

A. Demographics

Seq. #: 2000 Name: Last Name

Coding Instructions: Indicate the patient's last name. Hyphenated names should be recorded with a hyphen.

Target Value: The value on arrival at this facility

Selections: (none)

Supporting Definitions: (none)

Seq. #: 2010 Name: First Name

Coding Instructions: Indicate the patient's first name.

Target Value: The value on arrival at this facility

Selections: (none)

Supporting Definitions: (none)

Seq. #: 2020 Name: Middle Name

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 2030 Name: SSN

Coding Instructions: Indicate the patient's United States Social Security Number (SSN).

Note(s):

If the patient does not have a US Social Security Number (SSN), leave blank and check "SSN N/A".

Target Value: The value on arrival at this facility

Selections: (none)



A. Demographics

Seq. #: 2031 Name: SSN N/A

Coding Instructions: Indicate if the patient does not have a United States Social Security Number (SSN).

Target Value: The value on arrival at this facility

Selections: Selection Text Definition

No

Yes Patient does 'not' have a SSN.

Supporting Definitions: (none)

Seq. #: 2040 Name: Patient ID

Coding Instructions: Indicate the number created and automatically inserted by the software that uniquely identifies this patient.

Target Value: The value on arrival at this facility

Selections: (none)

Supporting Definitions: (none)

Seq. #: 2045 Name: Other ID

Coding Instructions: Indicate optional patient identifier, such as medical record number, that can be associated with the patient.

Target Value: N/A

Selections: (none)

Supporting Definitions: (none)

Seq. #: 2050 Name: Birth Date

Coding Instructions: Indicate the patient's date of birth.

Target Value: The value on arrival at this facility

Selections: (none)



A. Demographics

Seq. #: 2060 Name: Sex

Coding Instructions: Indicate the patient's sex at birth.

Target Value: The value on arrival at this facility

Selections: Selection Text Definition

Male

Female

Supporting Definitions: (none)

Seq. #: 2070 Name: Race - White

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes

Supporting Definitions: White (race):

Having origins in any of the original peoples of Europe, the Middle East, or North Africa.

Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity

Seg. #: 2071 Name: Race - Black or African American

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes

Supporting Definitions: Black/African American (race):

Having origins in any of the black racial groups of Africa. Terms such as "Haitian" or "Negro" can be used in addition to "Black or

African American."

Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity



A. Demographics

Seq. #: 2072 Name: Race - Asian

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes

Supporting Definitions: Asian (race):

Having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent including, for example,

Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam.

Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity

Seq. #: 2073 Name: Race - American Indian or Alaskan Native

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes

Supporting Definitions: American Indian or Alaskan Native (race):

Having origins in any of the original peoples of North and South America (including Central America), and who maintains tribal

affiliation or community attachment.

Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity

Seq. #: 2074 Name: Race - Native Hawaiian or Pacific Islander

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes

Supporting Definitions: Native Hawaiian or Pacific Islander (race):

 $Having\ origins\ in\ any\ of\ the\ original\ peoples\ of\ Hawaii,\ Guam,\ Samoa,\ or\ other\ Pacific\ Islands.$

Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity



A. Demographics

Seq. #: 2076 Name: Hispanic or Latino Ethnicity

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes

Supporting Definitions: Hispanic or Latino Ethnicity:

A person of Cuban, Mexican, Puerto Rican, Cuban, South or Central American, or other Spanish culture or origin, regardless of

race. The term, "Spanish origin," can be used in addition to "Hispanic or Latino.'

Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity

Seq. #: 2500 Name: Auxiliary 1

Coding Instructions: Reserved for future use.

Target Value: N/A

Selections: (none)

Supporting Definitions: (none)

Seq. #: 2501 Name: Auxiliary 2

Coding Instructions: Reserved for future use.

Target Value: N/A

Selections: (none)



B. Episode of Care

Seq. #: 3000 Name: Arrival Date

Coding Instructions: Indicate the date the patient arrived at your facility.

