Stanford University School of Medicine
Research IT

## STS/ACC TVT Registry

Codebook

# Data Dictionary Codebook

12/10/2019 10:10am

Collapse all instruments

| | # | Variable / Field Name | Field Label<br>*Field Note* | Field Attributes (Field Type, Validation, Choices, Calculations, etc.) |
|---|---|---|---|---|
| Instrument: **Demographics** (demographics) | | | | Collapse |
| | 1 | redcap_id | Redcap id<br>*Redcap identifier* | text |
| | 2 | age | Age<br>*Patient's age at time of procedure* | text |
| | 3 | sex | Sex<br>*Indicate the patient's sex at birth. Target Value: The value on arrival at this facility* | radio<br>1 Male<br>2 Female<br>Field Annotation: v2.1 SeqNo 2060 |
| | 4 | racewhite | Race - White<br>*Indicate if the patient is White as determined by the patient/family. Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one. Target Value: The value on arrival at this facility No Yes* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 2070 |
| | 5 | raceblack | Race - Black or African American<br>*Indicate if the patient is Black/African American as determined by the patient/family. Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one. Target Value: The value on arrival at this facility* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 2071 |
| | 6 | raceasian | Race - Asian<br>*Indicate if the patient is Asian as determined by the patient/family. Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one. Target Value: The value on arrival at this facility* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 2072 |
| | 7 | raceamindian | Race - American Indian or Alaskan Native<br>*Indicate if the patient is American Indian or Alaskan Native as determined by the patient/family. Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one. Target Value: The value on arrival at this facility* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 2073 |
| | 8 | racenathaw | Race - Native Hawaiian or Pacific Islander<br>*Indicate if the patient is Native Hawaiian/Other Pacific Islander as determined by the patient/family. Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one. Target Value: The value on arrival at this facility* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 2074 |
| | 9 | hisporig | Hispanic or Latino Ethnicity<br>*Indicate if the patient is of Hispanic or Latino ethnicity as determined by the patient/family. Target Value: The value on arrival at this facility* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 2076 |
| | 10 | aux1 | Auxiliary 1<br>*Reserved for future use. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 2500 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 11 | aux2 | Auxiliary 2<br>*Reserved for future use. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 2501 |
| | 12 | demographics_complete | Section Header: *Form Status*<br>Complete? | dropdown<br>0 Incomplete<br>1 Unverified<br>2 Complete |
| Instrument: **Phi** (phi) | | | | Collapse |
| | 13 | lastname | Last Name<br>*Indicate the patient's last name. Hyphenated names should be recorded with a hyphen. Target Value: The value on arrival at this facility* | text<br>Field Annotation: v2.1 SeqNo 2000 |
| | 14 | firstname | First Name<br>*Indicate the patient's first name. Target Value: The value on arrival at this facility* | text<br>Field Annotation: v2.1 SeqNo 2010 |
| | 15 | midname | Middle Name<br>*Indicate the patient's middle name. Note(s): It is acceptable to specify the patient's middle initial. If the patient does not have a middle name, leave field blank. If the patient has multiple middle names, enter all of the middle names sequentially. Target Value: The value on arrival at this facility* | text<br>Field Annotation: v2.1 SeqNo 2020 |
| | 16 | patientid | Patient ID<br>*Indicate the number created and automatically inserted by the software that uniquely identifies this patient. Target Value: The value on arrival at this facility* | text<br>Field Annotation: v2.1 SeqNo 2040 |
| | 17 | mrn | Other ID<br>*Indicate optional patient identifier, such as medical record number, that can be associated with the patient. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 2045 |
| | 18 | deid_jitter | Deid date offset value | text |
| | 19 | dob | Birth Date<br>*Indicate the patient's date of birth. Target Value: The value on arrival at this facility* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 2050 |
| | 20 | arrivaldate | Section Header: *Episode of Care*<br>Arrival Date<br>*Indicate the date the patient arrived at your facility. Target Value: N/A* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 3000 |
| | 21 | priorpacerdate | Section Header: *History & Risk Factors*<br>Most Recent Pacemaker Date<br>*Indicate the date the pacemaker was implanted. Note(s): If the month or day is unknown, enter 01 Target Value: The last value between birth and the first procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 4012 |
| | 22 | priorpcidate | Most Recent PCI Date<br>*Indicate the date of the most recent PCI. Note(s): If the month or day are unknown, enter 01. Target Value: The last value between birth and the procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 4025 |
| | 23 | priorcabgdate | Most Recent CABG Date<br>*Indicate the date of the most recent coronay artery bypass graft (CABG). Note(s): If month or day are unknown, enter 01. Target Value: The last value between birth and the procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 4035 |
| | 24 | prioraorticvalvedate | Most Recent Aortic Valve Procedure Date<br>*Indicate the date of the most recent prior aortic valve procedure. Note(s): If month or day are unknown, enter 01. Target Value: The last value between birth and the procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 4065 |
| | 25 | priormvprocdate | Prior Mitral Valve Procedure Date<br>*Indicate the date of the most recent prior mitral valve procedure, if performed. Target Value: Any occurrence between birth and the procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 4097 |
| | 26 | priorstrokedate | Most Recent Stroke Date<br>*Indicate the date of the most recent stroke. Note(s): If the month or day is unknown, enter 01. Target Value: The last value between birth and the procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 4125 |
| | 27 | sixminwalkdate | Section Header: *Pre-procedure Status*<br>Six Minute Walk Test Date<br>*Indicate the date the six minute walk test was performed. Target Value: The last value between 30 days prior to the procedure and the procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 5116 |
| | 28 | dxcathdt | Diagnostic Catheterization Date<br>*Indicate the date the diagnostic catheterization was performed. Target Value: The last value between 12 months prior to the procedure and start of the procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 5505 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 29 | tvtprocedurestartdate | Section Header: *Procedure Information*<br>Procedure Start Date<br>*Indicate the time the procedure started. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 6041 |
| | 30 | tvtprocedurestopdate | Procedure Stop Date<br>*Indicate the date the patient exits the procedure room. Target Value: The last value on current procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 6045 |
| | 31 | mrr_procrmarrivaldate | Procedure Room Arrival Date (Mitral Repair)<br>*Indicate the date the patient arrived into the procedure room. Target Value: The value on current procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 26060 |
| | 32 | popttechdate | Section Header: *Post-procedure Labs and Tests*<br>Post-Procedure Echocardiogram Date<br>*Indicate the date the echo was performed. Target Value: The value between end of procedure and discharge* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 8070 |
| | 33 | dcdate | Section Header: *Discharge*<br>Discharge Date<br>*Indicate the date on which the patient was discharged from your facility. Note(s): If the deceased is an organ donor, code the Discharge Date as the date of the final organ harvest. Target Value: The value on discharge* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 9045 |
| | 34 | deathdate | Death Date | text |
| | 35 | phi_complete | Section Header: *Form Status*<br>Complete? | dropdown<br>0 Incomplete<br>1 Unverified<br>2 Complete |

Instrument: **Episode Of Care** (episode_of_care) Collapse

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 36 | arrivaldate_deid | Section Header: *Episode of Care*<br>Arrival Date (Deid)<br>*Indicate the date the patient arrived at your facility. Target Value: N/A* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 3000 |
| | 37 | arrivaltime | Arrival Time<br>*Indicate the time the patient arrived at your facility Note(s): Indicate the time (hours:minutes) using the military 24-hour clock, beginning at midnight (00:00 hours). If the patient came to your facility for an elective or outpatient procedure and the time was not documented, code the scheduled time of arrival. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 3001 |
| | 38 | residence | Residence on Arrival<br>*Indicate the primary residence of the patient prior to arrival. If the primary residence is not available, code not documented. Target Value: The value on arrival at this facility* | radio<br>1 Home with no health-aid<br>2 Home with health aid<br>3 Long term care<br>4 Other<br>5 Not Documented<br>Field Annotation: v2.1 SeqNo 3003 |
| | 39 | insprivate | Insurance Payors - Private Health Insurance<br>*Indicate if the patient's insurance payor(s) included private health insurance. Note(s): A health maintenance organization (HMO) is considered private health insurance. Target Value: The value on arrival at this facility* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 3005 |
| | 40 | insmedicare | Insurance Payors - Medicare<br>*Indicate if the patient's insurance payor(s) included Medicare. Target Value: The value on arrival at this facility* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 3006 |
| | 41 | insmedicaid | Insurance Payors - Medicaid<br>*Indicate if the patient's insurance payor(s) included Medicaid. Target Value: The value on arrival at this facility* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 3007 |

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|---|---|---|---|---|
| | 42 | insmilitary | Insurance Payors - Military Health Care<br>*Indicate if the patient's insurance payor(s) included Military Health Care. Target Value: The value on arrival at this facility* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 3008 |
| | 43 | insstate | Insurance Payors - State-Specific Plan (Non Medicaid)<br>*Indicate if the patient's insurance payor(s) included State-Specific Plan (non Medicaid). Target Value: The value on arrival at this facility No Yes* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 3009 |
| | 44 | insihs | Insurance Payors - Indian Health Service<br>*Indicate if the patient's insurance payor(s) included Indian Health Service (IHS). Target Value: The value on arrival at this facility* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 3010 |
| | 45 | insnonus | Insurance Payors - Non-US Insurance<br>*Indicate if the patient's insurance payor(s) included Non-US Insurance. Target Value: The value on arrival at this facility* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 3011 |
| | 46 | insnone | Insurance Payors - None<br>*Indicate if the patient has no insurance payor(s). Target Value: The value on arrival at this facility* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 3012 |
| | 47 | hic | Health Insurance Claim Number<br>*Indicate the patient's Health Insurance Claim (HIC) number. Target Value: The value on arrival at this facility* | text<br>Field Annotation: v2.1 SeqNo 3015 |
| | 48 | aux3 | Auxiliary 3<br>*Reserved for future use. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 3020 |
| | 49 | aux4 | Auxiliary 4<br>*Reserved for future use. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 3025 |
| | 50 | enrolledstudy | Patient Enrolled in Research Study<br>*Indicate if the patient is enrolled in a research study for the index procedure or the episode of care. Note(s): Code 'Yes' only for those patients enrolled in an STS/ACC TVT Registry research study. If the patient is in other studies unrelated to the TVT Registry, leave blank or Code 'No'. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 3030 |
| | 51 | studyname1 | Research Study Name<br>*Indicate the research study name as provided by the research study protocol or STS/ACC TVT Registry staff. Note(s): Study names must follow the format indicated by the research protocol or STS/ACC TVT Registry staff. Deviations may result in an error message. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 3031 |
| | 52 | studyptid1 | Research Study Patient ID<br>*Indicate the research study patient identification number as assigned by the research protocol or STS/ACC TVT Registry staff. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 3032 |
| | 53 | studyname2 | Research Study Name<br>*Indicate the research study name as provided by the research study protocol or STS/ACC TVT Registry staff. Note(s): Study names must follow the format indicated by the research protocol or STS/ACC TVT Registry staff. Deviations may result in an error message. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 3031 |
| | 54 | studyptid2 | Research Study Patient ID<br>*Indicate the research study patient identification number as assigned by the research protocol or STS/ACC TVT Registry staff. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 3032 |
| | 55 | studyname3 | Research Study Name<br>*Indicate the research study name as provided by the research study protocol or STS/ACC TVT Registry staff. Note(s): Study names must follow the format indicated by the research protocol or STS/ACC TVT Registry staff. Deviations may result in an error message. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 3031 |
| | 56 | studyptid3 | Research Study Patient ID<br>*Indicate the research study patient identification number as assigned by the research protocol or STS/ACC TVT Registry staff. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 3032 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 57 | studyname4 | Research Study Name<br>*Indicate the research study name as provided by the research study protocol or STS/ACC TVT Registry staff. Note(s): Study names must follow the format indicated by the research protocol or STS/ACC TVT Registry staff. Deviations may result in an error message. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 3031 |
| | 58 | studyptid4 | Research Study Patient ID<br>*Indicate the research study patient identification number as assigned by the research protocol or STS/ACC TVT Registry staff. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 3032 |
| | 59 | studyname5 | Research Study Name<br>*Indicate the research study name as provided by the research study protocol or STS/ACC TVT Registry staff. Note(s): Study names must follow the format indicated by the research protocol or STS/ACC TVT Registry staff. Deviations may result in an error message. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 3031 |
| | 60 | studyptid5 | Research Study Patient ID<br>*Indicate the research study patient identification number as assigned by the research protocol or STS/ACC TVT Registry staff. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 3032 |
| | 61 | episode_of_care_complete | Section Header: *Form Status*<br>Complete? | dropdown<br>0 Incomplete<br>1 Unverified<br>2 Complete |
| Instrument: **History Risk Factors** (history_risk_factors) | | | | Collapse |
| | 62 | infendo | Section Header: *Cardiac History*<br>Infective Endocarditis<br>*Indicate whether the patient has a history of infective endocarditis documented by one of the following: 1. Positive blood cultures 2. Vegetation on echocardiography and/or other diagnostic modality 3. Documented history of infective endocarditis Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 4000 |
| | 63 | infendty | Infective Endocarditis Type<br>*Indicate the type of endocarditis. Target Value: The last value between birth and the procedure* | radio<br>1 Treated<br>2 Active<br>Field Annotation: v2.1 SeqNo 4005 |
| | 64 | priorhfadmit | Heart Failure Hospitalization Within Past Year<br>*Indicate if the patient has been admitted to the hospital for an inpatient admission with a diagnosis of heart failure within the past year. Target Value: Any occurrence between one year prior to the procedure and the procedure* | radio<br>0 No<br>1 Yes<br>2 Not Documented<br>Field Annotation: v2.1 SeqNo 4006 |
| | 65 | pacemaker | Permanent Pacemaker<br>*Indicate if the patient currently has a permanent pacemaker or had a permanent pacemaker that was implanted at any time prior to arrival at this facility. This includes patients that had a permanent pacemaker previously, but the device is no longer in place. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 4010 |
| | 66 | priorpacerdate_deid | Most Recent Pacemaker Date (Deid)<br>*Indicate the date the pacemaker was implanted. Note(s): If the month or day is unknown, enter 01 Target Value: The last value between birth and the first procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 4012 |
| | 67 | crt | Cardiac Resynchronization Therapy<br>*Indicate if the pacemaker type includes cardiac resynchronization therapy (CRT). A CRT is a biventricular pacemaker that sends electrical signals to both ventricles that resynchronizes the heart chambers and helps it pump more effectively. It may or may not have an atrial pacing wire. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 4013 |
| | 68 | previcd | Previous ICD<br>*Indicate if the patient had a previous implantable cardioverter defibrillator (ICD). This includes patients that had an ICD previously, but the device is no longer in place. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 4015 |

| | # | Variable | Field Label | Field Attributes |
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| | 69 | crtd | Cardiac Resynchronization Therapy Defibrillator<br>*Indicate if the ICD includes a cardiac resynchronization therapy device. A cardiac resynchronization therapy defibrillator (CRT-D) has dual capabilities. It is a biventricular pacemaker that sends electrical signals to both ventricles as well as a defibrillator. It may or may not have an atrial pacing wire. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 4016 |
| | 70 | priorpci | Prior PCI<br>*Indicate if the patient had a previous percutaneous coronary intervention. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 4020 |
| | 71 | priorpcidate_deid | Most Recent PCI Date (Deid)<br>*Indicate the date of the most recent PCI. Note(s): If the month or day are unknown, enter 01. Target Value: The last value between birth and the procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 4025 |
| | 72 | priorcabg | Prior CABG<br>*Indicate if the patient had a previous coronary artery bypass graft (CABG) surgery. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 4030 |
| | 73 | priorcabgdate_deid | Most Recent CABG Date (Deid)<br>*Indicate the date of the most recent coronay artery bypass graft (CABG). Note(s): If month or day are unknown, enter 01. Target Value: The last value between birth and the procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 4035 |
| | 74 | prothcar | Prior Other Cardiac Surgery<br>*Indicate if the patient had prior other cardiac surgery. Other cardiac surgery includes surgeries not otherwise specified in the cardiac history. It includes, but is not limited to: 1. Previous congenital heart surgery and/or percutaneous procedure (e.g. VSD, ASD, TOF and PFO repair). 2. Previous surgery on the thoracic aorta. 3. Previous intrapericardial or great vessel (e.g., aorta, superior vena cava, inferior vena cava, pulmonary arteries and veins) procedure performed. This may include, but is not limited to LVA, acquired VSD, SVR, TMR, cardiac trauma, pericardial window, pericardiectomy, cardiac tumor, myectomy or heart transplant. Note(s): Do not include aortic or non-aortic valve procedures. See Seq Num 4095, Prior Other Non-Aortic Valve Procedure and Seq Num 4060, Prior Aortic Valve Procedure. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 4040 |
| | 75 | numprevcardsurg | Number of Previous Cardiac Surgeries<br>*Indicate the number of open heart cardiac surgeries the patient has had prior to this procedure. This includes open heart coronary artery bypass, or valve replacement/repairs. Note(s): Do not include other open chest surgical procedures (not accessing the heart, such as surgery on the thoracic aorta or lung) or other cardiac interventional procedures (such as a PCI, or balloon valvuloplasty). Target Value: The total between birth and the procedure* | radio<br>0 0<br>1 1<br>2 2<br>3 3<br>4 >=4<br>Field Annotation: v2.1 SeqNo 4055 |
| | 76 | prioraorticvalve | Section Header: *Aortic Valve*<br>Prior Aortic Valve Procedure<br>*Indicate whether the patient had a previous surgical or interventional replacement and/or repair of the aortic valve. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 4060 |
| | 77 | prioraorticvalvedate_deid | Most Recent Aortic Valve Procedure Date (Deid)<br>*Indicate the date of the most recent prior aortic valve procedure. Note(s): If month or day are unknown, enter 01. Target Value: The last value between birth and the procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 4065 |
| | 78 | prevprocavreplace | Previous Aortic Valve Replacement - Surgical<br>*Indicate whether a previous procedure included a surgical aortic valve replacement. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 4070 |

