn			<ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing 	
ONCOVasc			<ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing 	
ONCOThor			<ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing 	
ONCOther			<ul style="list-style-type: none"> • No 	

Variable Short Name	MVR + CAB (ProcID=5)	AVR + MVR (ProcID=6)	MV Repair (ProcID=7)	MV Repair + CAB (ProcID=8)
	<ul style="list-style-type: none"> • Yes, unplanned due to surgical complication • Missing 			

The field OpONCard is still being collected, but is no longer used in the ProcID calculation, replaced by component variables, ONCCarEn, ONCOVasc, ONCOThor, and ONCOther.

The following fields are no longer collected:

EndoProc – replaced by AortProcTEVAR

ResectSubA – replaced by OCarSubAStenRes

OCarASD – replaced by OCarASDPFO and OCarASDSec

OCarASDTy – replaced by OCarASDPFO and OCarASDSec

OCarAFibSur – replaced by OCarAFibIntraLes, OCarAFibEpLes and OCarAFibLesLoc

OCarAFibAProc – replaced by OCarAFibIntraLes, OCarAFibEpLes and OCarAFibLesLoc

UnplProc – replaced by options for procedure variables

UnplVAD – replaced by options for procedure variables

UnplCABG – replaced by options for procedure variables

UnplAV – replaced by options for procedure variables

UnplMV – replaced by options for procedure variables

UnplAo – replaced by options for procedure variables

UnplOth – replaced by options for procedure variables

OCAoProcType – replaced by AortProc and AortaDisease