Target Value: N/A

Selections: (none)

Supporting Definitions: (none)

Seq. #: 3001 Name: Arrival Time

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 3003 Name: Residence on Arrival

Coding Instructions: 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

Selections: Selection Text Definition

Home with no health-

aid

Home with health aid

Long term care

Other

Not Documented



B. Episode of Care

Seq. #: 3005 Name: Insurance Payors - Private Health Insurance

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes

Supporting Definitions: Private Health Insurance:

Private health insurance is coverage by a health plan provided through an employer or union or purchased by an individual from a

private health insurance company.

Source: U.S. Census Bureau

Seq. #: 3006 Name: Insurance Payors - Medicare

Coding Instructions: Indicate if the patient's insurance payor(s) included Medicare.

Target Value: The value on arrival at this facility

Selections: Selection Text Definition

No

Yes

Supporting Definitions: Medicare:

Medicare is the Federal program which helps pay health care costs for people 65 and older and for certain people under 65 with

long-term disabilities.

Source: U.S. Census Bureau

Seq. #: 3007 Name: Insurance Payors - Medicaid

Coding Instructions: Indicate if the patient's insurance payor(s) included Medicaid.

Target Value: The value on arrival at this facility

Selections: Selection Text Definition

No

Yes

Supporting Definitions: Medicaid:

Medicaid is a program administered at the state level, which provides medical assistance to the needy. Families with dependent children, the aged, blind, and disabled who are in financial need are eligible for Medicaid. It may be known by different names.

Source: U.S. Census Bureau



B. Episode of Care

Seq. #: 3008 Name: Insurance Payors - Military Health Care

Coding Instructions: Indicate if the patient's insurance payor(s) included Military Health Care.

Target Value: The value on arrival at this facility

Selections: Selection Text Definition

No

Yes

Supporting Definitions: Military Health Care:

Military Health care - Military health care includes TRICARE/CHAMPUS (Civilian Health and Medical Program of the Uniformed Services) and CHAMPVA (Civilian Health and Medical Program of the Department of Veterans Affairs), as well as care provided

by the Department of Veterans Affairs (VA).

Source: U.S. Census Bureau

Seq. #: 3009 Name: Insurance Payors - State-Specific Plan (Non Medicaid)

Coding Instructions: Indicate if the patient's insurance payor(s) included State-Specific Plan (non Medicaid).

Target Value: The value on arrival at this facility

Selections: Selection Text Definition

No

Yes

Supporting Definitions: State Specific Plan:

Some states have their own health insurance programs for low-income uninsured individuals. These health plans may be known

by different names in different states.

Source: U.S. Census Bureau

Seq. #: 3010 Name: Insurance Payors - Indian Health Service

Coding Instructions: Indicate if the patient's insurance payor(s) included Indian Health Service (IHS).

Target Value: The value on arrival at this facility

Selections: Selection Text Definition

No

Yes

Supporting Definitions: Indian Health Service:

Indian Health Service (IHS) is a health care program through which the Department of Health and Human Services provides medical assistance to eligible American Indians at IHS facilities. In addition, the IHS helps pay the cost of selected health care

services provided at non-IHS facilities.

Source: U.S. Census Bureau



B. Episode of Care

Seq. #: 3011 Name: Insurance Payors - Non-US Insurance

Coding Instructions: Indicate if the patient's insurance payor(s) included Non-US Insurance.

Target Value: The value on arrival at this facility

Selections: Selection Text Definition

No

Yes

Supporting Definitions: Non-US Insurance:

Non-US insurance refers to individuals with a payor that does not originate in the United States.

Source: U.S. Census Bureau

Seq. #: 3012 Name: Insurance Payors - None

Coding Instructions: Indicate if the patient has no insurance payor(s).

Target Value: The value on arrival at this facility

Selections: Selection Text Definition

No

Yes The patient has no insurance.

Supporting Definitions: None:

'None' refers to individuals with no or limited health insurance. Thus, the individual is the payor regardless of ability to pay.

Source: NCDR

Seq. #: 3015 Name: Health Insurance Claim Number

Coding Instructions: Indicate the patient's Health Insurance Claim (HIC) number.