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| | 79 | prevprocavtype | Previous Aortic Valve Procedure Type<br>*Indicate the type of aortic valve replacement. Target Value: The last value between birth and the procedure* | radio<br>1 Bioprosthetic stented<br>2 Bioprosthetic stentless<br>3 Not Documented<br><br>Field Annotation: v2.1 SeqNo 4075 |
| | 80 | prevprocavmodelid | Aortic Valve Model ID<br>*Indicate the model ID of the prosthetic aortic valve. Target Value: The last value between birth and the procedure* | text<br>Field Annotation: v2.1 SeqNo 4078 |
| | 81 | prevprocavrepair | Previous Aortic Valve Repair - Surgical<br>*Indicate whether a previous procedure included a surgical aortic valve repair. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 4080 |
| | 82 | prevprocavball | Previous Procedure - Aortic Valve Balloon Valvuloplasty<br>*Indicate whether a previous procedure included an aortic balloon valvuloplasty. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 4085 |
| | 83 | prevproctcvrep | Previous Procedure - Aortic Valve Transcatheter Valve Replacement<br>*Indicate whether a previous procedure included a transcatheter aortic valve replacement procedure. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 4090 |
| | 84 | prevproctcvint | Previous Procedure - Aortic Valve Transcatheter Valve Intervention<br>*Indicate whether a previous procedure included a transcatheter aortic valve intervention (such as a procedure that deploys an occluder or plug for aortic regurgitation). Note(s): This does not include surgical aortic valve repair/replacements, transcatheter AV replacments or AV balloon valvuloplasties. Target Value: Any occurrence between birth and the procedure No Yes* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 4091 |
| | 85 | prevproctcvmodelid | Previous Procedure - AV Transcatheter Valve Model ID<br>*Indicate the model ID implanted in the transcatheter aortic valve replacement procedure. Target Value: Any occurrence between birth and the procedure* | text<br>Field Annotation: v2.1 SeqNo 4092 |
| | 86 | priornonavproc | Section Header: *Other Valve*<br>Prior Non-Aortic Valve Procedure<br>*Indicate whether the patient had a previous surgical or interventional replacement and/or repair of a valve (excluding the aortic valve). Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 4095 |
| | 87 | priormvprocdate_deid | Prior Mitral Valve Procedure Date (Deid)<br>*Indicate the date of the most recent prior mitral valve procedure, if performed. Target Value: Any occurrence between birth and the procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 4097 |
| | 88 | prevprocmvreplace | Previous Procedure - Mitral Valve Replacement - Surgical<br>*Indicate whether a previous procedure included a surgical mitral valve replacement. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 4100 |
| | 89 | prevprocmvreplacetype | Prior Non-Aortic Valve Procedure - Mitral Valve Type<br>*Indicate the type of mitral valve replacement. Target Value: The last value between birth and the procedure* | radio<br>1 Mechanical<br>2 Bioprosthetic (retired)<br>3 Bioprosthetic stented<br>4 Bioprosthetic stentless<br>5 Not Documented<br><br>Field Annotation: v2.1 SeqNo 4105 |

| | # | Variable | Field Label | Field Attributes |
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| | 90 | prevprocmvreplacemodelid | Previous Procedure - Mitral Valve Replacement Model ID<br>*Indicate the model ID of the prosthetic mitral valve. Target Value: The last value between birth and the procedure* | text<br>Field Annotation: v2.1 SeqNo 4106 |
| | 91 | prevprocmvrepair | Previous Procedure - Mitral Valve Repair - Surgical<br>*Indicate whether a previous procedure included a surgical mitral valve repair. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 4110 |
| | 92 | priormaringsurg | Prior Mitral Annuloplasty Ring - Surgical<br>*Indicate if the patient had a prior mitral annuloplasty ring implanted surgically. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes - partial<br>2 Yes - circumferential<br>3 Not documented<br>Field Annotation: v2.1 SeqNo 4111 |
| | 93 | priortmvr | Prior Mitral Valve Transcatheter Intervention<br>*Indicate whether a previous procedure included a transcatheter mitral valve intervention. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 4112 |
| | 94 | priortmvrtype | Prior Mitral Transcatheter Type<br>*Indicate the type of transcatheter mitral valve intervention. Target Value: Any occurrence between birth and the procedure* | dropdown<br>1 Leaflet clip<br>2 Direct annulopasty intervention<br>3 Coronary sinus based intervention<br>4 Valve-in-native valve<br>5 Valve-in-valve<br>6 Other<br>Field Annotation: v2.1 SeqNo 4113 |
| | 95 | priormitralringmodelid | Valve or Ring Model<br>*Indicate the model ID of the prosthetic mitral valve. Target Value: The value between birth and the procedure* | text<br>Field Annotation: v2.1 SeqNo 4116 |
| | 96 | priortricuspidproc | Prior Tricuspid Valve Replacement/Repair<br>*Indicate if the patient had a prior tricuspid valve replacement or repair. Target Value: Any occurrence between birth and the procedure No Yes* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 4118 |
| | 97 | priorpulmonicproc | Prior Pulmonic Valve Replacement/Repair<br>*Indicate if the patient had a prior pulmonic valve replacement or repair. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 4119 |
| | 98 | priorstroke | Section Header: *Other History and Risk Factors*<br>Prior Stroke<br>*Indicate if the patient has a history of a stroke. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 4120 |
| | 99 | priorstrokedate_deid | Most Recent Stroke Date (Deid)<br>*Indicate the date of the most recent stroke. Note(s): If the month or day is unknown, enter 01. Target Value: The last value between birth and the procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 4125 |
| | 100 | cvdtia | Transient Ischemic Attack<br>*Indicate if the patient has a history of a transient ischemic attack. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 4130 |

| | # | Variable | Field Label | Field Attributes |
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| | 101 | cvdcarsten | Carotid Stenosis Assessment<br>*Indicate which carotid artery was determined from any diagnostic test to be greater or equal to 50% stenotic. Target Value: The highest value between birth and the procedure* | dropdown<br>1 None<br>2 Right<br>3 Left<br>4 Both<br>5 Not assessed<br>Field Annotation: v2.1 SeqNo 4135 |
| | 102 | cvdpcarsurg | Prior Carotid Artery Surgery or Stent<br>*Indicate whether the patient has a history of previous carotid artery surgery and/or stenting. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 4140 |
| | 103 | cvdstenrt | Severity of Stenosis - Right Carotid Artery<br>*Indicate the best estimate of the most severe percent stenosis in the right carotid artery. Target Value: The highest value between birth and the procedure* | radio<br>3 50%-79%<br>1 80% to 99%<br>2 100 %<br>4 Stenosis % not available<br>Field Annotation: v2.1 SeqNo 4141 |
| | 104 | cvdstenlft | Severity of Stenosis - Left Carotid Artery<br>*Indicate the best estimate of the most severe percent stenosis in the left carotid artery. Target Value: The highest value between birth and the procedure* | radio<br>3 50%-79%<br>1 80% to 99%<br>2 100 %<br>4 Stenosis % not available<br>Field Annotation: v2.1 SeqNo 4142 |
| | 105 | priorpad | Peripheral Arterial Disease<br>*Indicate if the patient has a history of peripheral arterial disease (PAD) (includes upper and lower extremity, renal, mesenteric, and abdominal aortic systems). Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 4145 |
| | 106 | smoker | Current/Recent Smoker (w/in 1 year)<br>*Indicate if the patient has smoked cigarettes anytime during the year prior. Target Value: Any occurrence between 1 year prior to the procedure and the procedure No Yes* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 4150 |
| | 107 | hypertension | Hypertension<br>*Indicate whether the patient has a diagnosis of hypertension. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 4155 |
| | 108 | diabetes | Diabetes Mellitus<br>*Indicate if the patient has a history of diabetes mellitus regardless of duration of disease or need for antidiabetic agents. Target Value: Any occurrence between birth and the procedure No Yes* | dropdown<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 4165 |

| | # | Variable | Field Label | Field Attributes |
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| | 109 | diabetescontrol | Diabetes Therapy<br>*Indicate the most aggressive diabetes control therapy. Note(s): Patients placed on a pre-procedure diabetic pathway of insulin drip after arrival but were not not insulin therapy (treated by diet or oral method) are not coded as insulin treatment. If a patient had a pancreatic transplant, code 'other', since the insulin from the new pancreas is not exogenous insulin. Do not include 'non-insulin' injectables that may improve blood sugar (such as Byetta) as insulin treatment. Target Value: The last value between birth and prior to the procedure* | dropdown<br>1 None<br>2 Diet<br>3 Oral<br>4 Insulin<br>5 Other<br><br>Field Annotation: v2.1 SeqNo 4170 |
| | 110 | currentdialysis | Currently on Dialysis<br>*Indicate if the patient is currently undergoing either hemodialysis or peritoneal dialysis on an ongoing basis as a result of renal failure. Note(s): If the patient is receiving continuous veno-venous hemofiltration (CVVH) as a result of renal failure (and not as treatment to remove fluid for heart failure), code 'yes'. Target Value: The value on the procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 4175 |
| | 111 | chrlungd | Chronic Lung Disease<br>*Indicate if the patient has a history of chronic lung disease, and severity, if present. Target Value: The value on the procedure* | dropdown<br>1 None<br>2 Mild<br>3 Moderate<br>4 Severe<br><br>Field Annotation: v2.1 SeqNo 4180 |
| | 112 | hmo2 | Home Oxygen<br>*Indicate whether patient uses supplemental oxygen at home. Target Value: The value on arrival at this facility* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 4181 |
| | 113 | hostilechest | Hostile Chest<br>*Indicate if the patient has a medical condition that precludes an open chest procedure and that is documented in the medical record. This can include any of the following or other reasons that make redo operation through sternotomy or right anterior thoracotomy prohibitively hazardous: 1. Evidence of abnormal chest wall anatomy due to severe kyphoscoliosis or other skeletal abnormalities (including thoracoplasty, Potts' disease, sternal bone destruction, evidence of indetectable plane between posterior sternal table and important mediastinal structures ) 2. Complications from prior surgery 3. Prior radiation involving the mediastinum/thoracic, or evidence of severe radiation damage (e.g., skin burns, bone destruction, muscle loss, lung fibrosis or esophageal stricture) 4. History of multiple recurrent pleural effusions causing internal adhesions. 5. Chronic, ongoing open skin defects or extremely severe soft tissue atrophy. 6. Complete absence of reconstructive options based on plastic surgeon consult. Target Value: The value on the procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 4182 |
| | 114 | immsupp | Immunocompromise Present<br>*Indicate whether immunocompromise is present due to immunosuppressive medication therapy. This includes, but is not limited to systemic steroid therapy, anti-rejection medications and chemotherapy. This does not include topical steroid applications, one time systemic therapy, inhaled steroid therapy or preprocedure protocol. Target Value: The value between 30 days prior to the procedure and the procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 4185 |
| | 115 | priormedhome_asa_alone | Section Header: *Home Medications*<br>Aspirin (alone) | radio<br>0 No<br>1 Yes |
| | 116 | priormedhome_betablock | Beta Blocker (any) | radio<br>0 No<br>1 Yes |
| | 117 | priormedhome_acei_arb | ACE or ARB (any) | radio<br>0 No<br>1 Yes |

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| | 118 | priormedhome_aldo | Aldosterone Antagonists | radio<br>0 No<br>1 Yes |
| | 119 | priormedhome_loop_diur | Loop diuretic | radio<br>0 No<br>1 Yes |
| | 120 | priormedhome_thiazides | Diuretics - Thiazides | radio<br>0 No<br>1 Yes |
| | 121 | priormedhome_diur_other | Diuretics (not otherwise specified) | radio<br>0 No<br>1 Yes |
| | 122 | priormedhome_anticoag_any | Anticoagulants (any) | radio<br>0 No<br>1 Yes |
| | 123 | priormedhome_asa_dual | Aspirin (dual antiplatelet therapy) | radio<br>0 No<br>1 Yes |
| | 124 | priormedhome_med_dose | Loop diuretic Dose (mg) | text |
| | 125 | history_risk_factors_complete | Section Header: *Form Status*<br>Complete? | dropdown<br>0 Incomplete<br>1 Unverified<br>2 Complete |

Instrument: **Preprocedure Status** (preprocedure_status) Collapse

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| | 126 | cadpresentation | CAD Presentation<br>*Indicate the patient's coronary artery disease (CAD) presentation. Choose the worst status. Target Value: The highest value between 7 days prior to the procedure and the procedure* | dropdown<br>1 No Sxs, no angina<br>2 Sx unlikely to be ischemic<br>3 Stable angina<br>4 Unstable angina<br>5 Non-STEMI<br>6 STEMI<br><br>Field Annotation: v2.1 SeqNo 5000 |
| | 127 | priormi | Prior MI<br>*Indicate if the patient has had at least one documented previous myocardial infarction. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 5005 |
| | 128 | miwhen | Prior MI Timeframe<br>*Indicate the timeframe of the myocardial infarction. Target Value: The last value between birth and the procedure* | radio<br>1 < 30 Days<br>2 >= 30 Days<br><br>Field Annotation: v2.1 SeqNo 5010 |
| | 129 | cardiomyopathy | Cardiomyopathy<br>*Indicate if the patient has a history of cardiomyopathy. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes - Ischemic<br>2 Yes - Non-ischemic<br><br>Field Annotation: v2.1 SeqNo 5012 |

| | # | Variable | Field Label | Field Attributes |
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| | 130 | prior2weekshf | Heart Failure w/in 2 Weeks<br>*Indicate if there is physician documentation or report that the patient has been in a state of heart failure within the past 2 weeks. Target Value: Any occurrence between 2 weeks prior to the procedure and the procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 5020 |
| | 131 | prior2weeknyha | NYHA Class w/in 2 Weeks<br>*Indicate the patient's functional class, coded as the New York Heart Association (NYHA) classification within the past 2 weeks. Target Value: The highest value between 2 weeks prior to the procedure and the procedure* | dropdown<br>1 Class I<br>2 Class II<br>3 Class III<br>4 Class IV<br><br>Field Annotation: v2.1 SeqNo 5025 |
| | 132 | priorcardioshock | Cardiogenic Shock w/in 24 Hours<br>*Indicate if the patient has been in a state of cardiogenic shock within 24 hrs of procedure. Target Value: Any occurrence between 24 hours prior to the procedure and up to the procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 5030 |
| | 133 | priorcardiacarrest | Cardiac Arrest w/in 24 Hours<br>*Indicate if the patient has had an episode of cardiac arrest within 24 hours of the procedure. Target Value: Any occurrence between 24 hours prior to the procedure and the procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 5035 |
| | 134 | cardiacproc30days | Cardiac Procedure w/in 30 Days<br>*Indicate if the patient has had an interventional, transcatheter or surgical cardiac procedure within 30 days prior to the procedure. Target Value: Any occurrence between 30 days prior to the procedure and the procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 5040 |
| | 135 | porcelainaorta | Porcelain Aorta<br>*Indicate if the patient has a porcelain aorta as documented by findings on a chest x-ray, CT scan, fluoroscopy at the time of cardiac catheterization or noted during previous cardiothoracic surgery. Target Value: Any occurrence between birth and the procedure No Yes* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 5045 |
| | 136 | afibflutter | Atrial Fibrillation/Flutter<br>*Indicate if the patient has a history of atrial fibrillation and/or atrial flutter documented in the medical record. Target Value: Any occurrence between birth and the procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 5050 |
| | 137 | afibclass | Atrial Fibrillation Classification<br>*Indicate whether AFib/Aflutter is paroxysmal or continuous/persistent within 30 days prior to the procedure Target Value: The value between 30 days prior to procedure and procedure* | dropdown<br>1 None<br>2 Persistent<br>3 Paroxysmal<br><br>Field Annotation: v2.1 SeqNo 5052 |
| | 138 | conductiondefect | Conduction Defect<br>*Indicate if the patient has a conduction defect as evidenced by a right or left bundle branch block, sick sinus syndrome, or 1st, 2nd or 3rd degree heart block on ECG. Target Value: Any occurrence on Procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 5055 |
| | 139 | fivemwalktest | Five Meter Walk Test Performed<br>*Indicate whether the five meter walk test was performed. Target Value: The last value between 30 days prior to the procedure and the procedure* | radio<br>0 Not performed<br>1 Yes<br>2 Unable to walk<br><br>Field Annotation: v2.1 SeqNo 5085 |

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| | 140 | fivemwalk1 | Five Meter Walk Time 1<br>*Indicate the time in seconds it takes the patient to walk 5 meters for the first of three tests. Target Value: The last value between 30 days prior to the procedure and the procedure* | text<br>Field Annotation: v2.1 SeqNo 5090 |
| | 141 | fivemwalk2 | Five Meter Walk Time 2<br>*Indicate the time in seconds it takes the patient to walk 5 meters for the second of three tests. Target Value: The last value between 30 days prior to the procedure and the procedure* | text<br>Field Annotation: v2.1 SeqNo 5095 |
| | 142 | fivemwalk3 | Five Meter Walk Time 3<br>*Indicate the time in seconds it takes the patient to walk 5 meters for the third of three tests. Target Value: The last value between 30 days prior to the procedure and the procedure* | text<br>Field Annotation: v2.1 SeqNo 5100 |
| | 143 | stsriskscore | Aortic Valve Replacement - STS Risk Score<br>*Indicate the patient's predicted risk of mortality for surgical aortic valve replacement as determined by the Heart Team and based on the Society for Thoracic Surgeon's risk model. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 5105 |
| | 144 | stsriskmvreplace | Mitral Valve Replacement - STS Risk Score<br>*Indicate the patient's predicted risk of mortality for surgical mitral valve replacement as determined by the Heart Team and based on the Society for Thoracic Surgeon's risk model. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 5106 |
| | 145 | stsriskmvrepair | Mitral Valve Repair - STS Risk Score<br>*Indicate the patient's predicted risk of mortality for surgical mitral valve repair as determined by the Heart Team and based on the Society for Thoracic Surgeon's risk model. Note(s): If LA volume index is documented, LA volume is not required. Need to add a requirement that if one is coded the other can be null. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 5107 |
| | 146 | sixminwalkperf | Six Minute Walk Test Performed<br>*Indicate whether the six minute walk test was performed. Target Value: The last value between 30 days prior to the procedure and the procedure* | dropdown<br>1 Performed<br>2 Not Performed - non cardiac reason<br>3 Not performed - cardiac reason<br>4 Not performed - patient not willing to walk<br>5 Not performed by site<br>Field Annotation: v2.1 SeqNo 5115 |
| | 147 | sixminwalkdate_deid | Six Minute Walk Test Date<br>*Indicate the date the six minute walk test was performed. Target Value: The last value between 30 days prior to the procedure and the procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 5116 |
| | 148 | sixminwalkdist | Total Distance<br>*Indicate the total distance, in feet, the patient walked. Target Value: The last value between 30 days prior to the procedure and the procedure* | text<br>Field Annotation: v2.1 SeqNo 5117 |
| | 149 | kccq12_performed | KCCQ-12 Patient Questionnaire Performed<br>*Indicate if the baseline Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed. Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 5182, KCCQ-12 Overall Summary Score. Target Value: Any occurrence on start of procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5169 |
| | 150 | kccq12_1a | KCCQ-12 Question 1a<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 1a. Heart Failure Limitation - Showering/bathing Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 5182, KCCQ-12 Overall Summary Score. Target Value: The value on start of procedure* | dropdown<br>1 Extremely limited<br>2 Quite a bit limited<br>3 Moderately limited<br>4 Slightly limited<br>5 Not at all limited<br>6 Limited for other reasons or did not do the activity<br>Field Annotation: v2.1 SeqNo 5170 |

