

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 through 4) | | | | |
|-----------------------------|---|--|---|---|
| Variable Short Name/Seq # | Isolated CAB (ProcID=1) | Isolated AVR (ProcID=2) | Isolated MVR** (ProcID=3) | AVR + CAB (ProcID=4) |
| OpCAB/2120 | <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 | <ul style="list-style-type: none"> • Yes, planned • Yes, unplanned due to unsuspected disease or anatomy • |
| OpCAB | OpCAB in(3,5) | OpCab in (NULL, 2,4) | OpCab in (NULL, 2,4) | OpCAB in(3,5) |
| OpValve/2125 | <Not used in this calculation> | • Yes | • Yes | • Yes |
| OpValve | | Opvalve eq 1 | Opvalve eq 1 | Opvalve eq 1 |
| VSAV/3390 | <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 |
| VSAV | VSAV in (NULL, 2,4) | VSAV in (3,5) | VSAV in (NULL, 2,4) | VSAV in (3,5) |
| VSAVPr/3395 | <Not used in this calculation> | • Replacement | <Not used in this calculation> | • Replacement |
| VSAVPr | | VSAVPr eq 1 | | VSAVPr eq 1 |
| VSMV/3495 | <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 |
| VSMV | VSMV in (NULL, 2,4) | VSMV in (NULL, 2,4) | VSMV in (3,5) | VSMV in (NULL, 2,4) |
| VSMVPr/3500 | <Not used in this calculation> | <Not used in this calculation> | • Replacement | <Not used in this calculation> |
| VSMVPr | | | VSMVPr eq 2 | |
| OCarCongProcl/6515 | <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 |

| OCarCongProc1 | Ocarconproc1 in (NULL,10,1291,1305) | Ocarconproc1 in (NULL,10) | Ocarconproc1 in (NULL,10,20,30) | Ocarconproc1 in (NULL,10,1291,1305) |
|--|--|---|---|--|
| OCarCongProc2/ 6520 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Missing No other congenital procedures PFO, Primary closure | <ul style="list-style-type: none"> Missing No other congenital procedures PFO, Primary closure ASD repair, Primary closure ASD repair, Patch | <ul style="list-style-type: none"> 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 |
| OCarCongProc2 | Ocarconproc2 in (NULL,1,10,1291,1305) | Ocarconproc2 in (NULL,1,10) | Ocarconproc2 in (NULL,1,10,20,30) | Ocarconproc2 in (NULL,1,10,1291,1305) |
| OCarCongProc3/ 6525 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Missing No other congenital procedures PFO, Primary closure | <ul style="list-style-type: none"> Missing No other congenital procedures PFO, Primary closure ASD repair, Primary closure ASD repair, Patch | <ul style="list-style-type: none"> 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 |
| OCarCongProc3 | Ocarconproc3 in (NULL,1,10,1291,1305) | Ocarconproc3 in (NULL,1,10) | Ocarconproc3 in (NULL,1,10,20,30) | Ocarconproc3 in (NULL,1,10,1291,1305) |
| Tricuspid Procedures: VSTV VSTrReplace VSTrValvec 3640, 3650, 3653 | <p>Unplanned Surgical Complications ONLY</p> <p>VSTV is one of :</p> <ul style="list-style-type: none"> No Yes, unplanned due to surgical complication Missing | <p>Unplanned Surgical Complications ONLY</p> <p>VSTV is one of :</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> <p>1. VSTrReplace:</p> <ul style="list-style-type: none"> No Missing <p>AND VSTrValvec:</p> <ul style="list-style-type: none"> No Missing <p>2. VSTV</p> | <p>Unplanned Surgical Complications ONLY</p> <p>VSTV is one of :</p> <ul style="list-style-type: none"> No Yes, unplanned due to surgical complication Missing |