Target Value: The value on arrival at this facility

Selections: (none)

Supporting Definitions: Health Insurance Claim Number::

The Health Insurance Claim (HIC) number is the unique identifier issued to all Medicare eligible beneficiaries by the Social Security Administration (SSA). The Railroad Retirement Board (RRB) can also assign HIC to those receiving RRB benefits.

Source: Center for Medicare and Medicaid Services

Seq. #: 3020 Name: Auxiliary 3

Coding Instructions: Reserved for future use.

Target Value: N/A

Selections: (none)



B. Episode of Care

Seq. #: 3025 Name: Auxiliary 4

Coding Instructions: Reserved for future use.

Target Value: N/A

Selections: (none)

Supporting Definitions: (none)

Seq. #: 3030 Name: Patient Enrolled in Research Study

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 3031 Name: Research Study Name

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 3032 Name: Research Study Patient ID

Coding Instructions: Indicate the research study patient identification number as assigned by the research protocol or STS/ACC TVT Registry staff.

Target Value: N/A

Selections: (none)



C. History & Risk Factors

Seq. #: 4000 Name: Infective Endocarditis

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 4005 Name: Infective Endocarditis Type

Coding Instructions: Indicate the type of endocarditis.

Target Value: The last value between birth and the procedure

Selections: Selection Text Definition

Treated The patient has been treated previously for endocarditis and is not taking antibiotics for the infection (other than prophylactic medications).

Active The patient is currently being treated for endocarditis.

Supporting Definitions: (none)

Seq. #: 4006 Name: Heart Failure Hospitalization Within Past Year

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes

Not Documented



C. History & Risk Factors

Seq. # : 4010 Name :	Permanent Pacemaker	
Coding Instructions:	Coding Instructions: 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	
Selections:	Selection Text Definition	
	No	
	Yes	
Supporting Definitions:		
Seq. # : 4012 Name :	Most Recent Pacemaker Date	
Coding Instructions:	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	
Selections:	(none)	
Supporting Definitions:	(none)	
Seq. #: 4013 Name:	Cardiac Resynchronization Therapy	
Coding Instructions:	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	
Selections:	Selection Text Definition	
	No.	
	No Yes	
Supporting Definitions:		
- Capporting Deminions.	(note)	
Seq. # : 4015 Name :	Previous ICD	
Coding Instructions:	ons: 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	
Selections:	Selection Text Definition	
	No	
	Yes	
Supporting Definitions:		
3		



C. History & Risk Factors

Name: Cardiac Resynchronization Therapy Defibrillator **Seq.** #: 4016 Coding Instructions: 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 Selections: Selection Text Definition No Yes Supporting Definitions: (none) Seq. #: 4020 Name: Prior PCI Coding Instructions: Indicate if the patient had a previous percutaneous coronary intervention. Target Value: Any occurrence between birth and the procedure Selections: Selection Text Definition No Yes **Supporting Definitions: Percutaneous Coronary Intervention:** Percutaneous coronary intervention (PCI) is the placement of an angioplasty guide wire, balloon, or other device (e.g. stent, atherectomy, brachytherapy, or thrombectomy catheter) into a native coronary artery or coronary artery bypass graft for the purpose of mechanical coronary revascularization. Source: NCDR Name: Most Recent PCI Date **Seq.** #: 4025 Coding Instructions: 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 Selections: (none) Supporting Definitions: (none) Seq. #: 4030 Name: Prior CABG Coding Instructions: Indicate if the patient had a previous coronary artery bypass graft (CABG) surgery. Target Value: Any occurrence between birth and the procedure Selections: Selection Text Definition No Yes Supporting Definitions: (none)



C. History & Risk Factors

Seq. #: 4035 Name: Most Recent CABG Date

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 4040 Name: Prior Other Cardiac Surgery

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes



C. History & Risk Factors

Seq. # : 4055 Name :	Number of Previous Cardiac Surgeries			
Coding Instructions:	Coding Instructions: 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:	Value: The total between birth and the procedure			
Selections:	Selection Text Definition			
•	0			
	1			
	2			
	3			
	>=4			
Supporting Definitions:	(none)			
Seq. #: 4060 Name: Prior Aortic Valve Procedure				
Coding Instructions:	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			
Selections:	Selection Text Definition			
	No			
	Yes			
Supporting Definitions:	(none)			
Seq. #: 4065 Name:	Most Recent Aortic Valve Procedure Date			
Coding Instructions:	Indicate the date of the most recent prior aortic valve procedure. Note(s):			

Selections: (none)

Supporting Definitions: (none)

If month or day are unknown, enter 01.