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| | 151 | kccq12_1b | KCCQ-12 Question 1b<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 1b. Heart Failure Limitation - Walking 1 block on level ground Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 5182, KCCQ-12 Overall Summary Score. Target Value: The value on start of procedure* | dropdown<br>1 Extremely limited<br>2 Quite a bit limited<br>3 Moderately limited<br>4 Slightly limited<br>5 Not at all limited<br>6 Limited for other reasons or did not do the activity<br><br>Field Annotation: v2.1 SeqNo 5171 |
| | 152 | kccq12_1c | KCCQ-12 Question 1c<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 1c. Heart Failure Limitation - Hurrying or jogging Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 5182, KCCQ-12 Overall Summary Score. Target Value: The value on start of procedure* | dropdown<br>1 Extremely limited<br>2 Quite a bit limited<br>3 Moderately limited<br>4 Slightly limited<br>5 Not at all limited<br>6 Limited for other reasons or did not do the activity<br><br>Field Annotation: v2.1 SeqNo 5172 |
| | 153 | kccq12_2 | KCCQ-12 Question 2<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 2. Symptom Frequency - swelling in legs Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 5182, KCCQ-12 Overall Summary Score. Target Value: The value on start of procedure* | dropdown<br>1 Every morning<br>2 3 or more times per week but not every day<br>3 1-2 times per week<br>4 Less than once a week<br>5 Never over the past 2 weeks<br><br>Field Annotation: v2.1 SeqNo 5173 |
| | 154 | kccq12_3 | KCCQ-12 Question 3<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 3. Symptom Frequency - fatigue Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 5182, KCCQ-12 Overall Summary Score. Target Value: The value on start of procedure* | dropdown<br>1 All of the time<br>2 Several times per day<br>3 At least once a day<br>4 3 or more times per week but not every day<br>5 1-2 times per week<br>6 Less than once a week<br>7 Never over the past 2 weeks<br><br>Field Annotation: v2.1 SeqNo 5174 |
| | 155 | kccq12_4 | KCCQ-12 Question 4<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 4. Symptom Frequency - shortness of breath Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 5182, KCCQ-12 Overall Summary Score. Target Value: The value on start of procedure* | dropdown<br>1 All of the time<br>2 Several times per day<br>3 At least once a day<br>4 3 or more times per week but not every day<br>5 1-2 times per week<br>6 Less than once a week<br>7 Never over the past 2 weeks<br><br>Field Annotation: v2.1 SeqNo 5175 |

| | # | Variable | Field Label | Field Attributes |
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| | 156 | kccq12_5 | KCCQ-12 Question 5<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 5. Symptom Frequency - sleep sitting up due to shortness of breath Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 5182, KCCQ-12 Overall Summary Score. Target Value: The value on start of procedure* | dropdown<br>1 Every night<br>2 3 or more times per week but not every day<br>3 1-2 times per week<br>4 Less than once a week<br>5 Never over the past 2 weeks<br><br>Field Annotation: v2.1 SeqNo 5176 |
| | 157 | kccq12_6 | KCCQ-12 Question 6<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 6. Quality of Life - effect on enjoyment of life due to heart failure Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 5182, KCCQ-12 Overall Summary Score. Target Value: The value on start of procedure* | dropdown<br>1 It has extremely limited my enjoyment of life<br>2 It has limited my enjoyment of life quite a bit<br>3 It has moderately limited my enjoyment of life<br>4 It has slightly limited my enjoyment of life<br>5 It has not limited my enjoyment of life at all<br><br>Field Annotation: v2.1 SeqNo 5177 |
| | 158 | kccq12_7 | KCCQ-12 Question 7<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 7. Quality of life - remaining life with heart failure Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 5182, KCCQ-12 Overall Summary Score. Target Value: The value on start of procedure* | radio<br>1 Not at all satisfied<br>2 Mostly dissatisfied<br>3 Somewhat satisfied<br>4 Mostly satisfied<br>5 Completely satisfied<br><br>Field Annotation: v2.1 SeqNo 5178 |
| | 159 | kccq12_8a | KCCQ-12 Question 8a<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 8a. Social limitation - hobbies, recreational activities Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 5182, KCCQ-12 Overall Summary Score. Target Value: The value on start of procedure* | dropdown<br>1 Severely limited<br>2 Limited quite a bit<br>3 Moderately limited<br>4 Slightly limited<br>5 Did not limit at all<br>6 Does not apply or did not do for other reasons<br><br>Field Annotation: v2.1 SeqNo 5179 |
| | 160 | kccq12_8b | KCCQ-12 Question 8b<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 8b. Social limitation - working or doing household chores Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 5182, KCCQ-12 Overall Summary Score. Target Value: The value on start of procedure* | dropdown<br>1 Severely limited<br>2 Limited quite a bit<br>3 Moderately limited<br>4 Slightly limited<br>5 Did not limit at all<br>6 Does not apply or did not do for other reasons<br><br>Field Annotation: v2.1 SeqNo 5180 |
| | 161 | kccq12_8c | KCCQ-12 Question 8c<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 8c. Social limitation - visiting family or friends Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 5182, KCCQ-12 Overall Summary Score. Target Value: The value on start of procedure* | dropdown<br>1 Severely limited<br>2 Limited quite a bit<br>3 Moderately limited<br>4 Slightly limited<br>5 Did not limit at all<br>6 Does not apply or did not do for other reasons<br><br>Field Annotation: v2.1 SeqNo 5181 |

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| | 162 | kccq12_overall | KCCQ Overall Summary Score<br>*(Auto Calculated) This field is auto-populated by your application. Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Overall Summary Score. Note(s): The 12 patient responses are reduced into four summary scores (Physical Limitation Score, Symptom Frequency Score, Quality of Life Score, Social Limitation Score). The four summary scores are used to calculate the Overall Summary Score. For more information, please refer to the KCCQ-12 Scoring Instructions document provided by the STS/ACC TVT Registry. Target Value: The value on start of procedure* | text<br>Field Annotation: v2.1 SeqNo 5182 |
| | 163 | height | Section Header: *Clinical Data (closest to the procedure)*<br>Height<br>*Indicate the patient's height in centimeters. Target Value: The first value between arrival at this facility and the procedure* | text<br>Field Annotation: v2.1 SeqNo 5200 |
| | 164 | weight | Weight<br>*Indicate the patient's weight in kilograms. Target Value: The last value between arrival at this facility and the procedure* | text<br>Field Annotation: v2.1 SeqNo 5205 |
| | 165 | preprochgb | Pre-Procedure Hemoglobin<br>*Indicate the preprocedure hemoglobin level in g/dL. Target Value: The last value between 30 days prior to procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5250 |
| | 166 | preprochgbnd | Pre-Procedure Hemoglobin Not Drawn<br>*Indicate if a pre-procedure hemoglobin level was not drawn. Code "Yes" if the lab was not drawn.* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5251 |
| | 167 | preproccreat | Pre-Procedure Creatinine<br>*Indicate the creatinine level closest to the date and time prior to the procedure but prior to anesthetic management (induction area, cath lab or operating room), in mg/dL. Note(s): A creatinine level should be collected on all patients, even if they have no prior history. A creatinine value is a high predictor of a patient's outcome and is used in the predicted risk models. Target Value: The last value between 30 days prior to procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5255 |
| | 168 | preproccreatnd | Pre-Procedure Creatinine Not Drawn<br>*Indicate if a preprocedure creatinine level was not drawn. Code "Yes" if the lab was not drawn.* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5256 |
| | 169 | platelets | Platelet Count<br>*Indicate the pre-procedure platelet count in microliters. Target Value: The last value between 30 days prior to procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5260 |
| | 170 | plateletnd | Platelet Count Not Drawn<br>*Indicate if a platelet count was not drawn prior to the procedure. Code "Yes" if the lab was not drawn.* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5261 |
| | 171 | inr | INR<br>*Indicate the pre-procedure International Normalized Ratio (INR). Target Value: The last value between 30 days prior to procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5265 |
| | 172 | inrnd | INR Not Drawn<br>*Indicate if the pre-procedure International Normalized Ratio (INR) was not drawn. Code "Yes" if the lab was not drawn.* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5266 |
| | 173 | totalbumin | Albumin<br>*Indicate the total albumin (in g/dL) closest to the date and time prior to the procedure but prior to anesthetic management (induction area, cath lab or operating room). Target Value: The last value between 30 days prior to procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5270 |
| | 174 | totalbuminnd | Total Albumin Not Drawn<br>*Indicate if the total albumin level was not drawn. Code "Yes" if the lab was not drawn.* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5271 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 175 | totblrbn | Bilirubin<br>*Indicate the total bilirubin (in mg/dL) closest to the date and time prior to the procedure but prior to anesthetic management (induction area, cath lab or operating room). Target Value: The last value between 30 days prior to procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5275 |
| | 176 | totblrbnnd | Total Bilirubin Not Drawn<br>*Indicate if the total bilirubin level was not drawn. Code "Yes" if the lab was not drawn.* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5276 |
| | 177 | bnp | BNP<br>*Indicate the patient's brain natriuretic peptide (BNP) level in pg/ml. Note(s): If BNP was not drawn, leave blank and code 'Yes' for BNP or NT-proBNP or Not Drawn. Target Value: The last value between 6 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5277 |
| | 178 | ntprobnp | NT-proBNP<br>*Indicate the patient's NT-pro- brain natriuretic peptide (BNP) level in pg/ml. Note(s): If NT-proBNP was not drawn, leave blank and code 'Yes' for BNP or NTproBNP Not Drawn. Target Value: The last value between 6 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5278 |
| | 179 | bnpnd | BNP or NT-proBNP Not Drawn<br>*Indicate if a BNP or NT-proBNP level was not drawn. Code "Yes" if the lab was not drawn.* | dropdown<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5279 |
| | 180 | fev1 | Forced Expiratory Volume (FEV1) % Predicted<br>*Indicate the FEV1 % predicted from the most recent pulmonary function test prior to procedure Target Value: The last value between 6 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5280 |
| | 181 | fev1na | Forced Expiratory Volume (FEV1) % Predicted Not Performed<br>*Indicate whether % predicted Forced Expiratory Volume (FEV1) was not performed or the patient did not have a pulmonary function test prior to the procedure. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5281 |
| | 182 | dlcopred | Adjusted DLCO<br>*Indicate the adjusted value of % predicted diffusion capacity of the lung for carbon monoxide (DLCO) value obtained for the patient. This is reported in charts as DLCO/VA% (adjusted value) or D/Vasb (for volume surface body area). Target Value: The last value between 6 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5285 |
| | 183 | dlcona | DLCO Not Performed<br>*Indicate if a lung diffusion test (DLCO) was not performed Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5286 |
| | 184 | nvpqrs | QRS Duration (Non-Ventricular Paced Complex)<br>*Indicate the duration of the non-ventricular paced or intrinsic QRS complex, in milliseconds, that was derived from the surface electrocardiogram (ECG). Surface ECGs are obtained from the surface of the body and do not include intracardiac ECGs. Note(s): Do not code QRS measurements from an intracardiac ECG. If more than one ECG is available, code the value on the ECG closest to the procedure. Target Value: The last value between birth and prior to the first procedure.* | text<br>Field Annotation: v2.1 SeqNo 5290 |
| | 185 | vpqrs | Only Ventricular Paced QRS Complexes Present<br>*Indicate if there were only ventricular paced QRS complexes present. Note(s): If the patient has some intrinsic ventricular complexes present, code 'No'. Target Value: The last value between birth and prior to the first procedure.* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5291 |
| | 186 | preprocmed_unfrac_heparin | Section Header: *Medications (administered within 24 hours prior to the procedure)*<br>Unfractionated Heparin (any)<br>*Indicate whether the patient received the medication within 24 hours preceding the procedure.* | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 187 | preprocmed_asa_any | Aspirin (any)<br>*Indicate whether the patient received the medication within 24 hours preceding the procedure.* | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 188 | preprocmed_thromb | Direct Thrombin Inhibitor (other)<br>*Indicate whether the patient received the medication within 24 hours preceding the procedure.* | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 189 | preprocmed_anticoag_other | Anticoagulants (other)<br>*Indicate whether the patient received the medication within 24 hours preceding the procedure.* | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 190 | preprocmed_inotr_pos | Inotropes (positive)<br>*Indicate whether the patient received the medication within 24 hours preceding the procedure.* | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 191 | preprocmed_anticoag_any | Anticoagulants (any)<br>*Indicate whether the patient received the medication within 24 hours preceding the procedure.* | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 192 | dxcathper | Section Header: *Diagnostic Cath Finding*<br>Diagnostic Catheterization<br>*Indicate whether diagnostic cardiac catheterization was performed. Target Value: The last value between 12 months prior to the procedure and start of the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5500 |
| | 193 | dxcathdt_deid | Diagnostic Catheterization Date (Deid)<br>*Indicate the date the diagnostic catheterization was performed. Target Value: The last value between 12 months prior to the procedure and start of the procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 5505 |
| | 194 | numdisv | Number of Diseased Vessels<br>*Indicate the number of diseased major native coronary vessel systems: LAD system, Circumflex system, and/or Right system with >= 50% narrowing of any vessel preoperatively. Note(s): Left main disease (>=50%) is counted as TWO vessels (LAD and Circumflex, which may include a Ramus Intermedius). For example, left main and RCA would count as three total. Target Value: The highest value between birth and start of the procedure* | radio<br>0 None<br>1 1<br>2 2<br>3 3<br>Field Annotation: v2.1 SeqNo 5506 |
| | 195 | lmaindis | Left Main >=50%<br>*Indicate whether the patient has Left Main Coronary Disease. Left Main Coronary Disease is present when there is >= 50% compromise of vessel diameter preoperatively. Target Value: The last value between 12 months prior to the procedure and start of the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5507 |
| | 196 | proxlad | Prox LAD >=70%<br>*Indicate whether the percent luminal narrowing of the proximal left anterior descending artery at the point of maximal stenosis is greater than or equal to 70%. Target Value: The last value between 12 months prior to the procedure and start of the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5508 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 197 | lvefna | Left Ventricle Ejection Fraction Not Assessed<br>*Indicate whether the left ventricular ejection fraction was not assessed or not measured prior to the induction of anesthesia. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5566 |
| | 198 | lvef | Left Ventricle Ejection Fraction<br>*Indicate the percentage of the blood emptied from the left ventricle at the end of the contraction. Note(s): Use the most recent determination prior to the surgical intervention documented on a diagnostic report. Enter a percentage in the range of 1 - 99. If a percentage range is reported, report a whole number using the 'mean' (i.e., 50-55%, is reported as 53%). If only a descriptive value is reported, (i.e., normal), enter the corresponding percentage value from the list below: Normal = 60% Good function = 50% Mildly reduced = 45% Fair function = 40% Moderately reduced = 30% Poor function = 25% Severely reduced = 20% Target Value: The last value between 12 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5565 |
| | 199 | cona | Cardiac Output Not Performed<br>*Indicate whether the cardiac output was not measured pre-procedure. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5569 |
| | 200 | cardiacoutput | Cardiac Output<br>*Indicate the cardiac output in L/min, documented by pre-procedure diagnostic cardiac cath findings. Target Value: The last value between 12 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5567 |
| | 201 | rvsys | Right Ventricular Systolic Pressure<br>*Indicate the highest right ventricular systolic pressure in mmHg recorded prior to the start of the procedure. Note(s): If a value is available from both echo and cardiac cath, code the value from the cardiac cath. Target Value: The last value between 12 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5568 |
| | 202 | pcwpnm | Pulmonary Capillary Wedge Pressure Not Measured<br>*Indicate if the pulmonary capillary wedge pressure was not measured pre-procedure. Target Value: N/A No Yes* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5591 |
| | 203 | pcwp | Pulmonary Capillary Wedge Pressure<br>*Indicate the pre-procedure pulmonary capillary wedge pressure, in mmHg. Note(s): If more than one PCWP is available, code the value determined by cardiac catheterization. Target Value: The last value between 12 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5590 |
| | 204 | papmeannm | Pulmonary Artery Pressure (Mean) Not Measured<br>*Indicate if the pre-procedure pulmonary artery mean pressure was not measured pre-procedure. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5594 |
| | 205 | papmean | Pulmonary Artery Pressure (Mean)<br>*Indicate the pre-procedure pulmonary artery mean pressure, in mmHg. Target Value: The last value between 12 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5593 |
| | 206 | papsysnm | Pulmonary Artery Pressure (Systolic) Not Measured<br>*Indicate if the pre-procedure pulmonary artery systolic pressure was not measured pre-procedure. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5597 |
| | 207 | papsys | Pulmonary Artery Pressure (Systolic)<br>*Indicate if the pre-procedure pulmonary artery systolic pressure, in mmHg. Target Value: The last value between 12 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5596 |
| | 208 | rapnm | Right Atrial Pressure/CVP (Mean) Not Measured<br>*Indicate if the pre-procedure right atrial pressure or central venous pressure (CVP) was not measured pre-procedure. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5599 |