| | | | | |
|--|--|---------------------|---|---------------------|
| | | | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing | | | |
| VSPV | VSPV in (NULL, 2,4) | | | |
| PrevVADExp/ 3825 | <ul style="list-style-type: none"> • Yes, not during this procedure • No • Missing | | | |
| PrevVADExp | PrevVADExp in (NULL, 1,3) | | | |
| VADImpTmg/ 3845 | <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 • Post-Operative (after surgical procedure during reoperation) • Missing | | | |
| VADImpTmg | VADImpTmg in (NULL, 1, 4, 5) | | | |
| VADImpTmg2/ 3900 | <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 • Post-Operative (after surgical procedure during reoperation) • Missing | | | |
| VADImpTmg2 | VADImpTmg2 in (NULL, 1, 4, 5) | | | |
| VADImpTmg3/ 3955 | <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 • Post-Operative (after surgical procedure during reoperation) • Missing | | | |
| VADImpTmg3 | VADImpTmg3 in (NULL, 1, 4, 5) | | | |
| VExp/3875 | <ul style="list-style-type: none"> • Yes, not during this procedure • No • Missing | | | |
| VExp | VExp in (NULL, 3, 2) | | | |
| VExp2/3930 | <ul style="list-style-type: none"> • Yes, not during this procedure • No • Missing | | | |
| VExp2 | VExp2 in (NULL, 3, 2) | | | |

| | | | | |
|-----------------------|--|---|--|---|
| VExp3/3985 | <ul style="list-style-type: none"> • Yes, not during this procedure <ul style="list-style-type: none"> • No • Missing | | | |
| VExp3 | VExp3 in (NULL, 3, 2) | | | |
| OCarLVA/4075 | <ul style="list-style-type: none"> • No • Missing | | | |
| OCarLVA | OCarLVA in (NULL, 2) | | | |
| OCarVSD/4130 | <ul style="list-style-type: none"> • No • Missing | | | |
| OCarVSD | OCarVSD in (NULL, 2) | | | |
| AortProc/2125 | <ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing | | | |
| AortProc | Aortproc in (NULL, 2,4) | | | |
| EndovasProc/5066 | <ul style="list-style-type: none"> • No • Missing | | | |
| EndovasProc | EndovasProc in (NULL, 2) | | | |
| OCarAFibIntraLes/4040 | <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 |
| OCarAFibIntraLes | OcarAFibIntraLes in (NULL, 2) | OcarAFibIntraLes in (NULL, 2) | | OcarAFibIntraLes in (NULL, 2) |
| OCarAFibLesLoc/4191 | <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 |
| OCarAFibLesLoc | OcarAFibLesLoc ne 2 | OcarAFibLesLoc ne 2 | | OcarAFibLesLoc ne 2 |
| OCarASDSec/4035 | <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 |
| OCarASDSec | OcarASDSec in (NULL, 2) | OcarASDSec in (NULL, 2) | | OcarASDSec in (NULL, 2) |
| OCarACD/4055 | <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> |
| OCarACD | | | OcarACD in (NULL, 1, 2) | |
| OCarACDLE/4065 | <ul style="list-style-type: none"> • Yes, unplanned due to surgical complication <ul style="list-style-type: none"> • No • Missing | | | |