Target Value: The last value between birth and the procedure



C. History & Risk Factors

Name: Previous Aortic Valve Replacement - Surgical **Seq. #:** 4070 Coding Instructions: Indicate whether a previous procedure included a surgical aortic valve replacement. Target Value: Any occurrence between birth and the procedure Selections: Selection Text Definition No Yes Supporting Definitions: (none) Seq. #: 4075 Name: Previous Aortic Valve Procedure Type Coding Instructions: Indicate the type of aortic valve replacement. Target Value: The last value between birth and the procedure Selections: Selection Text Definition Bioprosthetic stented Bioprosthetic stentless Not Documented Supporting Definitions: (none) Seq. #: 4078 Name: Aortic Valve Model ID Coding Instructions: Indicate the model ID of the prosthetic aortic valve. Target Value: The last value between birth and the procedure Selections: (none) Supporting Definitions: (none) Name: Previous Aortic Valve Repair - Surgical **Seq. #:** 4080 Coding Instructions: Indicate whether a previous procedure included a surgical aortic valve repair. Target Value: Any occurrence between birth and the procedure Selections: Selection Text Definition

No



C. History & Risk Factors

Seq. # : 4085 Name :	Previous Procedure - Aortic Valve Balloon Valvuloplasty		
Coding Instructions:	Indicate whether a previous procedure included an aortic balloon valvuloplasty.		
Target Value:	Any occurrence between birth and the procedure		
Selections:	Selection Text Definition		
	No		
	Yes		
Supporting Definitions:	(none)		
Seq. #: 4090 Name:	Previous Procedure - Aortic Valve Transcatheter Valve Replacement		
Coding Instructions:	Indicate whether a previous procedure included a transcatheter aortic valve replacement procedure.		
Target Value:	e: Any occurrence between birth and the procedure		
Selections:	Selection Text Definition		
	No		
	Yes		
Supporting Definitions:	(none)		
Seq. #: 4091 Name:	Previous Procedure - Aortic Valve Transcatheter Valve Intervention		
Coding Instructions:	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 replacements or AV balloon valvuloplasties.		
Target Value:	Any occurrence between birth and the procedure		
Selections:	Selection Text Definition		
	No		
	Yes		
Supporting Definitions:	(none)		
Seq. # : 4092 Name :	Previous Procedure - AV Transcatheter Valve Model ID		
Coding Instructions:	Indicate the model ID implanted in the transcatheter aortic valve replacement procedure.		
Target Value:	Any occurrence between birth and the procedure		

Selections: (none)



C. History & Risk Factors

Seq. #: 4095 Name: Prior Non-Aortic Valve Procedure

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 4097 Name: Prior Mitral Valve Procedure Date

Coding Instructions: Indicate the date of the most recent prior mitral valve procedure, if performed.

Target Value: Any occurrence between birth and the procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 4100 Name: Previous Procedure - Mitral Valve Replacement - Surgical

Coding Instructions: Indicate whether a previous procedure included a surgical mitral valve replacement.

Target Value: Any occurrence between birth and the procedure

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 4105 Name: Prior Non-Aortic Valve Procedure - Mitral Valve Type

Coding Instructions: Indicate the type of mitral valve replacement.

Target Value: The last value between birth and the procedure

Selections: Selection Text Definition

Mechanical

Bioprosthetic Retired in v2.0

Bioprosthetic stented

Bioprosthetic stentless

Not Documented



C. History & Risk Factors

Seq. #: 4106 Name: Previous Procedure - Mitral Valve Replacement Model ID

Coding Instructions: Indicate the model ID of the prosthetic mitral valve.