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| | 209 | rapmean | Right Atrial Pressure/CVP (Mean)<br>*Indicate the pre-procedure right atrial pressure or central venous pressure (CVP), in mmHg. Target Value: The last value between 12 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5598 |
| | 210 | lvidsnm | Section Header: *Echocardiogram Findings*<br>Left Ventricular Internal Systolic Dimension Not Measured<br>*Indicate if the left ventricular internal systolic dimension was not measured pre-procedure. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5608 |
| | 211 | lvids | Left Ventricular Internal Systolic Dimension<br>*Indicate the pre-procedure left ventricular internal systolic dimension in cm. Note(s): If more than one LV internal systolic diameter is available, code the value determined by echocardiography. Using a 2D method, it is recommended that LV internal dimensions (LVIDd and LVIDs, respectively) be measured at the level of the LV minor dimension, at the mitral chordae level. Target Value: The last value between 12 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5595 |
| | 212 | lviddnm | Left Ventricular Internal Diastolic Dimension Not Measured<br>*Indicate if the left ventricular internal diastolic dimension was not measured pre-procedure. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5609 |
| | 213 | lvidd | Left Ventricular Internal Diastolic Dimension<br>*Indicate the pre-procedure left ventricular internal diastolic dimension in cm. If more than one LV internal diastolic diameter is available, code the value determined by echocardiography. Note(s): Using a 2D method, it is recommended that LV internal dimensions (LVIDd and LVIDs, respectively) be measured at the level of the LV minor dimension, at the mitral chordae level. Target Value: The last value between 12 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5600 |
| | 214 | lvesvnm | Left Ventricular End Systolic Volume Not Measured<br>*Indicate if the left ventricular end systolic volume was not measured pre-procedure. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5602 |
| | 215 | lvesv | Left Ventricular End Systolic Volume<br>*Indicate the left ventricular end systolic volume in ml, documented by pre-procedure echocardiogram. Target Value: The last value between 12 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5601 |
| | 216 | lvedvnm | Left Ventricular End Diastolic Volume Not Measured<br>*Indicate if the left ventricular end diastolic volume was not measured pre-procedure. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5604 |
| | 217 | lvedv | Left Ventricular End Diastolic Volume<br>*Indicate the left ventricular end diastolic volume in ml, documented by pre-procedure echocardiogram. Target Value: The last value between 12 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5603 |
| | 218 | septalwall | Septal Wall Thickness<br>*Indicate the pre-procedure septal wall thickness, in cm, measured at end-diastole. Note(s): If more than one septal wall thickness is available, code the value determined by echocardiography. Target Value: The last value between 12 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5605 |
| | 219 | lavol | Left Atrial Volume<br>*Indicate the left atrial volume in ml, documented by pre-procedure echocardiogram. Note(s): If LA volume is documented, LA volume index is not required. Target Value: The last value between 12 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5606 |
| | 220 | lavolindex | Left Atrial Volume Index<br>*Indicate the left atrial volume index in mL/m2, documented by pre-procedure echocardiogram. Note(s): If the left atrial volume is documented, leave this field blank. Target Value: The last value between 12 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5607 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 221 | posteriorwall | Posterior Wall Thickness<br>*Indicate the pre-procedure posterior wall thickness, in cm, measured at end-diastole. Note(s): If more than one posterior wall thickness is available, code the value determined by echocardiography. Target Value: The last value between 12 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5610 |
| | 222 | vdinsufa | Section Header: *Aortic Valve Disease*<br>Aortic Regurgitation<br>*Indicate the severity of aortic valve regurgitation. Note(s): Code mild-moderate as mild and moderate-severe as moderate. Reference: Bonow, R.O, et al. 2008 Focused Updated Incorporated into ACC/AHA 2006 Guidelines for the Management of Patients with Valvular Heart Disease: A Report of the American College of Cardiology /American Heart Association Task force on Practice Guidelines. JACC, vol 52, No. 13, 2008, p. e1-e142. Target Value: The highest value between 12 months prior to the procedure and start of the procedure* | radio<br>0 None<br>1 Trace/Trivial<br>2 Mild<br>3 Moderate<br>4 Severe<br>Field Annotation: v2.1 SeqNo 5630 |
| | 223 | vdaoet | Aortic Valve Disease - Disease Etiology<br>*Indicate primary etiology of aortic valve disease. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure* | dropdown<br>1 Degenerative<br>2 Endocarditis<br>3 Congenital<br>4 Rheumatic fever<br>5 Primary aortic disease<br>6 LV outflow tract obstruction<br>7 Supravalvular aortic stenosis<br>8 Tumor<br>9 Trauma<br>10 Other<br>Field Annotation: v2.1 SeqNo 5620 |
| | 224 | avdmorphology | Aortic Valve Disease - Valve Morphology<br>*Indicate the morphology of the aortic valve. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure* | radio<br>1 Unicuspid<br>2 Bicuspid<br>3 Tricuspid<br>4 Quadracuspid<br>5 Uncertain<br>Field Annotation: v2.1 SeqNo 5640 |
| | 225 | avdannularcalc | Aortic Valve Disease - Annular Calcification<br>*Indicate if annular calcification is present on the aortic valve. Code yes if echo reports document calcificaton in the aortic valve leaflets, aorta adjacent to the AV, leaflets or the left ventricular outflow tract (LVOT), or if echo reports document AV calcific degeneration. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5645 |
| | 226 | avdpeakvelocity | Aortic Valve Disease - AV Peak Velocity (CW)<br>*Indicate the aortic valve peak velocity, in meters per second, as determined by continuous wave (CW) spectral velocity recording on echocardiography. Target Value: The highest value between 12 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5650 |
| | 227 | avdannulussize | Aortic Valve Disease - AV Annulus Size<br>*Indicate the size, in mm, of the aortic valve annulus. Note(s): If more than one size is reported, code the mean. Target Value: The last value between 12 months prior to the procedure and prior to valve implant* | text<br>Field Annotation: v2.1 SeqNo 5655 |
| | 228 | avdannulussizemethod | Aortic Valve Disease - AV Annulus Size Assessment Method<br>*Indicate the method used to assess the aortic valve annulus size. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure* | dropdown<br>1 TTE<br>2 TEE<br>3 CTA<br>4 Angiography<br>Field Annotation: v2.1 SeqNo 5660 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 229 | vdstena | Aortic Stenosis<br>*Indicate whether aortic stenosis is present. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5665 |
| | 230 | vdaova | Aortic Stenosis - AV Area<br>*Indicate the smallest aortic valve area (in cm squared) obtained from an echocardiogram or cath report. Target Value: The lowest value between 12 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5670 |
| | 231 | vdgrada | Aortic Stenosis - AV Mean Gradient<br>*Indicate the highest MEAN gradient (in mmHg) across the aortic valve obtained from an echocardiogram or angiogram preoperatively. Target Value: The highest value between 12 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5675 |
| | 232 | avdstenosispeakgradient | Aortic Stenosis - AV Peak Gradient<br>*Indicate the aortic valve peak gradient in mmHg. Target Value: The highest value between 12 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5680 |
| | 233 | vdinsuft | Section Header: *Tricuspid Valve Disease*<br>Tricuspid Valve Regurgitation<br>*Indicate whether there is evidence of tricuspid valve regurgitation. Enter level of valve function associated with highest risk (i.e., worst performance). Note(s): Code mild-moderate as mild and moderate-severe as moderate Target Value: The highest value between 12 months prior to the procedure and start of the procedure* | radio<br>0 None<br>1 Trace/Trivial<br>2 Mild<br>3 Moderate<br>4 Severe<br>Field Annotation: v2.1 SeqNo 5735 |
| | 234 | vdmit | Section Header: *Mitral Valve Disease*<br>Mitral Valve Disease<br>*Indicate whether mitral valve disease is present. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5685 |
| | 235 | vdinsufm | MV Regurgitation<br>*Indicate the severity of mitral valve regurgitation according to the American Society of Echocardiography Guidelines integrated approach. Target Value: The highest value between 12 months prior to the procedure and start of the procedure* | radio<br>0 None<br>1 Trace/Trivial<br>2 Mild<br>3 Moderate<br>5 Moderate-Severe<br>6 Severe<br>4 Severe (retired)<br>Field Annotation: v2.1 SeqNo 5695 |
| | 236 | vdinsufmpara | Paravalvular Severity<br>*Indicate the severity of paravalvular mitral regurgitation. Target Value: The highest value between 12 months prior to the procedure and start of the procedure* | radio<br>0 None<br>1 Mild<br>3 Moderate<br>4 Severe<br>5 Not Documented<br>Field Annotation: v2.1 SeqNo 5696 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 237 | vdinsufmv | Valvular Severity<br>*Indicate the severity of valvular mitral regurgitation. Target Value: The highest value between 12 months prior to the procedure and start of the procedure* | radio<br>0 None<br>1 Mild<br>3 Moderate<br>4 Severe<br>5 Not Documented<br>Field Annotation: v2.1 SeqNo 5697 |
| | 238 | vdmiteoa | Effective Orifice Area (EOA)<br>*Indicate the effective orifice area (EOA), in cm2. Target Value: The highest value between 12 months prior to the procedure and start of the procedure* | text |
| | 239 | vdmiteoa_moa | Method of Assessment<br>*Indicate the method used to assess the effective orifice area. If multiple methods are available, code the 3D planimetry method first, then PISA. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure* | radio<br>1 3D planimetry<br>2 PISA<br>3 Quantitative doppler<br>4 Other<br>Field Annotation: v2.1 SeqNo 5699 |
| | 240 | vdstenm | Mitral Valve Disease - Mitral Valve Stenosis<br>*Indicate whether mitral stenosis is present. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5705 |
| | 241 | vdmva | Mitral Valve Stenosis - Mitral Valve Area<br>*Indicate the smallest mitral valve area in centimeters squared. Note(s): If more than one measurement is available, code the area from the echocardiogram. Target Value: The highest value between 12 months prior to the procedure and start of the procedure* | text<br>Field Annotation: v2.1 SeqNo 5710 |
| | 242 | vdgradm | Mitral Valve Mean Gradient<br>*Indicate the highest mean gradient (in mm Hg) across the mitral valve. Note(s): If more than one measurement is available, code the area from the echocardiogram. Target Value: The highest value between 12 months prior to the procedure and start of the procedure* | text |
| | 243 | vdmprosvetio | Prosthetic Mitral Valve Dysfunction Etiology<br>*Indicate the etiology of the prosthetic mitral valve dysfunction. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure* | radio<br>1 Primary/degenerative bioprosthetic valve failure<br>2 Pannus formation<br>3 Thrombus formation<br>4 Other<br>Field Annotation: v2.1 SeqNo 5742 |
| | 244 | mvdetiofmr | Section Header: *Mitral Valve Disease Etiology*<br>Functional Mitral Regurgitation<br>*Indicate if the mitral valve disease etiology was functional. Typically the valve structures (i.e.. leaflets and chord tendinae) are normal in functional mitral regurgitation, but a variety of diseases (such as a prior myocardial infarction or cardiomyopathy) compromises the leaflets ability to coapt (i.e. form a tight seal when closed) and results in mitral regurgitation. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5745 |
| | 245 | mvdetiodmr | Degenerative Mitral Regurgitation<br>*Indicate if the mitral valve disease etiology was degenerative. Degenerative mitral valve disease is due to multiple conditions that lead to abnormal leaflets and/or chordae that result and mitral regurgitation. The leaflets may prolapse or flail into the left atrium. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5746 |
| | 246 | mvdetioinflam | Post-Inflammatory<br>*Indicate if the mitral valve disease etiology was post - inflammatory. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5747 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 247 | mvdetioendoc | Endocarditis<br>*Indicate if the mitral valve disease etiology was endocarditis. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 5748 |
| | 248 | mvdetioother | Other/Indeterminate<br>*Indicate if the mitral valve disease etiology was indeterminant or not otherwise specfied. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 5749 |
| | 249 | fmrtype | Functional Mitral Regurgitation Type<br>*Indicate the type of functional mitral regurgitation. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure* | dropdown<br>1 Ischemic-acute, post infarction<br>2 Ischemic-chronic<br>3 Non-ischemic dilated cardiomyopathy<br>4 Restrictive cardiomyopathy<br>5 Hypertrophic cardiomyopathy<br>6 Pure annular dilation (with normal left ventricular systolic function)<br>7 Not Documented<br><br>Field Annotation: v2.1 SeqNo 5755 |
| | 250 | mvdleafpro | Leaflet Prolapse<br>*Indicate if there was leaflet prolapse. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure* | radio<br>0 None<br>1 Anterior<br>2 Posterior<br>3 Bi-leaflet<br>4 Not Documented<br><br>Field Annotation: v2.1 SeqNo 5760 |
| | 251 | mvdleafflail | Leaflet Flail<br>*Indicate if there was leaflet flail. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure* | radio<br>0 None<br>1 Anterior<br>2 Posterior<br>3 Bi-leaflet<br>4 Not Documented<br><br>Field Annotation: v2.1 SeqNo 5765 |
| | 252 | inflamtype | Inflammatory Type<br>*Indicate type of inflammatory mitral valve disease. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure* | dropdown<br>1 Idiopathic<br>2 Prior radiation therapy<br>3 Collagen vascular disease<br>4 Drug induced<br>5 History of rheumatic fever<br>6 Not Documented<br><br>Field Annotation: v2.1 SeqNo 5770 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 253 | mvdleafteth | Leaflet Tethering<br>*Indicate if there was leaflet tethering. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure* | radio<br>0 None<br>1 Anterior<br>2 Posterior<br>3 Bi-leaflet<br>4 Not Documented<br>Field Annotation: v2.1 SeqNo 5775 |
| | 254 | manncalc | Mitral Annular Calcification<br>*Indicate if there was mitral annular calcification. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure* | radio<br>0 No<br>1 Yes<br>2 Not Documented<br>Field Annotation: v2.1 SeqNo 5800 |
| | 255 | mleafcalc | Mitral Leaflet Calcification<br>*Indicate if there was mitral leaflet calcification. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure* | radio<br>0 No<br>1 Yes<br>2 Not Documented<br>Field Annotation: v2.1 SeqNo 5810 |
| | 256 | carpentier | Carpentier's Functional Class of Mitral Regurgitation<br>*Indicate the Carpentier's Functional Class of mitral regurgitation. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure* | radio<br>1 Type I<br>2 Type II<br>3 Type IIIa<br>4 Type IIIb<br>5 Not Documented<br>Field Annotation: v2.1 SeqNo 5820 |
| | 257 | mrrindfrail | Section Header: *Leaflet Clip Procedure Reasons/Indications*<br>Leaflet Indication - Frailty<br>*Indicate if the indication for the leaflet clip procedure was frailty. Frailty must be assessed by an in-person consultation by a cardiac surgeon. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5900 |
| | 258 | mrrindhostile | Leaflet Indication - Hostile Chest<br>*Indicate if the indication for the leaflet clip procedure was hostile chest. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5901 |
| | 259 | mrrindliver | Leaflet Indication - Severe Liver Disease (Cirrhosis or MELD score >12)<br>*Indicate if the indication for the leaflet clip procedure was severe liver disease, documented by cirrhosis or a "model for end-stage liver disease (MELD) score >12 (which quantifies end stage liver disease). Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5902 |
| | 260 | mrrindpa | Leaflet Indication - Porcelain Aorta<br>*Indicate if the indication for the leaflet clip procedure was porcelain aorta or extensively calcified ascending aorta. Porcelain aorta must be documented by findings on a chest x-ray, CT scan, fluoroscopy at the time of cardiac catheterization or noted during previous cardiothoracic surgery. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5903 |
| | 261 | mrrindopm8 | Leaflet Indication - Predicted STS MV Replacement Operative Mortality Risk >=8%<br>*Indicate if the indication for the leaflet clip procedure was a predicted risk of mortality for surgical mitral valve replacement of >=8% as determined by the Heart Team and based on the Society for Thoracic Surgeon's risk model. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5904 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 262 | mrrindopm6 | Leaflet Indication - Predicted STS MV Repair Operative Mortality Risk >=6%<br>*Indicate if the indication for the leaflet clip procedure was a predicted risk of mortality for surgical mitral valve repair of >=6% as determined by the Heart Team and based on the Society for Thoracic Surgeon's risk model. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5905 |
| | 263 | mrrindunusual | Leaflet Indication - Unusual Extenuating Circumstances<br>*Indicate if the indication for the leaflet clip procedure was an unusual extenuating circumstance resulting in prohibitive risk for mitral valve surgery. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5906 |
| | 264 | mrrindrvdysfx | Other Extenuating Circumstance - Right Ventricular Dysfunction with Severe TR<br>*Indicate if the unusual extenuating circumstance included right ventricular dysfunction with severe tricupsid regurgitation resulting in prohibitive risk for mitral valve surgery. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5907 |
| | 265 | mrrindchemo | Other Extenuating Circumstance - Chemotherapy for Malignancy<br>*Indicate if the unusual extenuating circumstance included chemotherapy for malignancy resulting in prohibitive risk for mitral valve surgery. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5908 |
| | 266 | mrrindbleed | Other Extenuating Circumstance - Major Bleeding Diathesis<br>*Indicate if the unusual extenuating circumstance included major bleeding diathesis resulting in prohibitive risk for mitral valve surgery. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5909 |
| | 267 | mrrindimmob | Other Extenuating Circumstance - Immobililty<br>*Indicate if the unusual extenuating circumstance included immobility resulting in prohibitive risk for mitral valve surgery. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5910 |
| | 268 | mrrindaids | Other Extenuating Circumstance - AIDS<br>*Indicate if the unusual extenuating circumstance included acquired immunodeficiency syndrome (AIDS) resulting in prohibitive risk for mitral valve surgery. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5911 |
| | 269 | mrrinddem | Other Extenuating Circumstance - Severe Dementia<br>*Indicate if the unusual extenuating circumstance included severe dementia resulting in prohibitive risk for mitral valve surgery. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5912 |
| | 270 | mrrindaspir | Other Extenuating Circumstance - High Risk of Aspiration<br>*Indicate if the unusual extenuating circumstance included that the patient is at high risk for aspiration resulting in prohibitive risk for mitral valve surgery. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5913 |
| | 271 | mrrindima | Other Extenuating Circumstance - IMA at High Risk of Injury<br>*Indicate if the unusual extenuating circumstance includes the patient having an internal mammary artery (IMA) at high risk for injury resulting in prohibitive risk for mitral valve surgery. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5914 |
| | 272 | mrrindother | Other Extenuating Circumstance - Other<br>*Indicate if the unusual extenuating circumstance includes a reason, not otherwise specified resulting in prohibitive risk for mitral valve surgery. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 5915 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 273 | mrrindspecify | Other - Specify Reason Why Patient is Prohibitive Risk<br>*Indicate if the patient is having a leaflet clip for an 'other indication of unusual extenuating circumstance which was not otherwise specified' describe the reason why the patient is at prohibitive risk. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 5916 |
| | 274 | preprocedure_status_complete | Section Header: *Form Status*<br>Complete? | dropdown<br>0 Incomplete<br>1 Unverified<br>2 Complete |
| Instrument: **Procedure Information** (procedure_information) | | | | Collapse |
| | 275 | tvtopa_lastname | TVT Operator A Last Name<br>*Indicate the last name of TVT implant operator A. Note(s): At least one operator is required. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 6000 |
| | 276 | tvtopa_firstname | TVT Operator A First Name<br>*Indicate the first name of TVT implant operator A. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 6005 |
| | 277 | tvtopa_midname | TVT Operator A Middle Name<br>*Indicate the middle name of TVT implant operator A. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 6010 |
| | 278 | tvtopa_npi | TVT Operator A NPI<br>*Indicate the National Provider Identifer (NPI) of TVT implant operator A. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 6015 |
| | 279 | tvtopb_lastname | TVT Operator B Last Name<br>*Indicate the last name of TVT implant operator B. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 6020 |
| | 280 | tvtopb_firstname | TVT Operator B First Name<br>*Indicate the first name of TVT implant operator B. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 6025 |
| | 281 | tvtopb_midname | TVT Operator B Middle Name<br>*Indicate the middle name of TVT implant operator B. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 6030 |
| | 282 | tvtopb_npi | TVT Operator B NPI<br>*Indicate the National Provider Idenifier (NPI) of TVT implant operator B. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 6035 |
| | 283 | tvtprocedurestartdate_deid | Procedure Start Date (Deid)<br>*Indicate the date of the procedure. The index procedure is defined as the initial transcatheter valve procedure of the hospitalization. Target Value: The value on current procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 6040 |
| | 284 | tvtprocedurestarttime | Procedure Start Time<br>*Indicate the time the patient exits the procedure room. Note(s): Indicate the time (hours:minutes) using the military 24-hour clock, beginning at midnight (00:00 hours). Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 6046 |
| | 285 | tvtprocedurestopdate_deid | Procedure Stop Date (Deid)<br>*Indicate the date the patient exits the procedure room. Target Value: The last value on current procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 6045 |
| | 286 | tvtprocedurestoptime | Procedure Stop Time<br>*Indicate the time the patient exits the procedure room. Note(s): Indicate the time (hours:minutes) using the military 24-hour clock, beginning at midnight (00:00 hours). Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 6046 |
| | 287 | status | Procedure Status<br>*Indicate the clinical status of the patient prior to the procedure. Target Value: The highest value on current procedure* | dropdown<br>1 Elective<br>2 Urgent<br>3 Emergency<br>4 Salvage<br>Field Annotation: v2.1 SeqNo 6055 |
| | 288 | proctavr | Procedure - Transcatheter Aortic Valve Replacement (TAVR)<br>*Indicate if a transcatheter aortic valve replacement procedure was being performed. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 6600 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 289 | proctmvr | Procedure - Transcatheter Mitral Valve Replacement<br>*Indicate if a transcatheter mitral valve replacement procedure was being performed. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 6601 |
| | 290 | procleafclip | Procedure - Mitral Leaflet Clip Procedure<br>*Indicate if a mitral leaflet clip procedure was being performed. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 6602 |
| | 291 | otherproc | Other Procedure Performed Concurrently<br>*Indicate if an other procedure was performed concurrently. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes - PCI<br>2 Yes - Other<br>Field Annotation: v2.1 SeqNo 6620 |
| | 292 | cpb | CardioPulmonary Bypass Used<br>*Indicate if cardiopulmonary bypass or coronary perfusion was used during the procedure. Target Value: Any occurrence on the procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 6100 |
| | 293 | cpbstatus | CardioPulmonary Bypass Status<br>*Indicate if the use of cardiopulmonary bypass was elective or emergent. Target Value: The value on current procedure* | radio<br>1 Elective<br>2 Emergent<br>Field Annotation: v2.1 SeqNo 6101 |
| | 294 | perfustm | Cardiopulmonary Bypass Time<br>*Indicate the total number of minutes that systemic return is diverted into the cardiopulmonary bypass (CPB) circuit and returned to the systemic system. This time period (Cardiopulmonary Bypass Time) includes all periods of cerebral perfusion and sucker bypass. This time period (Cardiopulmonary Bypass Time) excludes any circulatory arrest and modified ultrafiltration periods. If more than one period of CPB is required during the procedure, the sum of all the CPB periods will equal the total number of CPB minutes. Target Value: The total between start of the procedure and end of the procedure* | text<br>Field Annotation: v2.1 SeqNo 6105 |
| | 295 | anesthesiatype | Anesthesia Type<br>*Indicate the type of anesthesia used for the procedure. Target Value: The value on start of procedure* | radio<br>1 Moderate sedation<br>2 General anesthesia<br>3 Epidural<br>4 Combination<br>Field Annotation: v2.1 SeqNo 6110 |
| | 296 | intraproc_unfrac_heparin | Section Header: *INTRA-PROCEDURE MEDICATIONS (ADMINISTERED DURING THE PROCEDURE)*<br>Unfractionated Heparin (any) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 297 | intraproc_thromb | Direct Thrombin Inhibitor (other) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |

| | | | | |
|---|---|---|---|---|
| | 298 | intraproc_anticoag_other | Anticoagulants (other) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 299 | intraproc_inotr_pos | Inotropes (positive) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 300 | fluoromethod | Section Header: *Post Implant - Radiation*<br>Radiation Dose Measurement Method<br>*Indicate the method used to collect the radiation dose. Target Value: The value on current procedure Single Plane Biplane* | text<br>1 Single Plane<br>2 Biplane<br>Field Annotation: v2.1 SeqNo 6455 |
| | 301 | flurotime | Fluoroscopy Time<br>*Indicate the total fluoroscopy time recorded to the nearest 0.1 minute. Note(s): Please collect Fluoroscopy Time, Reference Air Kerma and Kerma Area Product values, if available. Target Value: The total between start of the procedure and end of the procedure* | text<br>Field Annotation: v2.1 SeqNo 6460 |
| | 302 | fluorodosekerm | Fluoroscopy Dose - Cumulative Air Kerma<br>*Indicate the total radiation dose (Cumulative Air Kerma, or Reference Air Kerma) recorded to the nearest milligrays (mGy). The value recorded should include the total dose for the lab visit. Note(s): Please collect Fluoroscopy Time, Cumulative Air Kerma and Dose Area Product values, if available. If biplane equipment is used, collect the total dose of both planes and add them together. Target Value: The total between start of the procedure and end of the procedure* | text<br>Field Annotation: v2.1 SeqNo 6465 |
| | 303 | fluorodosedap | Fluoroscopy Dose - Dose Area Product<br>*Indicate the total radiation Dose Area Product (kerma area product) to the nearest integer. The value recorded should include the total dose for the lab visit. Note(s): Please collect Fluoroscopy Time, Cumulative Air Kerma and Dose Area Product values, if available. If biplane equipment is used, collect the total dose of both planes and add them together. Target Value: The total between start of the procedure and end of the procedure* | text<br>Field Annotation: v2.1 SeqNo 6470 |
| | 304 | fluorodosedapunit | Dose Area Product Units<br>*Indicate the units reported for radiation Dose Area Product (Kerma area product). Target Value: N/A* | radio<br>1 Gy-cm2<br>2 cGy-cm2<br>3 mGy-cm2<br>4 uGy-M2<br>Field Annotation: v2.1 SeqNo 6475 |
| | 305 | aux11 | Auxiliary 11<br>*Reserved for future use. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 29325 |
| | 306 | aux12 | Auxiliary 12<br>*Reserved for future use. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 29330 |
| | 307 | procedure_information_complete | Section Header: *Form Status*<br>Complete? | dropdown<br>0 Incomplete<br>1 Unverified<br>2 Complete |