| | | | | |
|----------------------|--------------------------------|--------------------------------|---|--------------------------------|
| OCarACDLE | OCarACDLE in (NULL, 2,4) | | | |
| OCarLasr/4110 | <Not used in this calculation> | <Not used in this calculation> | <ul style="list-style-type: none"> • No • Missing | <Not used in this calculation> |
| OCarLasr | | | OCarLasr in (NULL, 2) | |
| OCPulThromDis/4085 | | | <ul style="list-style-type: none"> • No • Missing | |
| OCPulThromDis | OCPulThromDis in (NULL, 1) | | | |
| OCarSubaStenRes/4090 | | | <ul style="list-style-type: none"> • No • Missing | |
| OCarSubaStenRes | OCarSubaStenRes in (NULL, 2) | | | |
| OCarSVR/4105 | | | <ul style="list-style-type: none"> • No • Missing | |
| OCarSVR | OCarSVR in (NULL, 2) | | | |
| OCarCrTx/4120 | | | <ul style="list-style-type: none"> • No • Missing | |
| OCarCrTx | OCarCrTx in (NULL, 2) | | | |
| OCarTrma/4125 | | | <ul style="list-style-type: none"> • No • Missing | |
| OCarTrma | OCarTrma in (NULL, 2) | | | |
| OCTumor/4115 | | | <ul style="list-style-type: none"> • No • Missing | |
| OCTumor | OCTumor in (NULL, 1) | | | |
| OCarOthr/4135 | | | <ul style="list-style-type: none"> • No • Missing | |
| OCarOthr | OCarOthr in (NULL, 2) | | | |
| VSTCV/3400 | | | <ul style="list-style-type: none"> • No • Missing | |
| VSTCV | VSTCV in (NULL, 2) | | | |
| VSTCVMit/3610 | | | <ul style="list-style-type: none"> • No • Missing | |
| VSTCVMit | VSTCVMit in (NULL, 2) | | | |
| VSTCVTri/3652 | | | <ul style="list-style-type: none"> • No • Missing | |
| VSTCVTri | VSTCVTri in (NULL, 2) | | | |
| VSTCVPu/3695 | | | <ul style="list-style-type: none"> • No • Missing | |
| VSTCVPu | VSTCVPu in (NULL, 2) | | | |

| | |
|----------------|--|
| CCancCase/2050 | <ul style="list-style-type: none"> • No • Missing |
| CCancCase | CCancCase in (NULL, 2) |
| ONCCarEn/6530 | <ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing |
| ONCCarEn | ONCCarEn in (NULL, 2, 4) |
| ONCOVasc/6535 | <ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing |
| ONCOVasc | ONCOVasc in (NULL, 2, 4) |
| ONCOThor/6540 | <ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing |
| ONCOThor | ONCOThor in (NULL, 2, 4) |
| ONCOther/6545 | <ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing |
| ONCOther | ONCOther in (NULL, 2, 4) |

| PART 2 (PROCID 5 through 8) | | | | |
|-----------------------------|---|--|--|---|
| Variable Short Name | MVR + CAB** (ProcID=5) | AVR + MVR** (ProcID=6) | MV Repair** (ProcID=7) | MV Repair + CAB** (ProcID=8) |
| OpCAB/2120 | <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 | <ul style="list-style-type: none"> • Yes, planned • Yes, unplanned due to unsuspected disease or anatomy |
| 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 | <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 |
| VSAV | VSAV in (NULL, 2,4) | VSAV in (3,5) | VSAV in (NULL, 2,4) | VSAV in (NULL, 2,4) |
| VSAVPr/3395 | <Not used in this calculation> | • Replacement | <Not used in this calculation> | <Not used in this calculation> |
| VSAVPr | | VSAVPr eq 1 | | |
| VSMV/3495 | <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 |
| 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 | <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 |
| OCarCongProc1 | Ocarconproc1 in (NULL,10,20,30,1291,1305) | Ocarconproc1 in (NULL,10,20,30) | Ocarconproc1 in (NULL,10,20,30) | Ocarconproc1 in (NULL,10,20,30,1291,1305) |
| OCarCongProc2/6520 | <ul style="list-style-type: none"> • Missing • No other congenital procedures • PFO, Primary closure • Anomalous origin of coronary artery | <ul style="list-style-type: none"> • Missing • No other congenital procedures • PFO, Primary closure • ASD repair, Primary closure | <ul style="list-style-type: none"> • Missing • No other congenital procedures • PFO, Primary closure • ASD repair, Primary closure | <ul style="list-style-type: none"> • Missing • No other congenital procedures • PFO, Primary closure • Anomalous origin of coronary |