Target Value: The last value between birth and the procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 4110 Name: Previous Procedure - Mitral Valve Repair - Surgical

Coding Instructions: Indicate whether a previous procedure included a surgical mitral valve repair.

Target Value: Any occurrence between birth and the procedure

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 4111 Name: Prior Mitral Annuloplasty Ring - Surgical

Coding Instructions: Indicate if the patient had a prior mitral annuloplasty ring implanted surgically.

Target Value: Any occurrence between birth and the procedure

Selections: Selection Text Definition

No

Yes - partial

Yes - circumferential

Not documented

Supporting Definitions: (none)

Seq. #: 4112 Name: Prior Mitral Valve Transcatheter Intervention

Coding Instructions: Indicate whether a previous procedure included a transcatheter mitral valve intervention.

Target Value: Any occurrence between birth and the procedure

Selections: Selection Text Definition

No

Yes



C. History & Risk Factors

Seq. #: 4113 Name: Prior Mitral Transcatheter Type

Coding Instructions: Indicate the type of transcatheter mitral valve intervention.

Target Value: Any occurrence between birth and the procedure

Selections: Selection Text Definition

Leaflet clip

Direct annulopasty intervention

Coronary sinus based

intervention

Valve-in-native valve

Valve-in-valve

Other

Supporting Definitions: (none)

Seq. #: 4116 Name: Valve or Ring Model

Coding Instructions: Indicate the model ID of the prosthetic mitral valve.

Target Value: The value between birth and the procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 4118 Name: Prior Tricuspid Valve Replacement/Repair

Coding Instructions: Indicate if the patient had a prior tricuspid valve replacement or repair.

Target Value: Any occurrence between birth and the procedure

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 4119 Name: Prior Pulmonic Valve Replacement/Repair

Coding Instructions: Indicate if the patient had a prior pulmonic valve replacement or repair.

Target Value: Any occurrence between birth and the procedure

Selections: Selection Text Definition

No

Yes



C. History & Risk Factors

Seq. #: 4120 Name: Prior Stroke

Coding Instructions: Indicate if the patient has a history of a stroke.

Target Value: Any occurrence between birth and the procedure

Selections: Selection Text Definition

No

Yes

Supporting Definitions: Stroke:

A stroke is an acute episode of focal or global neurological dysfunction caused by brain, spinal cord, or retinal vascular injury as a

result of hemorrhage or infarction.

Source: Standardized Definitions for Cardiovascular Endpoints in Clinical Trials (FDA Draft)

Seq. #: 4125 Name: Most Recent Stroke Date

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seg. #: 4130 Name: Transient Ischemic Attack

Coding Instructions: Indicate if the patient has a history of a transient ischemic attack.

Target Value: Any occurrence between birth and the procedure

Selections: Selection Text Definition

No

Yes

Supporting Definitions: Transient Ischemic Attack:

Transient ischemic attack (TIA) is defined as a transient episode of focal neurological dysfunction caused by brain, spinal cord, or retiral inchemia, without acute inferretion

retinal ischemia, without acute infarction.

Source: Standardized Definitions for Cardiovascular Endpoints in Clinical Trials (FDA Draft)



C. History & Risk Factors

Seq. #: 4135 Name: Carotid Stenosis Assessment

Coding Instructions: 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

 Selections:
 Selection Text
 Definition

 None
 Neither carotid artery is >=50% stenotic.

 Right
 There is >=50% stenosis in the right carotid artery.

 Left
 There is >=50% stenosis in the left carotid artery.

 Both
 There is >=50% stenosis in both the right and left carotid artery.

 Not assessed
 Carotid stenosis was not assessed and is not known.

Supporting Definitions: (none)

Seq. #: 4140 Name: Prior Carotid Artery Surgery or Stent

Coding Instructions: Indicate whether the patient has a history of previous carotid artery surgery and/or stenting.