Instrument: **Tavr Procedure** (tavr_procedure) Collapse

| | | | | |
|---|---|---|---|---|
| | 308 | tvtprocedureindication | Section Header: *TAVR*<br>Primary Procedure Indication<br>*Indicate the PRIMARY indication for the procedure. (Choose the most significant if more than one is present.) Target Value: The value on current procedure* | dropdown<br>1 Primary Aortic Stenosis<br>2 Primary Aortic Insufficiency<br>3 Mixed AS/AI<br>4 Failed Bioprosthetic Valve<br>Field Annotation: v2.1 SeqNo 6060 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 309 | tvtlocation | Procedure Location<br>*Indicate the location where the procedure was performed. Target Value: The value on current procedure* | radio<br>1 Hybrid OR Suite<br>2 Hybrid Cath Lab Suite<br>3 Cath Lab<br>4 Other<br><br>Field Annotation: v2.1 SeqNo 6050 |
| | 310 | valveinvalve | Valve-in-Valve Procedure<br>*Indicate if a 'valve-in-valve' procedure was performed during the procedure. Note(s): A 'valve-in-valve' procedure implies that the patient has a previously implanted bioprosthetic valve, and the procedure you are documenting is now an additional bioprosthetic valve replacement. Target Value: Any occurrence on current procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 6065 |
| | 311 | valveinvalvestatus | Valve-in-Valve Status<br>*Indicate the status of the valve-in-valve procedure. Target Value: The value on current procedure* | radio<br>1 Elective<br>2 Immediate intraprocedure<br><br>Field Annotation: v2.1 SeqNo 6070 |
| | 312 | operatorreason | Operator Reason for Procedure<br>*Indicate the operator's reason for the transcatheter valve replacement procedure. Refer to the data specification for definitions.* | dropdown<br>9 Low Risk<br>8 Intermediate Risk<br>6 High risk<br>7 Inoperable/Extreme Risk<br>1 Patient preference (retired)<br>2 Inoperable (technical) (retired)<br>4 Prohibitive risk (debilitated/deconditioned patient) (retired)<br>3 Prohibitive risk (co-morbid conditions) (retired)<br>5 Other (retired)<br><br>Field Annotation: v2.1 SeqNo 6071 |
| | 313 | evalavrsuit | Evaluation of Suitability for Open AVR by Two Surgeons<br>*Indicate if two surgeons evaluated the suitability for open heart aortic valve replacement surgery. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 6072 |
| | 314 | procedureabort | Procedure Aborted<br>*Indicate whether the current case was canceled or aborted after patient entered the procedure location. Target Value: Any occurrence on current procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 6075 |
| | 315 | procedureabortreason | Procedure Aborted Reason<br>*Indicate the reason why the current aortic procedure was canceled or aborted. Target Value: The value on current procedure* | radio<br>7 Access related issue<br>5 Navigation issue after successful access<br>8 New clinical findings<br>9 Device or delivery system malfunction<br>10 Patient status/complication of procedure<br>11 Consent issue<br>12 System issue<br>6 Other<br><br>Field Annotation: v2.1 SeqNo 6080 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 316 | procedureabortaction | Procedure Aborted Action<br>*Indicate the reason or action take as a result of the aborted aortic procedure. Target Value: The value on current procedure* | dropdown<br>1 Balloon valvuloplasty<br>2 Rescheduled transcatheter procedure<br>3 Conversion to open heart surgery<br>4 Converted to medical therapy<br>5 Converted to clinical trial<br>6 Other<br><br>Field Annotation: v2.1 SeqNo 6082 |
| | 317 | convsurgaccess | Conversion to Open Heart Surgery<br>*Indicate if conversion to open heart surgical access was required. Note(s): Open heart surgical access is the creation of an incision to open the chest and provide direct access to the heart. It may or may not involve placing the patient on cardiopulmonary bypass. Target Value: Any occurrence on current procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 6085 |
| | 318 | convsurgaccessreason | Conversion to Open Heart Surgery Reason (Aortic)<br>*Indicate the reason for conversion to open heart surgical access (aortic procedures). Target Value: The value on current procedure* | dropdown<br>1 Valve dislodged to aorta<br>2 Valve dislodged to left ventricle<br>3 Venticular rupture<br>4 Annulus rupture<br>5 Aortic dissection<br>6 Coronary occlusion<br>7 Other<br><br>Field Annotation: v2.1 SeqNo 6090 |
| | 319 | preprocmechassist | Mechanical Assist Device in Place at Start of Procedure<br>*Indicate if that patient had a mechanical assist device in place at the start of the procedure. Target Value: The value on start of procedure* | dropdown<br>1 No<br>2 Yes - IABP<br>3 Yes - Catheter-based assist device<br><br>Field Annotation: v2.1 SeqNo 6095 |
| | 320 | contrastvol | Section Header: *TAVR Post Implant*<br>Contrast Volume<br>*Indicate the volume of contrast (ionic and non-ionic) used in milliliters (ml). The volume recorded should be the total volume for the procedure. Target Value: The total between start of the procedure and end of the procedure* | text<br>Field Annotation: v2.1 SeqNo 6450 |
| | 321 | post_meanavgrad | Post-Implant Mean Aortic Valve Gradient<br>*Indicate the post-implant mean aortic valve gradient in mmHg. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 6385 |
| | 322 | postcalcavarea | Post-Implant Calculated Aortic Valve Area<br>*Indicate the post-implant calculated aortic valve area, in centimeters squared. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 6395 |
| | 323 | aux5 | Auxiliary 5<br>*Reserved for future use. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 6505 |
| | 324 | aux6 | Auxiliary 6<br>*Reserved for future use. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 6510 |
| | 325 | tavr_procedure_complete | Section Header: *Form Status*<br>Complete? | dropdown<br>0 Incomplete<br>1 Unverified<br>2 Complete |

Instrument: **Tavr Device** (tavr_device) Collapse

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 326 | tvtdevicecounter | Device Counter<br>*This is a software-assigned value. The counter will start at one and be incremented by one for each device or system used. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 6220 |
| | 327 | tvtdeviceid | Device Id | text |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 328 | tvtaccesssite | Valve Sheath Access Site (Aortic)<br>*Indicate the access site for the valve sheath. Target Value: Any occurrence on current procedure* | dropdown<br>1 Femoral<br>2 Auxillary<br>3 Transapical<br>4 Transaortic<br>5 Subclavian<br>7 Transiliac<br>8 Transeptal<br>9 Transcarotid<br>6 Other<br><br>Field Annotation: v2.1 SeqNo 6200 |
| | 329 | tvtaccessmethod | Valve Sheath Access Method<br>*Indicate the access method used to deliver the valve sheath. Target Value: Any occurrence on current procedure* | radio<br>1 Percutaneous<br>2 Cutdown<br>3 Mini thoracotomy<br>4 Mini sternotomy<br>5 Other<br><br>Field Annotation: v2.1 SeqNo 6205 |
| | 330 | valvesheathdelivery | Valve Sheath Delivery Size<br>*Indicate the size, in french, of the valve sheath delivery system. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 6210 |
| | 331 | tvtdeviceserno | Device Serial Number<br>*Indicate the serial number of all valves attempted or implanted into the patient. Note(s): Serial numbers are only required for valves. If a kit is used, specify the serial number of the valve used from the kit. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 6230 |
| | 332 | deviceimplantsuccessful | Device Implanted Successfully<br>*Indicate if there is correct positioning of a single prosthetic heart valve in the proper anatomical location.* | yesno<br>1 Yes<br>0 No<br><br>Field Annotation: v2.1 SeqNo 6232 |
| | 333 | tvtdevicesuccess | Device Success<br>*Indicate if the device deployment was successful, as defined by the Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation Clinical Trials (JACC, 2011, vol 57, No 3). Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 6235 |
| | 334 | valve_udidirectid | Valve Device UDI Direct Identifier<br>*[Reserved for Future Use] Indicate the direct identifier portion of the Unique Device Identifier (UDI) associated with the device used during the procedure. This ID is provided by the device manufacturer, and is either a GTIN or HIBBC number. Note(s): The direct identifier portion of the UDI (unique device identifier) is provided by the manufacturer, specified at the unit of use. This is not the package barcode. The value should be mapped from your supply chain or inventory management system into this field. Depending on the device and manufacturer, this number could be between 12 to 25 digits. - GTIN / GS1 standard: numeric, 12 - 14 characters - HIBCC standard: alphanumeric, 25 characters - ISBT-128: alphanumeric, 25 characters If a device was not used, leave blank. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 6236 |
| | 335 | valve_udilotnum | Valve Device UDI Lot Number<br>*[Reserved for Future Use] Indicate the lot number associated with the device used to close the access site. This lot number is provided by the device manufacturer, and should be available within your supply chain or EHR system. Lot numbers indicate the specific manufacturing source or process. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 6237 |
| | 336 | valve_udiexpdate | Valve Device UDI Expiration Date<br>*[Reserved for Future Use] Indicate the expiration date associated with the device used to close the access site. This expiration date is provided by the device manufacturer, and should be available within your supply chain or EHR system. Target Value: The value on current procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 6238 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 337 | tavr_device_complete | Section Header: *Form Status*<br>Complete? | dropdown<br>0 Incomplete<br>1 Unverified<br>2 Complete |
| Instrument: **Mrr Procedure** (mrr_procedure) | | | | |
| | 338 | mrr_procrmarrivaldate_deid | Section Header: *Mitral Leaflet Clip*<br>Procedure Room Arrival Date (Mitral Repair) (Deid)<br>*Indicate the date the patient arrived into the procedure room. Target Value: The value on current procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 26060 |
| | 339 | mrr_procrmarrivaltime | Procedure Room Arrival Time (Mitral Repair)<br>*Indicate the time the patient arrived into the procedure room. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 26061 |
| | 340 | anesthstarttime | Anesthesia Induction Time<br>*Indicate the time of anesthesia induction. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 26070 |
| | 341 | anesthstoptime | Anesthesia Discontinuation Time<br>*Indicate the time of anesthesia discontinuation. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 26071 |
| | 342 | accessstarttime | Procedure Access (Or TEE) Start Time<br>*Indicate the time of intravascular catheter or transesophageal echocardiogram (TEE) probe insertion (whichever is first) Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 26075 |
| | 343 | accessstoptime | Procedure Access (Or TEE) Stop Time<br>*Indicate the time the last catheter, or transesophageal echocardiogram probe was removed (whichever was last). Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 26076 |
| | 344 | septalaccessstarttime | Transseptal Access Start Time<br>*Indicate the time the septum was accessed. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 26080 |
| | 345 | septumcrosstime | Septum Crossed Time<br>*Indicate the time the septum was crossed. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 26081 |
| | 346 | sgcseptime | Steerable Guiding Cath in Intra-Atrial Septum Time<br>*Indicate the time the steerable guiding catheter was in the intra-atrial septum. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 26086 |
| | 347 | delretrtime | Delivery System Retracted Time<br>*Indicate the time the last delivery system was retracted into the steerable guiding catheter. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 26091 |
| | 348 | sgcremovetime | Steerable Guiding Cath Device Removal (From Femoral Vein)<br>*Indicate the time the steerable guiding catheter was retracted from the femoral vein. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 26096 |
| | 349 | mrr_convsurgaccess | Conversion to Open Heart Surgery (Mitral Repair)<br>*Indicate if conversion to open heart surgical access was required. Target Value: Any occurrence on current procedure* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 26105 |
| | 350 | mrr_mvsupport | Mechanical Assist Device (Mitral Repair)<br>*Indicate if the patient was placed on a mechanical assist device. Target Value: The value between arrival and discharge* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 26140 |
| | 351 | mrr_supporttiming | Mechanical Assist Device Timing (Mitral Repair)<br>*Indicate when the mechanical assist device was inserted. Target Value: The value between arrival and discharge* | radio<br>1 Pre-procedure<br>2 Intraprocedure<br>3 Postprocedure<br>Field Annotation: v2.1 SeqNo 26141 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 352 | mrr_supporttype | Mechanical Assist Device Type (Mitral Repair)<br>*Indicate the type of mechanical assist device that was inserted. Target Value: N/A IABP Catheter-based assist device* | dropdown<br>1 IABP<br>2 Catheter-based assist device<br>Field Annotation: v2.1 SeqNo 26142 |
| | 353 | mrr_post_mr | Post-Implant Mitral Regurgitation (Mitral Repair)<br>*Indicate the severity of mitral valve regurgitation. Note(s): Code mild-moderate as mild. Target Value: The value on current procedure* | radio<br>0 None<br>1 Trace/Trivial<br>2 Mild<br>3 Moderate<br>4 Moderate-severe<br>5 Severe<br>Field Annotation: v2.1 SeqNo 26285 |
| | 354 | mrr_post_gradm | Post-Implant MV Mean Gradient (Mitral Repair)<br>*Indicate the mitral valve mean gradient, in mm Hg. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 26290 |
| | 355 | aux9 | Auxiliary 9<br>*Reserved for future use. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 26325 |
| | 356 | aux10 | Auxiliary 10<br>*Reserved for future use. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 26330 |
| | 357 | mrr_procedure_complete | Section Header: *Form Status*<br>Complete? | dropdown<br>0 Incomplete<br>1 Unverified<br>2 Complete |
| Instrument: **Mitral Clip Device** (mitral_clip_device) | | | | Collapse |
| | 358 | mrr_counter | Leaflet Clip Counter (Mitral Repair)<br>*The leaflet clip counter is used to distinguish between multiple leaflet clips attempted or deployed. Note(s): The software-assigned leaflet clip counter should start at one and be incremented by one for each clip. The leaflet clip counter is reset back to one for each new Leaflet Clip procedure. The leaflet clip counter is used to distinguish between multiple clips used during a procedure. At least one clip must be specified for each leaflet clip procedure. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 26240 |
| | 359 | leafaccess | Leaflet Clip Guiding Cath Access Site<br>*Indicate the leaflet clip guiding catheter access site. Target Value: The value on current procedure* | radio<br>1 Right femoral vein<br>2 Left femoral vein<br>3 Jugular vein<br>4 Other vein<br>Field Annotation: v2.1 SeqNo 6212 |
| | 360 | steerableguideused | Steerable Guide Model ID<br>*Indicate the steerable guide cath model ID utilized during the current procedure. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 26180 |
| | 361 | mrr_guideserno | Steerable Guide Cath Serial Number<br>*Indicate the manufacturer serial number for the steerable guide used during the procedure. Target Value: The value on the current procedure* | text<br>Field Annotation: v2.1 SeqNo 26182 |
| | 362 | leafletclipused | Leaflet Clip Model ID (Mitral Repair)<br>*Indicate all leaflet clip model IDs utilized during the current procedure. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 26245 |
| | 363 | mrr_leafletclipnum | Leaflet Clip Serial Number (Mitral Repair)<br>*Indicate the leaflet clip delivery system serial number. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 26250 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 364 | mrr_udidirectid | Leaflet Clip UDI Direct Identifier (Mitral Repair)<br>*[Reserved for Future Use] Indicate the direct identifier portion of the Unique Device Identifier (UDI) associated with the device used during the procedure. This ID is provided by the device manufacturer, and is either a GTIN or HIBBC number. Note(s): The direct identifier portion of the UDI (unique device identifier) is provided by the manufacturer, specified at the unit of use. This is not the package barcode. The value should be mapped from your supply chain or inventory management system into this field. Depending on the device and manufacturer, this number could be between 12 to 25 digits. - GTIN / GS1 standard: numeric, 12 - 14 characters - HIBCC standard: alphanumeric, 25 characters - ISBT-128: alphanumeric, 25 characters If a device was not used, leave blank. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 26255 |
| | 365 | mrr_udilotnum | Leaflet Clip UDI Lot Number (Mitral Repair)<br>*[Reserved for Future Use] Indicate the lot number associated with the device used during the leaflet clip procedure. This lot number is provided by the device manufacturer, and should be available within your supply chain or EHR system. Lot numbers indicate the specific manufacturing source or process. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 26260 |
| | 366 | mrr_udiexpdate | Leaflet Clip UDI Expiration Date (Mitral Repair)<br>*[Reserved for Future Use] Indicate the expiration date associated with the leaflet clip device used during the procedure. This expiration date is provided by the device manufacturer, and should be available within your supply chain or EHR system. Target Value: The value on current procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 26265 |
| | 367 | mrr_loc | Location (Mitral Repair)<br>*Indicate the location on the mitral valve where the leaflet clip was attached.* | radio<br>1 A1P1<br>2 A2P2<br>3 A3P3<br>Field Annotation: v2.1 SeqNo 26270 |
| | 368 | mrr_leafletclipdeploy | Leaflet Clip Deployed (Mitral Repair)<br>*Indicate if the leaflet clip was deployed.* | yesno<br>1 Yes<br>0 No<br>Field Annotation: v2.1 SeqNo 26275 |
| | 369 | mrr_leafletclipnotdeploy | Leaflet Clip Reason Not Deployed (Mitral Repair)<br>*Indicate the reason why the leaflet clip was not deployed.* | dropdown<br>1 Inability to grasp leaflets<br>2 Inability to reduce mitral regurgitation<br>3 Mitral stenosis<br>4 Mitral valve injury<br>5 Device malfunction<br>6 Adverse event<br>7 Other |
| | 370 | mitral_clip_device_complete | Section Header: *Form Status*<br>Complete? | dropdown<br>0 Incomplete<br>1 Unverified<br>2 Complete |