| PART 2 (PROCID 5 through 8) | | | | |
|---|--|--|--|--|
| 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 aortic origin of coronary artery from aorta (AAOCA) repair ASD repair, Primary closure ASD repair, Patch | | | <ul style="list-style-type: none"> Anomalous aortic origin of coronary artery from aorta (AAOCA) repair ASD repair, Primary closure ASD repair, Patch |
| OCarCongProc2 | Ocarconproc2 in (NULL,1,10,20,30,1291,1305) | Ocarconproc2 in (NULL,1,10,20,30) | Ocarconproc2 in (NULL,1,10,20,30) | Ocarconproc2 in (NULL,1,10,20,30,1291,1305) |
| OCarCongProc3/ 6525 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Missing No other congenital procedures PFO, Primary closure ASD repair, Primary closure ASD repair, Patch | <ul style="list-style-type: none"> Missing No other congenital procedures PFO, Primary closure ASD repair, Primary closure ASD repair, Patch | <ul style="list-style-type: none"> 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 |
| OCarCongProc3 | Ocarconproc3 in (NULL,1,10,20,30,1291,1305) | Ocarconproc3 in (NULL,1,10,20,30) | Ocarconproc3 in (NULL,1,10,20,30) | Ocarconproc3 in (NULL,1,10,20,30,1291,1305) |
| Tricuspid Procedures: VSTV VSTrReplace VSTrValvec/ 3640, 3650, 3653 | <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. VSTrReplace:</p> <ul style="list-style-type: none"> No Missing <p>AND</p> <p>VSTrValvec:</p> <ul style="list-style-type: none"> No Missing <p>2. VSTV</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. VSTrReplace:</p> <ul style="list-style-type: none"> No Missing <p>AND</p> <p>VSTrValvec:</p> <ul style="list-style-type: none"> No Missing <p>2. VSTV</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. VSTrReplace:</p> <ul style="list-style-type: none"> No Missing <p>AND</p> <p>VSTrValvec:</p> <ul style="list-style-type: none"> No Missing <p>2. VSTV</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. VSTrReplace:</p> <ul style="list-style-type: none"> No Missing <p>AND</p> <p>VSTrValvec:</p> <ul style="list-style-type: none"> No Missing <p>2. VSTV</p> |

| PART 2 (PROCID 5 through 8) | | | | |
|---|--|--|---|--|
| Variable Short Name | MVR + CAB** (ProcID=5) | AVR + MVR** (ProcID=6) | MV Repair** (ProcID=7) | MV Repair + CAB** (ProcID=8) |
| | • Yes, unplanned due to surgical complication”] | • Yes, unplanned due to surgical complication”] | • Yes, unplanned due to surgical complication”] | • Yes, unplanned due to surgical complication”] |
| Tricuspid Procedures VSTV VSTrReplace VSTrValvec | [VSTrReplace in (NULL, 2) and VSTrValvec in (NULL,2)] OR VSTV eq 4 | [VSTrReplace in (NULL, 2) and VSTrValvec in (NULL,2)] OR VSTV eq 4 | [VSTrReplace in (NULL, 2) and VSTrValvec in (NULL,2)] OR VSTV eq 4 | [VSTrReplace in (NULL, 2) and VSTrValvec in (NULL,2)] OR VSTV eq 4 |
| VSPV/3685 | <ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing | | | |
| VSPV | VSPV in (NULL, 2,4) | | | |
| PrevVADExp/ 3825 | <ul style="list-style-type: none"> • Yes, not during this procedure • No • Missing | | | |
| PrevVADExp | PrevVADExp in (NULL, 1,3) | | | |
| VADImpTmg/ 3845 | <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 • Post-Operative (after surgical procedure during reoperation) • Missing | | | |
| VADImpTmg | VADImpTmg in (NULL, 1, 4, 5) | | | |
| VADImpTmg2/ 3900 | <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 • Post-Operative (after surgical procedure during reoperation) • Missing | | | |
| VADImpTmg2 | VADImpTmg2 in (NULL, 1, 4, 5) | | | |
| VADImpTmg3/ 3955 | <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 • Post-Operative (after surgical procedure during reoperation) • Missing | | | |
| VADImpTmg3 | VADImpTmg3 in (NULL, 1, 4, 5) | | | |
| VExp/3875 | <ul style="list-style-type: none"> • Yes, not during this procedure • No • Missing | | | |
| VExp | VExp in (NULL, 3, 2) | | | |
| VExp2/3930 | <ul style="list-style-type: none"> • Yes, not during this procedure | | | |