Target Value: Any occurrence between birth and the procedure

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 4141 Name: Severity of Stenosis - Right Carotid Artery

Coding Instructions: 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

Selections: Selection Text Definition

50%-79% 80% to 99%

100 %

Stenosis % not available



C. History & Risk Factors

Seq. #: 4142 Name: Severity of Stenosis - Left Carotid Artery Coding Instructions: 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 Selections: Selection Text Definition 50%-79% 80% to 99% 100% Stenosis % not available Supporting Definitions: (none) Seq. #: 4145 Name: Peripheral Arterial Disease Coding Instructions: 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 Selections: Selection Text Definition No Yes Supporting Definitions: Peripheral Arterial Disease: Peripheral arterial disease can include: 1. Claudication, either with exertion or at rest. 2. Amputation for arterial vascular insufficiency. 3. Vascular reconstruction, bypass surgery, or percutaneous intervention to the extremities (excluding dialysis fistulas and vein 4. Documented aortic aneurysm with or without repair. 5. Positive non-invasive test (e.g., ankle brachial index <=0.9); ultrasound, magnetic resonance, computed tomography, or angiographic imaging of > 50% diameter stenosis in any peripheral artery (e.g., renal, subclavian, femoral, iliac). For purposes of the Registry, peripheral arterial disease excludes disease in the carotid and cerebrovascular arteries. Source: STS and NCDR **Seq. #:** 4150 Name: Current/Recent Smoker (w/in 1 year)

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes



C. History & Risk Factors

Seq. #: 4155 Name: Hypertension

Coding Instructions: Indicate whether the patient has a diagnosis of hypertension.

Target Value: Any occurrence between birth and the procedure

Selections: Selection Text Definition

No

Yes

Supporting Definitions: Hypertension:

Hypertension is defined by any one of the following:

- 1. History of hypertension diagnosed and treated with medication, diet and/or exercise
- 2. Prior documentation of blood pressure greater than 140 mm Hg systolic and/or 90 mm Hg diastolic for patients without diabetes or chronic kidney disease, or prior documentation of blood pressure greater than 130 mm Hg systolic and/or 80 mm Hg diastolic on at least two occasions for patients with diabetes or chronic kidney disease
- 3. Currently on pharmacologic therapy for treatment of hypertension.

Source: ACCF/AHA 2011 Key Data Elements and Definitions of a Base Cardiovascular Vocabulary for Electronic Health Records (JACC 2011;58;202-222)

Seq. #: 4165 Name: Diabetes Mellitus

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes

Supporting Definitions: Diabetes:

The American Diabetes Association criteria include documentation of the following:

- 1. A1c >=6.5%; or
- 2. Fasting plasma glucose >=126 mg/dl (7.0 mmol/l); or
- 3. Two-hour plasma glucose >=200 mg/dl (11.1 mmol/l) during an oral glucose tolerance test; or
- 4. In a patient with classic symptoms of hyperglycemia or hyperglycemic crisis, a random plasma glucose >=200 mg/dl (11.1 mmol/l)

This does not include gestational diabetes.

Source: American Diabetes Association



C. History & Risk Factors

Seq. #: 4170 Name: Diabetes Therapy

Coding Instructions: 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

Selections:	Selection Text	Definition
	None	No treatment for diabetes.
	Diet	Diet treatment only.
	Oral	Oral agent treatment (includes oral agent with/without diet treatment).
	Insulin	Insulin treatment (includes any combination with insulin).
	Other	Other adjunctive therapy
Supporting Definitions:	(none)	

Seq. #: 4175 Name: Currently on Dialysis

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes



C. History & Risk Factors

Seq. #: 4180 Name: Chronic Lung Disease

Coding Instructions: Indicate if the patient has a history of chronic lung disease, and severity, if present.

Target Value: The value on the procedure

Selections: Selection Text Definition

> None No documented chronic lung disease.

Mild

FEV1 60% to 75% of predicted, and/or on chronic inhaled or oral bronchodilator therapy.

Moderate FEV1 50% to 59% of predicted, and/or on chronic steroid therapy aimed at lung disease.

Severe FEV1 <50% predicted, and/or Room Air pO2 < 60 or

Room Air pCO2 > 50.