Instrument: **Mvr Procedure** (mvr_procedure) Collapse

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 371 | mvr_operatorreason | Section Header: *Mitral Valve in Valve or Valve in Ring*<br>Mitral Replacement - Operator Reason for Procedure<br>*Indicate the operator's reason for the transcatheter valve replacement procedure. Note(s): If choosing between multiple reasons, choose the 'most important' or 'highest significant' reason or factor. Target Value: The value on current procedure* | dropdown<br>9 Low Risk<br>8 Intermediate Risk<br>6 High risk<br>7 Inoperable/Extreme Risk<br>Field Annotation: v2.1 SeqNo 29115 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 372 | mvr_procedureabort | Mitral Replacement - Procedure Aborted<br>*Indicate whether the current case was canceled or aborted after patient entered the procedure location. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 29120 |
| | 373 | mvr_procedureabortreason | Mitral Replacement - Procedure Aborted Reason<br>*Indicate the reason why the current aortic procedure was canceled or aborted. Target Value: The value on current procedure* | dropdown<br>5 Navigation issue after successful access<br>7 Other Access related issue<br>8 New clinical findings<br>9 Device or delivery system malfunction<br>10 Patient status/complication of procedure<br>11 Consent issue<br>12 System issue<br>13 Transseptal access related<br>6 Other<br><br>Field Annotation: v2.1 SeqNo 29125 |
| | 374 | mvr_procedureabortaction | Mitral Replacement - Procedure Aborted Action<br>*Indicate the reason or action take as a result of the aborted aortic procedure. Target Value: The value on the current procedure* | dropdown<br>1 Balloon Valvuloplasty<br>2 Rescheduled transcatheter procedure<br>3 Conversion to open heart surgery<br>4 Converted to medical therapy<br>5 Converted to clinical trial<br>7 Open heart surgery scheduled<br>6 Other<br><br>Field Annotation: v2.1 SeqNo 29127 |
| | 375 | mvr_convsurgaccess | Mitral Replacement - Conversion to Open Heart Surgery<br>*Indicate if conversion to open heart surgical access was required. Note(s): Open heart surgical access is the creation of an incision to open the chest and provide direct access to the heart. It may or may not involve placing the patient on cardiopulmonary bypass. Target Value: Any occurrence on current procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 29130 |
| | 376 | mvr_convsurgmitral | Mitral Replacement - Conversion to Open Heart Surgery Reason<br>*Indicate the reason for conversion to open heart surgical access (mitral procedures). Target Value: The value on current procedure Access related problem/injury Inability to position device Valve injury Device embolization Tamponade/bleeding in the heart Other* | dropdown<br>1 Access related problem/injury<br>2 Inability to position device<br>3 Valve injury<br>4 Device embolization<br>5 Tamponade/bleeding in the heart<br>6 Other<br><br>Field Annotation: v2.1 SeqNo 29135 |
| | 377 | mvr_mvsupport | Mitral Replacement - Mechanical Assist Device<br>*Indicate if the patient was placed on a mechanical assist device. Target Value: The value between arrival and discharge* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 29140 |
| | 378 | mvr_mvsupporttiming | Mitral Replacement - Mechanical Assist Device Timing<br>*Indicate when the mechanical assist device was inserted. Target Value: The first value between arrival and discharge* | radio<br>1 Pre-procedure<br>2 Intraprocedure<br>3 Postprocedure<br><br>Field Annotation: v2.1 SeqNo 29145 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 379 | mvr_mvsupporttype | Mechanical Assist Device Type<br>*Indicate the type of mechanical assist device that was inserted. Target Value: N/A IABP Catheter-based assist device* | dropdown<br>1 IABP<br>2 Catheter-based assist device<br><br>Field Annotation: v2.1 SeqNo 29146 |
| | 380 | mvaccesssite | Mitral Replacement - Procedure Access Site<br>*Indicate the access site used to perform the mitral procedure. Target Value: The value on current procedure* | radio<br>1 Transseptal<br>2 Transapical<br>3 Direct left atrium<br>4 Femoral artery<br>5 Other<br><br>Field Annotation: v2.1 SeqNo 29180 |
| | 381 | mvr_mvpreballoon | Pre-Implant Balloon Inflation Performed<br>*Indicate if pre-implant balloon inflation was performed. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 29185 |
| | 382 | mvr_mvhemdet | Significant Hemodynamic Deterioration After Inflation<br>*Indicate if significant hemodynamic deterioration occurred after inflation. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 29190 |
| | 383 | mvr_mvpostballoon | Post-Implant Balloon Inflation Performed<br>*Indicate if post-implant balloon inflation was performed. Target Value: The value on current procedure* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 29195 |
| | 384 | mvr_devimpsuccessful | Mitral Replacement - Device Implanted Successfully<br>*Indicate if there is correct positioning of a single prosthetic heart valve in the proper anatomical location.* | yesno<br>1 Yes<br>0 No<br><br>Field Annotation: v2.1 SeqNo 29225 |
| | 385 | mvr_post_mr | Mitral Replacement - Post-Implant Mitral Regurgitation<br>*Indicate the severity of mitral valve regurgitation. Target Value: The value on current procedure* | radio<br>0 None<br>1 Trace/Trivial<br>2 Mild<br>3 Moderate<br>4 Moderate-severe<br>5 Severe<br><br>Field Annotation: v2.1 SeqNo 29285 |
| | 386 | mvr_post_meanmvgrad | Mitral Replacement - Post-Implant MV Mean Gradient<br>*Indicate the mitral valve mean gradient, in mm Hg. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 29290 |
| | 387 | mvr_contrastvol | Mitral Replacement - Contrast Volume<br>*Indicate the volume of contrast (ionic and non-ionic) used in milliliters (ml). The volume recorded should be the total volume for the procedure. Target Value: The total between start of the procedure and end of the procedure* | text<br>Field Annotation: v2.1 SeqNo 29295 |
| | 388 | mvr_procedure_complete | Section Header: *Form Status*<br>Complete? | dropdown<br>0 Incomplete<br>1 Unverified<br>2 Complete |

Instrument: **Tmvr Device** (tmvr_device) Collapse

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 389 | mvr_devicecounter | MVR - Device Counter<br>*This is a software-assigned value. The counter will start at one and be incremented by one for each device or system used. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 29200 |
| | 390 | mvr_deviceid | MVR - Device Used<br>*Indicate all devices (valves, sheaths and delivery systems) utilized during the current procedure. If the valve, sheath and delivery system were separate components, code the manufacturer, model name and number for the sheath and delivery system as well as the manufacturer, model name and number, and serial number for all valves attempted and deployed during the procedure. Note(s): Specify the devices in the order they were used. If a kit is used, do not code the separate components within the kit. Specify the serial number of the valve used from the kit. If more than one valve is placed (valve-in-valve) during the procedure, specify all devices and corresponding serial numbers (Seq Num 29205). Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 29201 |
| | 391 | mvr_deviceserno | MVR - Device Serial Number<br>*Indicate the serial number of all valves attempted or implanted into the patient. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 29205 |
| | 392 | mvr_valve_udidirectid | MVR - Valve Device UDI Direct Identifier<br>*[Reserved for Future Use] Indicate the direct identifier portion of the Unique Device Identifier (UDI) associated with the device used during the procedure. This ID is provided by the device manufacturer, and is either a GTIN or HIBBC number. Note(s): The direct identifier portion of the UDI (unique device identifier) is provided by the manufacturer, specified at the unit of use. This is not the package barcode. The value should be mapped from your supply chain or inventory management system into this field. Depending on the device and manufacturer, this number could be between 12 to 25 digits. - GTIN / GS1 standard: numeric, 12 - 14 characters - HIBCC standard: alphanumeric, 25 characters - ISBT-128: alphanumeric, 25 characters If a device was not used, leave blank. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 29210 |
| | 393 | mvr_valve_udilotnum | MVR - Valve Device UDI Lot Number<br>*[Reserved for Future Use] Indicate the lot number associated with the device used to close the access site. This lot number is provided by the device manufacturer, and should be available within your supply chain or EHR system. Lot numbers indicate the specific manufacturing source or process. Target Value: The value on current procedure* | text<br>Field Annotation: v2.1 SeqNo 29215 |
| | 394 | mvr_valve_udiexpdate | MVR - Valve Device UDI Expiration Date<br>*[Reserved for Future Use] Indicate the expiration date associated with the device used to close the access site. This expiration date is provided by the device manufacturer, and should be available within your supply chain or EHR system. Target Value: The value on current procedure* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 29220 |
| | 395 | tmvr_device_complete | Section Header: *Form Status*<br>Complete? | dropdown<br>0 Incomplete<br>1 Unverified<br>2 Complete |
| Instrument: **Postop** (postop) | | | | Collapse |
| | 396 | postprochgb | Section Header: *Post Procedure Labs*<br>Post-Procedure Hemoglobin<br>*Indicate the lowest post-procedure hemoglobin level in g/dL. Target Value: The lowest value between end of procedure and discharge* | text<br>Field Annotation: v2.1 SeqNo 8040 |
| | 397 | postprochgbnd | Post-Procedure Hemoglobin Not Drawn<br>*Indicate if a post procedure hemoglobin level was not drawn. Code "Yes" if the lab was not drawn.* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 8041 |
| | 398 | postproccreat | Post-Procedure Creatinine Level<br>*Indicate the highest postoperative creatinine level, in mg/dL. If more than one level is obtained, code the highest level. Target Value: The highest value between end of procedure and discharge* | text<br>Field Annotation: v2.1 SeqNo 8050 |
| | 399 | postproccreatnd | Post-Procedure Creatinine Level Not Drawn<br>*Indicate if a post procedure creatinine level was not drawn. Code "Yes" if the lab was not drawn.* | dropdown<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 8051 |
| | 400 | dc_creat | Discharge Creatinine<br>*Indicate the last post-procedure creatinine level documented in the medical record prior to discharge, in mg/dL. Target Value: The last value between end of procedure and discharge* | text<br>Field Annotation: v2.1 SeqNo 8055 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 401 | dc_creatnd | Discharge Creatinine Not Drawn<br>*Indicate if a discharge creatinine level was not drawn. Code "Yes" if the lab was not drawn.* | dropdown<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 8056 |
| | 402 | popekg | Post-Procedure 12 Lead ECG<br>*Indicate the post procedure 12 lead ECG findings, if performed. If more than one ECG is performed, document the findings from the ECG closest to discharge. Target Value: The last value between end of procedure and discharge* | radio<br>1 Not performed<br>2 No significant changes<br>3 New pathological Q-wave or LBBB<br>Field Annotation: v2.1 SeqNo 8060 |
| | 403 | popttech | Section Header: *Post Procedure Echo*<br>Post-Procedure Echocardiogram<br>*Indicate whether an echo (and the type of echo) was performed postoperatively prior to discharge. Note(s): If both types of echos were performed, code 'Yes - Tranesophageal Echocardiogram'. Target Value: Any occurrence between end of the procedure and discharge* | radio<br>1 Not Performed<br>2 Yes - TTE<br>3 Yes - TEE<br>Field Annotation: v2.1 SeqNo 8065 |
| | 404 | popttechdate_deid | Post-Procedure Echocardiogram Date (Deid)<br>*Indicate the date the echo was performed. Target Value: The value between end of procedure and discharge* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 8070 |
| | 405 | popttar | Post-Procedure Aortic Regurgitation<br>*Indicate the highest level of aortic regurgitation found on the echocardiogram. Note(s): Code mild-moderate as mild and moderate-severe as moderate. Reference: Bonow, R.O, et al. 2008 Focused Updated Incorporated into ACC/AHA 2006 Guidelines for the Management of Patients with Valvular Heart Disease: A Report of the American College of Cardiology /American Heart Association Task force on Practice Guidelines. JACC, vol 52, No. 13, 2008, p. e1-e142. Target Value: The highest value between end of procedure and discharge* | radio<br>0 None<br>1 Trace/Trivial<br>2 Mild<br>3 Moderate<br>4 Severe<br>Field Annotation: v2.1 SeqNo 8095 |
| | 406 | post_aorticvalveinsuffperi | TAVR - Paravalvular Severity<br>*Indicate the highest severity of paravalvular aortic insufficiency. Target Value: The highest value between end of procedure and discharge* | radio<br>0 None<br>2 Mild<br>3 Moderate<br>4 Severe<br>5 Not Documented<br>Field Annotation: v2.1 SeqNo 8106 |
| | 407 | post_aorticvalveinsuffcent | TAVR - Valvular Severity<br>*Indicate the highest severity of central aortic insufficiency. Target Value: The highest value between end of procedure and discharge* | radio<br>0 None<br>2 Mild<br>3 Moderate<br>4 Severe<br>5 Not Documented<br>Field Annotation: v2.1 SeqNo 8107 |
| | 408 | post_aorticstenosis | Post-Procedure Aortic Stenosis<br>*Indicate whether aortic stenosis is present. Target Value: Any occurrence between end of the procedure and discharge* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 8080 |
| | 409 | post_aorticvalvearea | Post-Procedure Aortic Valve Area<br>*Indicate the smallest aortic valve area (in cm2) obtained from an echocardiogram. Target Value: The lowest value between end of procedure and discharge* | text<br>Field Annotation: v2.1 SeqNo 8085 |

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|---|---|---|---|---|
| | 410 | post_avpeakvelocity | Post-Procedure Aortic Valve Peak Velocity<br>*Indicate the aortic valve peak velocity in meters per second, as determined by continuous wave (CW) spectral velocity recording on echocardiography. Target Value: The highest value between end procedure and discharge* | text<br>Field Annotation: v2.1 SeqNo 8086 |
| | 411 | post_avmeangradient | Post-Procedure Aortic Valve Mean Gradient<br>*Indicate the aortic valve mean gradient in mmHg obtained from echocardiogram. Target Value: The highest value between end of procedure and discharge* | text<br>Field Annotation: v2.1 SeqNo 8090 |
| | 412 | popttmr | Post-Procedure Mitral Regurgitation<br>*Indicate the highest level of mitral regurgitation found on echocardiogram prior to discharge. Note(s): Code mild-moderate as mild. Target Value: The highest value between end of procedure and discharge* | radio<br>0 None<br>1 Trace/Trivial<br>2 1+/Mild<br>3 2+/Moderate<br>5 3+/Moderate-Severe<br>6 4+/Severe<br>4 Severe (retired)<br>Field Annotation: v2.1 SeqNo 8075 |
| | 413 | post_paramr | Mitral Replacement - Paravalvular Severity<br>*Indicate the highest severity of paravalvular mitral regurgitation. Target Value: The highest value between end of current procedure and discharge* | radio<br>0 None<br>2 Mild<br>3 Moderate<br>4 Severe<br>5 Not Documented<br>Field Annotation: v2.1 SeqNo 8112 |
| | 414 | post_valvmr | Mitral Replacement - Valvular Severity<br>*Indicate the highest severity of valvular mitral aortic regurgitation. Target Value: The highest value between end of current procedure and discharge* | radio<br>0 None<br>2 Mild<br>3 Moderate<br>4 Severe<br>5 Not Documented<br>Field Annotation: v2.1 SeqNo 8115 |
| | 415 | post_mveoa | Effective Orifice Area (EOA)<br>*Indicate the effective orifice area (EOA), in cm2. Target Value: The highest value on discharge* | text<br>Field Annotation: v2.1 SeqNo 8122 |
| | 416 | post_eoamethod | EOA Method Of Assessment<br>*Indicate the method used to measure the effective orifice area. Target Value: The highest value between end of current procedure and discharge* | radio<br>1 3D Planimetry<br>2 PISA<br>3 Quantitative Doppler<br>4 Other<br>Field Annotation: v2.1 SeqNo 8125 |
| | 417 | post_mvmeangrad | Mitral Valve Mean Gradient<br>*Indicate the highest mean gradient (in mm Hg) across the mitral valve. Target Value: The highest value between end of current procedure and discharge* | text<br>Field Annotation: v2.1 SeqNo 8130 |
| | 418 | post_mvarea | Mitral Valve Area<br>*Indicate the smallest mitral valve area in centimeters squared. Target Value: (None)* | text<br>Field Annotation: v2.1 SeqNo 8135 |
| | 419 | post_lvot | Left Ventricular Outflow Tract Gradient (Peak)<br>*Indicate the peak gradient of the left ventricular outflow tract. Target Value: The highest value between end of current procedure and discharge.* | text |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 420 | post_sam | Systolic Anterior Motion Present<br>*Indicate if systolic anterior motion was present. Target Value: Any occurrence between end of current procedure and discharge.* | radio<br>0 No<br>1 Yes |
| | 421 | postop_complete | Section Header: *Form Status*<br>Complete? | dropdown<br>0 Incomplete<br>1 Unverified<br>2 Complete |
| Instrument: **Hospital Event** (hospital_event) | | | | Collapse |
| | 422 | ce_eventoccurred | Section Header: *Adverse Events*<br>Intra or Post Procedure Event Occurred<br>*Indicate if any intra or post procedure event occurred. Target Value: Any occurrence between start of the procedure and discharge* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 7300 |
| | 423 | ce_eventdate_deid | Intra or Post Procedure Event Date (Deid)<br>*Indicate the date of any adverse events, interventions, or surgical procedures that occurred intra or post procedure. Note(s): If an event occurred more than once, specify each Intra/Post Procedure Event ID (7301) with its corresponding date. Target Value: The value between start of procedure and discharge* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 7302 |
| | 424 | ce_eventid | Intra or Post Procedure Event ID<br>*Indicate all adverse events, interventions or surgical procedures that occurred intra or post procedure. Note(s): If an event occurred more than once, specify each event with its corresponding Intra/Post Procedure Event Date (Seq Number 7302). Target Value: The value between start of procedure and discharge* | text<br>Field Annotation: v2.1 SeqNo 7301 |
| | 425 | ce_eventname | Intra or Post Procedure Event Name | text |
| | 426 | hospital_event_complete | Section Header: *Form Status*<br>Complete? | dropdown<br>0 Incomplete<br>1 Unverified<br>2 Complete |
| Instrument: **Discharge** (discharge) | | | | Collapse |
| | 427 | dc_rbc | RBC/Whole Blood Transfusion<br>*Indicate if there was a transfusion of either whole blood or packed red blood cells. Target Value: Any occurrence between start of the procedure and discharge* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 9011 |
| | 428 | dc_rbcunit | RBC/Whole Blood Transfusion Units Transfused<br>*Indicate the total number of units transfused of either whole blood and/or packed red blood cells. Note(s): Do not include autologous, cell-saver or chest tube recirculated blood. Target Value: The total between start of the procedure and discharge* | text<br>Field Annotation: v2.1 SeqNo 9012 |
| | 429 | icuhours | Number of Hours in ICU<br>*Indicate the total number of hours spent in the intensive care unit. Do not include hours spent in a telemetry or step-down unit. Target Value: The total between end of the procedure and discharge* | text<br>Field Annotation: v2.1 SeqNo 9040 |
| | 430 | dcdate_deid | Discharge Date (Deid)<br>*Indicate the date on which the patient was discharged from your facility. Note(s): If the deceased is an organ donor, code the Discharge Date as the date of the final organ harvest. Target Value: The value on discharge* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 9045 |
| | 431 | dcstatus | Discharge Status<br>*Indicate whether the patient was alive or deceased at discharge. Target Value: The value on discharge* | radio<br>1 Alive<br>2 Deceased<br>Field Annotation: v2.1 SeqNo 9050 |