| PART 2 (PROCID 5 through 8) | | | | |
|-----------------------------|--|--|--|--|
| 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"> • No • Missing | |
| VExp2 | | | VExp2 in (NULL, 3, 2) | |
| VExp3/3985 | | | <ul style="list-style-type: none"> • Yes, not during this procedure • No • Missing | |
| VExp3 | | | VExp3 in (NULL, 3, 2) | |
| OCarLVA/4075 | | | <ul style="list-style-type: none"> • No • Missing | |
| OCarLVA | | | OCarLVA in (NULL, 2) | |
| OCarVSD/4130 | | | <ul style="list-style-type: none"> • No • Missing | |
| OCarVSD | | | OCarVSD in (NULL, 2) | |
| AortProc/2128 | | | <ul style="list-style-type: none"> • No • Yes, unplanned due to surgical complication • Missing | |
| AortProc | | | Aortproc in (NULL, 2,4) | |
| EndovasProc/5066 | | | <ul style="list-style-type: none"> • No • Missing | |
| EndovasProc | | | EndovasProc in (NULL, 2) | |
| OCarAFibIntraLes 4040 | <Not used in this calculation> | <Not used in this calculation> | <Not used in this calculation> | <Not used in this calculation> |
| OCarAFibIntraLes | | | | |
| OCarAFibLesLoc 4191 | <Not used in this calculation> | <Not used in this calculation> | <Not used in this calculation> | <Not used in this calculation> |
| OCarAFibLesLoc | | | | |
| OCarASDSec 4035 | <Not used in this calculation> | <Not used in this calculation> | <Not used in this calculation> | <Not used in this calculation> |
| OCarASDSec | | | | |
| OCarACD 405 | <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 |
| OCarACD | OCarACD in (NULL, 1, 2) | OCarACD in (NULL, 1, 2) | OCarACD in (NULL, 1, 2) | OCarACD in (NULL, 1, 2) |
| OCarACDLE/4065 | | | <ul style="list-style-type: none"> • Yes, unplanned due to surgical complication • No | |

| PART 2 (PROCID 5 through 8) | | | | |
|-----------------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| Variable Short Name | MVR + CAB** (ProcID=5) | AVR + MVR** (ProcID=6) | MV Repair** (ProcID=7) | MV Repair + CAB** (ProcID=8) |
| | | | | • Missing |
| OCarACDLE | | | | OCarACDLE in (NULL, 2,4) |
| OCarLasr/4110 | • No • Missing | • No • Missing | • No • Missing | • No • Missing |
| OCarLasr | OCarLasr in (NULL, 2) | OCarLasr in (NULL, 2) | OCarLasr in (NULL, 2) | OCarLasr in (NULL, 2) |
| OCPulThromDis/4085 | | | | • No • Missing |
| OCPulThromDis | | | | OCPulThromDis in (NULL, 1) |
| OCarSubaStenRes/4090 | | | | • No • Missing |
| OCarSubaStenRes | | | | OCarSubaStenRes in (NULL, 2) |
| OCarSVR/4105 | | | | • No • Missing |
| 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 | | | | • 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) |
| VSTCVTri/3652 | | | | • No • Missing |

| PART 2 (PROCID 5 through 8) | | | | |
|-----------------------------|---------------------------|---------------------------|---------------------------|--|
| Variable Short Name | MVR + CAB** (ProcID=5) | AVR + MVR** (ProcID=6) | MV Repair** (ProcID=7) | MV Repair + CAB** (ProcID=8) |
| VSTCVTri | | | | • VSTCVTri in (NULL, 2) |
| VSTCVPu/3695 | | | | • No • Missing |
| VSTCVPu | | | | • VSTCVPu in (NULL, 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) |

****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