Supporting Definitions: Chronic Lung Disease:

Chronic lung disease can include patients with chronic obstructive pulmonary disease, chronic bronchitis, or emphysema. It can also include a patient who is currently being chronically treated with inhaled or oral pharmacological therapy (e.g., beta-adrenergic agonist, anti-inflammatory agent, leukotriene receptor antagonist, or steroid). Patients with asthma or seasonal allergies are not considered to have chronic lung disease.

Source: NCDR

Name: Home Oxygen Seq. #: 4181

Coding Instructions: Indicate whether patient uses supplemental oxygen at home.

Target Value: The value on arrival at this facility

Selections: Selection Text Definition

No

Yes



C. History & Risk Factors

Seq. #: 4182 Name: Hostile Chest

Coding Instructions: 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

Selections: Selection Text

Definition

No

Yes

Supporting Definitions: (none)

Name: Immunocompromise Present Seq. #: 4185

Coding Instructions: Indicate whether immunocompromise is present due to immunosuppressive medication therapy within 30 days preceding the

operative procedure or existing medical condition. This includes, but is not limited to systemic steroid therapy, inhaled steriod

therapy, or preoperative protocol.

Target Value: The value between 30 days prior to the procedure and the procedure

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 4200 Name: Prior Medications ID at Home

Coding Instructions: Indicate whether the patient received the medication at home prior to this hospitalization.

Target Value: The value on arrival at this facility

Selections: (none)



C. History & Risk Factors

Seq. #: 4205 Name: Prior Medications Administered at Home

Coding Instructions: Indicate whether the patient received the medication at home prior to this hospitalization.

Target Value: The value on arrival at this facility

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 4210 Name: Prior Home Medication Dose

Coding Instructions: Specify the total daily dose of the medication the patient was taking routinely at home prior to this hospitalization.

Target Value: The value on arrival

Selections: (none)



D. Pre-Procedure Status

Seq. #: 5000 Name: CAD Presentation

Coding Instructions: 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



Selections

TVT Registry™ v2.0 Coder's Data Dictionary

s: _	Selection Text	Definition
_	No Sxs, no angina	No symptoms. No angina.
	Sx unlikely to be ischemic	Pain, pressure or discomfort in the chest, neck or arms NOT clearly exertional or NOT otherwise consistent with pain or discomfort of myocardial ischemic origin. This includes patients with noncardiac pain (e.g.pulmonary embolism, musculoskeletal, or esophageal discomfort), or cardiac pain not caused by myocardial ischemia (e.g., acute pericarditis).
	Stable angina	Angina without a change in frequency or pattern for the 6 weeks prior to this cath lab visit. Angina is controlled by rest and/or oral or transcutaneous medications.
	Unstable angina	One of three principal presentations of unstable angina: 1. Rest angina (occurring at rest and prolonged, usually >20 minutes); 2. New-onset angina (within the past 2 months, of at least Canadian Cardiovascular Society Class III severity); or 3. Increasing angina (previously diagnosed angina that has become distinctly more frequent, longer in duration, or increased by 1 or more Canadian Cardiovascular Society class to at least CCS III severity).
	Non-STEMI	The patient was hospitalized for a non-ST elevation myocardial infarction (STEMI) as documented in the medical record. Non-STEMIs are characterized by the presence of both criteria: a. Cardiac biomarkers (creatinine kinase-myocardial band, Troponin T or I) exceed the upper limit of normal according to the individual hospital's laboratory parameters with a clinical presentation which is consistent or suggestive of ischemia. ECG changes and/or ischemic symptoms may or may not be present. b. Absence of ECG changes diagnostic of a STEMI (see STEMI).
	STEMI	The patient presented with a ST elevation myocardial infarction (STEMI) or its equivalent as documented in the medical record. STEMIs are characterized by the presence of both criteria: a. ECG evidence of STEMI: New or presumed new ST-segment elevation or new left bundle branch block not documented to be resolved within 20 minutes. ST-segment elevation is defined by new or presumed new sustained ST-segment elevation at the J-point in two contiguous electrocardiogram (ECG) leads with the cut-off points: >=0.2 mV in men or >= 0.15mV in women in leads V2-V3 and/or >= 0.1 mV in other leads and lasting greater than or equal to 20 minutes. If no exact ST-elevation measurement is recorded in the medical chart, physician's written documentation of ST-elevation or Qwaves is acceptable. If only one ECG is performed, then the assumption that the ST elevation persisted at least the required 20 minutes is acceptable. Left bundle branch block (LBBB) refers to new or presumed new LBBB on the initial ECG. b. Cardiac biomarkers (creatinine kinase-myocardial band, Troponin T or I) exceed the upper limit of normal according to the individual hospital's laboratory parameters a clinical presentation which is consistent or suggestive of ischemia.