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| | 432 | dclocation | Discharge Location<br>*Indicate the location to where the patient was discharged. Target Value: The value on discharge* | radio<br>1 Home<br>2 Extended care/TCU/rehab<br>3 Other acute care hospital<br>4 Nursing home<br>5 Hospice<br>6 Other<br>7 Left against medical advice<br><br>Field Annotation: v2.1 SeqNo 9055 |
| | 433 | deathdate_deid | Death Date (Deid) | text |
| | 434 | deathlocation | Death in Lab/OR<br>*If the patient expired during this hospitalization, indicate if the patient expired in the cath lab, operating room or hybrid suite. Target Value: The value on discharge* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 9060 |
| | 435 | deathcause | Primary Cause of Death<br>*Select the PRIMARY cause of death, i.e. the first significant abnormal event which ultimately led to death. Target Value: The value on discharge* | dropdown<br>1 Cardiac<br>2 Neurologic<br>3 Renal<br>4 Vascular<br>5 Infection<br>6 Valvular<br>7 Pulmonary<br>8 Unknown<br>9 Other<br><br>Field Annotation: v2.1 SeqNo 9065 |
| | 436 | dc_acei_any | Section Header: *Medications*<br>ACE Inhibitor (any) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 437 | dc_arb_any | ARB (any) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 438 | dc_asa_any | Aspirin (any) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 439 | dc_betablocker | Beta Blocker (any) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |

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| | 440 | dc_antiarrhyth_any | Antiarrhythmic (any) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 441 | dc_warfarin | Warfarin | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 442 | dc_dabigatran | Dabigatran | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 443 | dc_p2y12_any | P2Y12 (any) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 444 | dc_factor_xa | Factor Xa inhibitor | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 445 | dc_acei_arb | ACE-I or ARB (Any) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 446 | dc_aldo | Aldosterone Antagonists | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 447 | dc_loop_diur | Loop diuretic | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 448 | dc_thiazides | Thiazides | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |

| | # | Variable | Label | Type / Choices |
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| | 449 | dc_diur_other | Diuretics (Other) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 450 | dc_anticoag_any | Anticoagulants (any) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 451 | dc_asa_alone | Aspirin (alone) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 452 | dc_asa_dual | Aspirin (dual antiplatelet therapy) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 453 | meddose_discharge | Loop diuretic Dose (mg) at discharge | text<br>Field Annotation: v2.1 SeqNo 9110 |
| | 454 | discharge_complete | Section Header: *Form Status*<br>Complete? | dropdown<br>0 Incomplete<br>1 Unverified<br>2 Complete |
| Instrument: **Adjudication Event** (adjudication_event) | | | | Collapse |
| | 455 | aj_adjudevent | Adjudication Event<br>*Indicate the event being adjudicated. Target Value: N/A* | dropdown<br>11 Ischemic Stroke (In-hospital)<br>12 Hemorrhagic Stroke (In-hospital)<br>13 Undetermined Stroke (In-hospital)<br>10 TIA (In-hospital)<br>30 Aortic Valve Re-intervention (In-hospital)<br>53 Mitral Valve Re-intervention (In-hospital)<br>110 TIA (F-U)<br>111 Ischemic Stroke (F-U)<br>112 Hemorrhagic Stroke (F-U)<br>113 Undetermined Stroke (F-U)<br>130 Aortic Valve Re-intervention (F-U)<br>153 Mitral Valve Re-intervention (F-U)<br>155 Readmission - Hear Failure (F-U)<br>300 To Be Updated in TVT 1.3<br>Field Annotation: v2.1 SeqNo 12000 |
| | 456 | aj_eventdate_deid | Event Date (Deid)<br>*Indicate the clinical event date that occurred during any procedures or during any follow-ups Target Value: N/A* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 12005 |

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| | 457 | aj_status | Adjudication Status<br>*Indicate whether the patient was alive or deceased on the date the adjudication was performed. Target Value: N/A* | radio<br>1 Alive<br>2 Deceased<br>Field Annotation: v2.1 SeqNo 12010 |
| | 458 | aj_sxonset_deid | Date of Symptom Onset (Deid)<br>*Indicate the date of symptom onset of the neurologic deficit. Target Value: N/A* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 12015 |
| | 459 | aj_neurodef | Neurologic Deficit with Rapid Onset<br>*Indicate if the patient had a sudden onset of a focal or global neurologic deficit (regardless of the duration of symptoms) with at least one of the following present: change in level of consciousness, hemiplegia, hemiparesis, numbness or sensory loss affecting one side of the body, dysphasia or aphasia, hemianopia, amaurosis fugax, other neurological signs or symptoms consistent with a stroke. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 12020 |
| | 460 | aj_neuroclinpresent | Neurologic Deficit Clinical Presentation<br>*Indicate the clinical presentation of the neurologic deficit. Target Value: N/A* | radio<br>1 Stroke/TIA<br>2 Non-Stroke<br>Field Annotation: v2.1 SeqNo 12025 |
| | 461 | aj_neurosxduration | Neurologic Symptom Duration >= 24 hours<br>*Indicate if the duration of the neurologic symptoms lasted >= 24 hours. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 12030 |
| | 462 | aj_neuroimag | Neuroimaging Performed<br>*Indicate if neuroimaging such as CT, MRI, cerebral angiography was performed. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 12040 |
| | 463 | aj_neurodeficittype | Neuroimaging Deficit Type<br>*Indicate the type of deficit found as a result of the neuroimaging study. Target Value: N/A* | radio<br>1 No deficit<br>2 Infarction<br>3 Hemorrhage<br>4 Both<br>5 Subarachnoid Hemorrhage<br>Field Annotation: v2.1 SeqNo 12045 |
| | 464 | aj_neurodiag | Neurologist/Neurosurgeon Confirmation of Diagnosis<br>*Indicate if the diagnosis of stroke was confirmed on formal consultation by a neurologist or neurosurgeon. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 12055 |
| | 465 | aj_socrecimpair | Social/Recreational Activities Impaired<br>*Indicate if the neurologic deficit led to an impairment in the ability to carry out social and or recreational activities (as compared to prior to the event). For example, the patient can no longer play bridge with friends or cannot drive. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 12056 |
| | 466 | aj_neurocogimpair | Neurocognitive Functions Essential to Patient Impaired<br>*Indicate if the neurologic deficit led to an impairment of neurocognitive functions that are essential to the patient and/or their livelihood (as compared to prior to the event). Examples include a pianist who cannot play the piano, accountant who cannot perform mental math, or an individual who now needs help paying bills. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 12057 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 467 | aj_newaidsrequired | New Aids or Assistance Required<br>*Indicate if the patient required new aids or assistance as a result of the new neurologic event. For example, the patient now needs to use a cane, brace or walker or they need assistance with activities of daily living. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 12058 |
| | 468 | aj_neurodeath | Death as a Result of Neurologic Deficit<br>*Indicate if the neurologic event resulted in death of the patient. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 12060 |
| | 469 | aj_commentsstroketia | Stroke TIA Clinical Comments<br>*Provide information and details that may assist in assessing this stroke or TIA outcome. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 12065 |
| | 470 | aj_reinttype | Aortic Valve Re-intervention Type<br>*Indicate the type of aortic valve re-intervention. Target Value: N/A* | radio<br>1 Surgical AV Repair/Replacement<br>2 Balloon Valvuloplasty<br>3 Transcatheter AVR<br>4 Other Transcatheter Intervention<br>Field Annotation: v2.1 SeqNo 12105 |
| | 471 | aj_traninttype | Transcatheter Intervention Type<br>*Indicate the type of 'other' aortic transcatheter intervention. (Such as a procedure that deploys an occluder or plug for aortic regurgitation.) This does not include surgical aortic valve repair/replacements, transcatheter AV replacments or AV balloon valvuloplasties. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 12110 |
| | 472 | aj_primaryind | Section Header: *Aortic Valve Re-intervention*<br>Aortic Valve Re-intervention Primary Indication<br>*Indicate the primary indication for the re-intervention. If more than one indication is present, code the indication the operator feels has the highest significance. Target Value: N/A* | dropdown<br>1 Aortic insufficiency<br>2 Aortic stenosis<br>3 Device migration<br>4 Device fracture<br>5 Endocarditis<br>6 Valve thrombosis<br>7 Other<br>Field Annotation: v2.1 SeqNo 12115 |
| | 473 | aj_aisev | Aortic Valve Re-intervention Aortic Regurgitation Severity<br>*Indicate the highest level of aortic regurgitation prior to the aortic valve re-intervention. Note(s): Mild-to-moderate should be coded as moderate; moderate to severe should be coded as severe. Target Value: N/A* | radio<br>0 None<br>1 Trace/Trivial<br>2 Mild<br>3 Moderate<br>4 Severe<br>Field Annotation: v2.1 SeqNo 12120 |
| | 474 | aj_pvsev | Aortic Valve Re-intervention Aortic Regurgitation Perivalvular Severity<br>*Indicate the highest severity of paravalvular leak prior to the aortic valve re-intervention. Target Value: N/A* | radio<br>0 None<br>2 Mild<br>3 Moderate<br>4 Severe<br>5 Not Documented<br>Field Annotation: v2.1 SeqNo 12125 |

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| | 475 | aj_censev | Aortic Valve Re-intervention Aortic Regurgitation Valvular Severity<br>*Indicate the highest severity of central leak prior to the aortic valve re-intervention. Target Value: N/A* | radio<br>0 None<br>2 Mild<br>3 Moderate<br>4 Severe<br>5 Not Documented<br>Field Annotation: v2.1 SeqNo 12130 |
| | 476 | aj_assev | Aortic Valve Re-intervention Aortic Stenosis Severity<br>*Indicate the highest severity of aortic stenosis prior to the aortic valve re-intervention. Target Value: N/A* | radio<br>1 Possible stenosis<br>2 Significant stenosis<br>Field Annotation: v2.1 SeqNo 12135 |
| | 477 | aj_otherind | Aortic Valve Re-intervention Other Indication<br>*Specify the other indication for the aortic valve re-intervention. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 12140 |
| | 478 | aj_commentsreint | Aortic Valve Re-intervention Clinical Comments<br>*Provide information and details that may assist in assessing this repeat intervention. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 12145 |
| | 479 | aj_mvreinttype | Section Header: *Mitral Valve Re-intervention*<br>Mitral Valve Re-intervention Type<br>*Indicate the type of mitral valve re-intervention. Target Value: N/A Surgical mitral valve repair Surgical mitral valve replacement Transcatheter mitral valve repair Transcatheter mitral valve replacement Leaflet clip procedure Other transcatheter intervention* | dropdown<br>1 Surgical mitral valve repair<br>2 Surgical mitral valve replacement<br>3 Transcatheter mitral valve repair<br>4 Transcatheter mitral valve replacement<br>5 Leaflet clip procedure<br>6 Other transcatheter intervention<br>Field Annotation: v2.1 SeqNo 12200 |
| | 480 | aj_mvothertype | Other Type<br>*Indicate the type of 'other' transcatheter mitral valve intervention. This does not include surgical mitral valve repair/replacements, transcatheter MV replacements or MV balloon valvuloplasties. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 12205 |
| | 481 | aj_mvind | Mitral Valve Re-intervention Indication<br>*Indicate the primary indication for the re-intervention. If more than one indication is present, code the indication the operator feels has the highest significance. Target Value: N/A* | dropdown<br>1 Mitral regurgitation<br>2 Mitral stenosis<br>3 Mitral valve injury<br>4 Device migration<br>5 Device embolization<br>6 Device fracture<br>7 Endocarditis<br>8 Device thrombosis<br>9 Other<br>Field Annotation: v2.1 SeqNo 12210 |
| | 482 | aj_mvotherind | Mitral Valve Re-intervention Other Indication<br>*Specify the other indication for the mitral valve re-intervention. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 12215 |
| | 483 | aj_mvcommentsreint | Mitral Valve Re-intervention Clinical Comments<br>*Provide information and details that may assist in assessing this repeat intervention. Target Value: N/A* | text<br>Field Annotation: v2.1 SeqNo 12220 |
| | 484 | aj_hospitalization | Hospitalization>=24 Hours<br>*Indicate if the heart failure readmission required the patient to be hospitalized with treatment in any inpatient unit or ward in the hospital for at least 24 hours, including emergency department stay. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>3 Information not available<br>Field Annotation: v2.1 SeqNo 12225 |

| | # | Variable | Field Label | Field Attributes |
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| | 485 | aj_sshf | Clinical Signs or Sx of Heart Failure<br>*Indicate if the patient had clinical signs and/or symptoms of heart failure, including new or worsening dyspnea, orthopnea, paroxysmal nocturnal dyspnea, increasing fatigue, worsening functional capacity or activity intolerance, or signs and/or symptoms of volume overload. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>3 Information not available<br>Field Annotation: v2.1 SeqNo 12230 |
| | 486 | aj_hftreatment | IV or Invasive Treatment Required<br>*Indicate if the patient had signs and symptoms that resulted in intravenous (e.g, diuretic or vasoactive therapy) or invasive (e.g., ultrafiltration, IABP, mechanical assistance) treatment for heart failure. Target Value: N/A No Yes Information not available* | dropdown<br>0 No<br>1 Yes<br>3 Information not available<br>Field Annotation: v2.1 SeqNo 12335 |
| | 487 | adjudication_event_complete | Section Header: *Form Status*<br>Complete? | dropdown<br>0 Incomplete<br>1 Unverified<br>2 Complete |
| Instrument: **Follow Up** (follow_up) | | | | Collapse |
| | 488 | f_assessmentdate_deid | Follow-up Assessment Date (Deid)<br>*Indicate the date the follow-up assessment was performed. Target Value: The value on follow-up* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 10000 |
| | 489 | f_assessmentmethod | Follow-up Assessment Method<br>*Indicate the primary method to determine patient status at follow-up. Target Value: Any occurrence on follow-up* | dropdown<br>1 Clinic<br>2 Medical record<br>3 Letter from medical provider<br>4 Phone call to patient/family<br>5 Social Security Death master File<br>6 Other<br>Field Annotation: v2.1 SeqNo 10005 |
| | 490 | f_residence | Follow-up Residence<br>*Indicate the primary residence of the patient during the follow-up period. If the primary residence is not available, code not documented. Target Value: The value on follow-up* | radio<br>1 Home with no health-aid<br>2 Home with health aid<br>3 Long term care<br>4 Other<br>5 Not Documented<br>Field Annotation: v2.1 SeqNo 10008 |
| | 491 | f_status | Follow-up Status<br>*Indicate whether the patient was alive or deceased at the date the follow-up was performed. Target Value: Any occurrence on follow-up* | radio<br>1 Alive<br>2 Deceased<br>3 Lost to follow-up<br>4 Withdrawn<br>Field Annotation: v2.1 SeqNo 10010 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 492 | f_deathcause | Follow-up Primary Cause of Death<br>*Indicate the PRIMARY cause of death (i.e. the first significant event which ultimately led to death).* | dropdown<br>1 Cardiac<br>2 Neurologic<br>3 Renal<br>4 Vascular<br>5 Infection<br>6 Valvular<br>7 Pulmonary<br>8 Unknown<br>9 Other<br><br>Field Annotation: Seq. #: 10015 |
| | 493 | f_hgbnd | Section Header: *Follow-up Labs and Assessments*<br>Follow-up Hemoglobin Not Drawn<br>*Indicate if a hemoglobin level was not drawn during the follow-up period. Target Value: N/A No* | dropdown<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 10086 |
| | 494 | f_hgb | Follow-up Hemoglobin<br>*Indicate the hemoglobin value in g/dL collected at follow-up. A hemoglobin level should be collected on all patients to assess for bleeding events as a result of the procedure. Target Value: The last value on follow-up* | text<br>Field Annotation: v2.1 SeqNo 10085 |
| | 495 | f_crnd | Follow-up Creatinine Not Drawn<br>*Indicate if a creatinine level was not drawn during the follow-up period. Target Value: N/A* | radio<br>0 No<br>1 Yes<br><br>Field Annotation: v2.1 SeqNo 10091 |
| | 496 | f_cr | Follow-up Creatinine<br>*Indicate the creatinine level collected at follow-up, in mg/dL. A creatinine level should be collected on all patients to determine kidney injury as a result of the procedure. Target Value: The last value on follow-up* | text<br>Field Annotation: v2.1 SeqNo 10090 |
| | 497 | f_nyha | Follow-up NYHA Classification<br>*Indicate the patient's functional class, coded as the New York Heart Association (NYHA) classification at follow-up. Target Value: The highest value on follow-up* | dropdown<br>1 Class I<br>2 Class II<br>3 Class III<br>4 Class IV<br><br>Field Annotation: v2.1 SeqNo 10100 |
| | 498 | f_fivemwalktest | Follow-up Five Meter Walk Test Performed<br>*Indicate whether the five meter walk test was performed during the follow-up period. Target Value: Any occurrence on follow-up Not performed* | dropdown<br>0 Not performed<br>1 Yes<br>2 Unable to walk<br><br>Field Annotation: v2.1 SeqNo 10135 |
| | 499 | f_fivemwalk1 | Follow-up Five Meter Walk Test Time 1<br>*Indicate the time in seconds it takes the patient to walk 5 meters for the first of three tests. Target Value: The value on follow-up* | text<br>Field Annotation: v2.1 SeqNo 10140 |
| | 500 | f_fivemwalk2 | Follow-up Five Meter Walk Test Time 2<br>*Indicate the time in seconds it takes the patient to walk 5 meters for the second of three tests. Target Value: The value on follow-up* | text<br>Field Annotation: v2.1 SeqNo 10145 |
| | 501 | f_fivemwalk3 | Follow-up Five Meter Walk Test Time 3<br>*Indicate the time in seconds it takes the patient to walk 5 meters for the third of three tests. Target Value: The value on follow-up* | text<br>Field Annotation: v2.1 SeqNo 10150 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 502 | f_sixminwalkperf | Follow-Up Six Minute Walk Test Performed<br>*Indicate whether the six minute walk test was performed at follow-up. Target Value: Any occurrence on follow-up* | dropdown<br>1 Performed<br>2 Not performed -unable to walk<br>3 Not performed -cardiac reason (SOB)<br>4 Not performed -patient not willing to walk<br>5 Not performed by site<br>Field Annotation: v2.1 SeqNo 10380 |
| | 503 | f_sixminwalkdate_deid | Follow-Up Six Minute Walk Test Date (Deid)<br>*Indicate the date the six minute walk test was performed at follow-up. Target Value: The value on follow-up* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 10385 |
| | 504 | f_sixminwalkdist | Follow-Up Total Distance<br>*Indicate the total distance, in feet, the patient walked at follow-up. Target Value: The value on follow-up* | text<br>Field Annotation: v2.1 SeqNo 10390 |
| | 505 | f_12leadekg | Follow-up 12-Lead ECG Findings<br>*Indicate the 12 lead ECG findings during the follow-up period. Target Value: Any occurrence on follow-up* | radio<br>1 Not performed<br>2 No significant changes<br>3 New changes noted<br>Field Annotation: v2.1 SeqNo 10155 |
| | 506 | f_ekgchange | Follow-up 12-Lead ECG Changes Noted<br>*Indicate the ECG changes noted on the follow-up ECG. Target Value: Any occurrence on follow-up* | radio<br>1 Pathological Q-wave or LBBB<br>2 Arrhythmia<br>3 Both<br>Field Annotation: v2.1 SeqNo 10160 |
| | 507 | f_popttech | Section Header: *Follow-up Echo*<br>Follow-up Echocardiogram<br>*Indicate if an echocardiogram has been performed. Target Value: Any occurrence on follow-up* | radio<br>1 Not Performed<br>2 Yes - TTE<br>3 Yes - TEE<br>Field Annotation: v2.1 SeqNo 10206 |
| | 508 | f_popttechdate_deid | Follow-up Echo Date (Deid)<br>*Indicate the date the echocardiogram was performed. If more than one echocardiogram has been performed since discharge or the last follow-up period, code the date of the most recent echo. Target Value: The last value on follow-up* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 10207 |
| | 509 | f_lvefna | Follow-up LVEF Not Assessed<br>*Indicate whether the left ventricular ejection fraction was not assessed. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 10211 |
| | 510 | f_lvef | Follow-up LVEF<br>*Indicate the left ventricular ejection fraction (LVEF), or the percentage of the blood emptied from the left ventricle at the end of the contraction. Use the most recent echocardiogram documented. Enter a percentage in the range of 1 - 99. If a percentage range is reported, report a whole number using the 'mean' (i.e., 50-55%, is reported as 53%). If only a descriptive value is reported, (i.e., normal), enter the corresponding percentage value from the list below: Normal = 60% Good function = 50% Mildly reduced = 45% Fair function = 40% Moderately reduced = 30% Poor function = 25% Severely reduced = 20% Target Value: The last value on follow-up* | text<br>Field Annotation: v2.1 SeqNo 10210 |
| | 511 | f_post_avmeangradient | Follow-up Aortic Valve Mean Gradient<br>*Indicate the aortic valve mean gradient in mmHg captured on echocardiogram since discharge or the last follow-up period. Target Value: The last value on follow-up* | text<br>Field Annotation: v2.1 SeqNo 10215 |

| | # | Variable | Field Label | Field Attributes |
|---|---|---|---|---|
| | 512 | f_popttar | Follow-up Aortic Regurtitation Severity<br>*Indicate the highest level of aortic regurgitation found on echo since discharge or the last follow-up period. Note(s): Code mild-moderate as mild and moderate-severe as moderate. Target Value: The highest value on follow-up* | radio<br>0 None<br>1 Trace/Trivial<br>2 Mild<br>3 Moderate<br>4 Severe<br><br>Field Annotation: v2.1 SeqNo 10220 |
| | 513 | f_post_aiperiseverity | Follow-up Aortic Regurgitation Paravalvular Severity<br>*Indicate the highest severity of perivalvular leak found on echo since discharge or the last follow-up period. Target Value: The highest value on follow-up* | radio<br>0 None<br>2 Mild<br>3 Moderate<br>4 Severe<br>5 Not Documented<br><br>Field Annotation: v2.1 SeqNo 10225 |
| | 514 | f_post_aicentralseverity | Follow-up Aortic Regurgitation Central Severity<br>*Indicate the highest severity of central leak found on echo since discharge or the last follow-up period. Target Value: The highest value on follow-up* | radio<br>0 None<br>2 Mild<br>3 Moderate<br>4 Severe<br>5 Not Documented<br><br>Field Annotation: v2.1 SeqNo 10227 |
| | 515 | f_post_mr | Follow-up Mitral Regurgitation<br>*Indicate the level of mitral regurgitation found on echocardiogram in the last follow-up period. Note(s): Code mild-moderate as mild. Target Value: The highest value on follow-up* | radio<br>0 None<br>1 Trace/Trivial<br>2 1+/Mild<br>3 2+/Moderate<br>5 3+/Moderate-Severe<br>6 4+/Severe<br>4 Severe (retired)<br><br>Field Annotation: v2.1 SeqNo 10300 |
| | 516 | f_post_mrpara | Follow-up Paravalvular Severity<br>*Indicate the highest severity of paravalvular mitral regurgitation. Target Value: The highest value on follow-up* | radio<br>0 None<br>1 Mild<br>2 Moderate<br>3 Severe<br>4 Not Documented<br><br>Field Annotation: v2.1 SeqNo 10305 |
| | 517 | f_post_mrvalv | Follow-up Valvular Severity<br>*Indicate the highest severity of valvular mitral regurgitation. Target Value: The highest value on follow-up* | radio<br>0 None<br>1 Mild<br>2 Moderate<br>3 Severe<br>4 Not Documented<br><br>Field Annotation: v2.1 SeqNo 10310 |
| | 518 | f_post_mveoa | Follow-up Effective Orifice Area (EOA)<br>*Indicate the effective orifice area (EOA), in cm2. Target Value: The highest value on follow-up* | text<br>Field Annotation: v2.1 SeqNo 10315 |

| | # | Variable | Field Label | Field Attributes |
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| | 519 | f_post_mveoamethod | Follow-up Effective Orifice Area Method of Assessment<br>*Indicate the method used to measure the effective orifice area. Target Value: The highest value on follow-up* | radio<br>1 3D planimetry<br>2 PISA<br>3 Quantitative doppler<br>4 Other<br>Field Annotation: v2.1 SeqNo 10320 |
| | 520 | f_post_mvarea | Follow-up Mitral Valve Area<br>*Indicate the smallest mitral valve area in cm2. Target Value: The value on follow-up* | text<br>Field Annotation: v2.1 SeqNo 10325 |
| | 521 | f_post_mvmeangrad | Follow-up Mean Mitral Gradient<br>*Indicate the mean gradient (in mm Hg) across the mitral valve. Target Value: The value on follow-up* | text<br>Field Annotation: v2.1 SeqNo 10330 |
| | 522 | f_post_lavol | Follow-up Left Atrial Volume<br>*Indicate the left atrial volume in ml, documented by echocardiogram. If the left atrial volume index is documented, leave this field blank. Target Value: The value on follow-up* | text<br>Field Annotation: v2.1 SeqNo 10335 |
| | 523 | f_post_lavolindex | Follow-up Left Atrial Volume Index<br>*Indicate the left atrial volume index in mL/m2, documented by echocardiogram. If the left atrial volume is documented, leave this field blank. Target Value: The value on follow-up* | text<br>Field Annotation: v2.1 SeqNo 10340 |
| | 524 | f_post_lvisdnm | Follow-up Left Ventricular Internal Systolic Dimension Not Measured<br>*Indicate if the left ventricular internal systolic dimension in cm was not measured at follow-up. Target Value: N/A No Yes* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 10346 |
| | 525 | f_post_lvisd | Follow-up Left Ventricular Internal Systolic Dimension<br>*Indicate the left ventricular internal systolic dimension in cm. Target Value: The value on follow-up* | text<br>Field Annotation: v2.1 SeqNo 10345 |
| | 526 | f_post_lviddnm | Follow-up Left Ventricular Internal Diastolic Dimension Not Measured<br>*Indicate if the left ventricular internal diastolic dimension in cm was not measured at follow-up. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 10351 |
| | 527 | f_post_lvidd | Follow-up Left Ventricular Internal Diastolic Dimension<br>*Indicate the left ventricular internal diastolic dimension in cm at follow-up. If more than one LV internal diastolic diameter is available, code the value determined by echocardiography. Target Value: The value on follow-up* | text<br>Field Annotation: v2.1 SeqNo 10350 |
| | 528 | f_post_lvesvnm | Follow-up Left Ventricular End Systolic Volume Not Measured<br>*Indicate if the left ventricular end systolic volume in ml was not measured at follow-up. Target Value: N/A No Yes* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 10356 |
| | 529 | f_post_lvesv | Follow-up Left Ventricular End Systolic Volume<br>*Indicate the left ventricular end systolic volume in ml, documented by echocardiogram at follow-up. Target Value: The value on follow-up* | text<br>Field Annotation: v2.1 SeqNo 10355 |
| | 530 | f_post_lvedvnm | Follow-up Left Ventricular End Diastolic Volume Not Measured<br>*Indicate the left ventricular end diastolic volume in ml, documented by echocardiogram was not measured at follow-up. Target Value: N/A* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 10361 |
| | 531 | f_post_lvedv | Follow-up Left Ventricular End Diastolic Volume<br>*Indicate the left ventricular end diastolic volume in ml, documented by echocardiogram at follow-up. Target Value: The value on follow-up* | text<br>Field Annotation: v2.1 SeqNo 10360 |

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| | 532 | f_post_tr | Follow-up Tricuspid Regurgitation<br>*Indicate whether there is evidence of tricuspid valve regurgitation. Enter level of valve function associated with highest risk (i.e., worst performance). Target Value: The value on follow-up* | radio<br>0 None<br>1 Trace/Trivial<br>2 Mild<br>3 Moderate<br>4 Severe<br>Field Annotation: v2.1 SeqNo 10365 |
| | 533 | f_post_lvot | Left Ventricular Outflow Tract Gradient (Peak)<br>*Indicate the peak gradient of the left ventricular outflow tract at follow-up. Target Value: The value on follow-up* | text<br>Field Annotation: v2.1 SeqNo 10370 |
| | 534 | f_post_sam | Systolic Anterior Motion Present<br>*Indicate if systolic anterior motion was present at follow-up. Target Value: The value on follow-up* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 10375 |
| | 535 | f_kccq12_performed | Section Header: *KCCQ*<br>Follow-Up KCCQ-12 Patient Questionnaire Performed<br>*Indicate if the follow-up Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed. Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 10243, Follow-Up KCCQ-12 Overall Summary Score. Target Value: Any occurrence on follow-up* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 10230 |
| | 536 | f_kccq12_1a | Follow-Up KCCQ-12 Question 1a<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 1a. Heart Failure Limitation - Showering/bathing Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 10243, Follow-Up KCCQ-12 Overall Summary Score. Target Value: The value on follow-up* | dropdown<br>1 Extremely limited<br>2 Quite a bit limited<br>3 Moderately limited<br>4 Slightly limited<br>5 Not at all limited<br>6 Limited for other reasons or did not do the activity<br>Field Annotation: v2.1 SeqNo 10231 |
| | 537 | f_kccq12_1b | Follow-Up KCCQ-12 Question 1b<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 1b. Heart Failure Limitation - Walking 1 block on level ground Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 10243, Follow-Up KCCQ-12 Overall Summary Score. Target Value: The value on follow-up* | dropdown<br>1 Extremely limited<br>2 Quite a bit limited<br>3 Moderately limited<br>4 Slightly limited<br>5 Not at all limited<br>6 Limited for other reasons or did not do the activity<br>Field Annotation: v2.1 SeqNo 10232 |
| | 538 | f_kccq12_1c | Follow-Up KCCQ-12 Question 1c<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 1c. Heart Failure Limitation - Hurrying or jogging Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 10243, Follow-Up KCCQ-12 Overall Summary Score. Target Value: The value on follow-up Extremely limited Quite a bit limited Moderately limited Slightly limited Not at all limited Limited for other reasons or did not do the activity* | dropdown<br>1 Extremely limited<br>2 Quite a bit limited<br>3 Moderately limited<br>4 Slightly limited<br>5 Not at all limited<br>6 Limited for other reasons or did not do the activity<br>Field Annotation: v2.1 SeqNo 10233 |

| | # | Variable | Field Label | Field Attributes |
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| | 539 | f_kccq12_2 | Follow-Up KCCQ-12 Question 2<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 2. Symptom Frequency - Swelling in legs Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 10243, Follow-Up KCCQ-12 Overall Summary Score. Target Value: The value on follow-up* | dropdown<br>1 Every morning<br>2 3 or more times per week but not every day<br>3 1-2 times per week<br>4 Less than once a week<br>5 Never over the past 2 weeks<br><br>Field Annotation: v2.1 SeqNo 10234 |
| | 540 | f_kccq12_3 | Follow-Up KCCQ-12 Question 3<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 3. Symptom Frequency - Fatigue Target Value: The value on follow-up* | dropdown<br>1 All of the time<br>2 Several times per day<br>3 At least once a day<br>4 3 or more times per week but not every day<br>5 1-2 times per week<br>6 Less than once a week<br>7 Never over the past 2 weeks<br><br>Field Annotation: v2.1 SeqNo 10235 |
| | 541 | f_kccq12_4 | Follow-Up KCCQ-12 Question 4<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 4. Symptom Frequency - shortness of breath Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 10243, Follow-Up KCCQ-12 Overall Summary Score. Target Value: The value on follow-up* | dropdown<br>1 All of the time<br>2 Several times per day<br>3 At least once a day<br>4 3 or more times per week but not every day<br>5 1-2 times per week<br>6 Less than once a week<br>7 Never over the past 2 weeks<br><br>Field Annotation: v2.1 SeqNo 10236 |
| | 542 | f_kccq12_5 | Follow-Up KCCQ-12 Question 5<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 5. Symptom Frequency - sleep sitting up due to shortness of breath Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 10243, Follow-Up KCCQ-12 Overall Summary Score. Target Value: The value on follow-up Every night 3 or more times per week but not every day 1-2 times per week Less than once a week Never over the past 2 weeks* | dropdown<br>1 Every night<br>2 3 or more times per week but not every day<br>3 1-2 times per week<br>4 Less than once a week<br>5 Never over the past 2 weeks<br><br>Field Annotation: v2.1 SeqNo 10237 |
| | 543 | f_kccq12_6 | Follow-Up KCCQ-12 Question 6<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 6. Quality of Life - effect on enjoyment of life due to heart failure Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 10243, Follow-Up KCCQ-12 Overall Summary Score. Target Value: The value on follow-up* | dropdown<br>1 It has extremely limited my enjoyment of life<br>2 It has limited my enjoyment of life quite a bit<br>3 It has moderately limited my enjoyment of life<br>4 It has slightly limited my enjoyment of life<br>5 It has not limited my enjoyment of life at all<br><br>Field Annotation: v2.1 SeqNo 10238 |
| | 544 | f_kccq12_7 | Follow-Up KCCQ-12 Question 7<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 7. Quality of life - remaining life with heart failure Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 10243, Follow-Up KCCQ-12 Overall Summary Score. Target Value: The value on follow-up* | radio<br>1 Not at all satisfied<br>2 Mostly dissatisfied<br>3 Somewhat satisfied<br>4 Mostly satisfied<br>5 Completely satisfied<br><br>Field Annotation: v2.1 SeqNo 10239 |

| | # | Variable | Field Label | Field Attributes |
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| | 545 | f_kccq12_8a | Follow-Up KCCQ-12 Question 8a<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 8a. Social limitation - hobbies, recreational activities Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 10243, Follow-Up KCCQ-12 Overall Summary Score. Target Value: The value on follow-up* | dropdown<br>1 Severely limited<br>2 Limited quite a bit<br>3 Moderately limited<br>4 Slightly limited<br>5 Did not limit at all<br>6 Does not apply or did not do for other reasons<br>Field Annotation: v2.1 SeqNo 10240 |
| | 546 | f_kccq12_8b | Follow-Up KCCQ-12 Question 8b<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 8b. Social limitation - working or doing household chores Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 10243, Follow-Up KCCQ-12 Overall Summary Score. Target Value: The value on follow-up Severely limited Limited quite a bit Moderately limited Slightly limited Did not limit at all Does not apply or did not do for other reasons* | dropdown<br>1 Severely limited<br>2 Limited quite a bit<br>3 Moderately limited<br>4 Slightly limited<br>5 Did not limit at all<br>6 Does not apply or did not do for other reasons<br>Field Annotation: v2.1 SeqNo 10241 |
| | 547 | f_kccq12_8c | Follow-Up KCCQ-12 Question 8c<br>*Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 8c. Social limitation - visiting family or friends Note(s): Please refer to the separate KCCQ-12 questionnaire for patient instructions. For additional information on scoring, please refer to Seq Num 10243, Follow-Up KCCQ-12 Overall Summary Score. Target Value: The value on follow-up* | dropdown<br>1 Severely limited<br>2 Limited quite a bit<br>3 Moderately limited<br>4 Slightly limited<br>5 Did not limit at all<br>6 Does not apply or did not do for other reasons<br>Field Annotation: v2.1 SeqNo 10242 |
| | 548 | f_kccq12_overall | Follow-Up KCCQ Overall Summary Score<br>*(Auto Calculated) This field is auto-populated by your application. Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Overall Summary Score. Note(s): The 12 patient responses are reduced into four summary scores (Physical Limitation Score, Symptom Frequency Score, Quality of Life Score, Social Limitation Score). The four summary scores are used to calculate the Overall Summary Score. For more information, please refer to the KCCQ-12 Scoring Instructions document provided by the STS/ACC TVT Registry. Target Value: The value on follow-up* | text<br>Field Annotation: v2.1 SeqNo 10243 |
| | 549 | f_acei_any | Section Header: *Medications*<br>ACE Inhibitor (any) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 550 | f_arb_any | ARB (any) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 551 | f_asa_any | Aspirin (any) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |

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| | 552 | f_betablock | Beta Blocker (any) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 553 | f_antiarrhyth | Antiarrhythmic (any) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 554 | f_warfarin | Warfarin | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 555 | f_dabigatran | Dabigatran | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 556 | f_p2y12_any | P2Y12 (any) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 557 | f_factor_xa | Factor Xa inhibitor | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 558 | f_acei_arb | ACE-I or ARB (Any) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 559 | f_aldo | Aldosterone Antagonists | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 560 | f_loop_diur | Loop diuretic | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |

| | # | Variable | Field Label | Field Attributes |
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| | 561 | f_thiazides | Thiazides | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 562 | f_diur_other | Diuretics (Other) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 563 | f_anticoag_any | Anticoagulants (any) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 564 | f_asa_alone | Aspirin (alone) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 565 | f_asa_dual | Aspirin (dual antiplatelet therapy) | radio<br>0 No<br>1 Yes<br>2 Contraindicated<br>3 Blinded |
| | 566 | f_meddose_discharge | Loop diuretic Dose (mg) at discharge | text<br>Field Annotation: v2.1 SeqNo 9110 |
| | 567 | follow_up_complete | Section Header: *Form Status*<br>Complete? | dropdown<br>0 Incomplete<br>1 Unverified<br>2 Complete |
| Instrument: **Follow Up Event** (follow_up_event) | | | | Collapse |
| | 568 | f_eventoccurred | Section Header: *Follow-up Event*<br>Follow-Up Event Occurred<br>*Indicate if any adverse event, intervention, or surgical procedures occurred between discharge and follow-up, or between follow-up assessment periods. Target Value: Any occurrence on follow-up* | radio<br>0 No<br>1 Yes<br>Field Annotation: v2.1 SeqNo 10245 |
| | 569 | f_eventdate_deid | Follow-Up Event Date (Deid)<br>*Indicate the date of any adverse events, interventions, or surgical procedures that occurred between discharge and 30-day follow- up, or between follow-up assessment periods. Note(s): If an event occurred more than once, specify each Follow-Up Event ID (10246) with its corresponding date. If month or day are unknown, enter 01 Target Value: The value on follow-up* | text (date_mdy)<br>Field Annotation: v2.1 SeqNo 10247 |
| | 570 | f_eventid | Follow-Up Event ID<br>*Indicate all adverse events, interventions or surgical procedures that occurred between discharge and 30-day follow-up, or between follow-up assessment periods. Note(s): If an event occurred more than once, specify each event with its corresponding Follow-Up Event Date (Seq Number 10247). Target Value: The value on follow-up* | text<br>Field Annotation: v2.1 SeqNo 10246 |
| | 571 | f_eventname | Follow-Up Event Name | text<br>Field Annotation: v2.1 SeqNo 10247 |

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| | 572 | follow_up_event_complete | Section Header: *Form Status*<br>Complete? | dropdown<br>0 Incomplete<br>1 Unverified<br>2 Complete |