D. Pre-Procedure Status

Seq. #: 5005 Name: Prior MI

Coding Instructions: Indicate if the patient has had at least one documented previous myocardial infarction.

Target Value: Any occurrence between birth and the procedure

Selections: Selection Text Definition

No

Yes

Supporting Definitions: Myocardial Infarction:

A myocardial infarction is evidenced by any of the following:

- 1. A rise and fall of cardiac biomarkers (preferably troponin) with at least one of the values in the abnormal range for that laboratory [typically above the 99th percentile of the upper reference limit (URL) for normal subjects] together with at least one of the following manifestations of myocardial ischemia:
- a. Ischemic symptoms.
- b. ECG changes indicative of new ischemia (new ST-T changes, new left bundle branch block, or loss of R wave voltage).
- c. Development of pathological Q waves in 2 or more contiguous leads in the ECG (or equivalent findings for true posterior MI).
- d. Imaging evidence of new loss of viable myocardium or new regional wall motion abnormality.
- e. Documentation in the medical record of the diagnosis of acute myocardial infarction based on the cardiac biomarker pattern in the absence of any items enumerated in a-d due to conditions that may mask their appearance (e.g., peri-operative infarct when the patient cannot report ischemic symptoms; baseline left bundle branch block or ventricular pacing).
- 2. ECG changes associated with prior myocardial infarction can include the following (with or without prior symptoms):
- a. Any Q-wave in leads V2-V3 >=0.02 seconds or QS complex in leads V2 and V3.
- b. Q-wave >=0.03 seconds and >=0.1 mV deep or QS complex in leads I, II, aVL, aVF, or V4-V6 in any two leads of a contiguous lead grouping (I, aVL, V6; V4-V6; II, III, and aVF).
- c. R-wave >=0.04 seconds in V1-V2 and R/S >=1 with a concordant positive Twave in the absence of a conduction defect.
- 3. Imaging evidence of a region with new loss of viable myocardium at rest in the absence of a non-ischemic cause. This can be manifest as:
- a. Echocardiographic, CT, MR, ventriculographic or nuclear imaging evidence of left ventricular thinning or scarring and failure to contract appropriately (i.e., hypokinesis, akinesis, or dyskinesis).
- b. Fixed (non-reversible) perfusion defects on nuclear radioisotope imaging (e.g., MIBI, thallium).
- 4. Medical records documentation of prior myocardial infarction.

Source: Joint ESC-ACC-AHA-WHF 2007 Task Force consensus document "Universal Definition of Myocardial Infarction".

Seq. #: 5010 Name: Prior MI Timeframe

Coding Instructions: Indicate the timeframe of the myocardial infarction.

Target Value: The last value between birth and the procedure

Selections: Selection Text Definition

< 30 Days

>= 30 Days



D. Pre-Procedure Status

Seq. #: 5012 Name: Cardiomyopathy

Coding Instructions: Indicate if the patient has a history of cardiomyopathy.

Target Value: Any occurrence between birth and the procedure

Selections: Selection Text Definition

No

Yes - Ischemic

Yes - Non-ischemic

Supporting Definitions: (none)

Seq. #: 5020 Name: Heart Failure w/in 2 Weeks

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes

Supporting Definitions: Heart Failure:

Heart failure is defined as physician documentation or a report of any of the following clinical symptoms of heart failure described as unusual dyspnea on light exertion, recurrent dyspnea occurring in the supine position, fluid retention, or the description of rales, jugular venous distention, pulmonary edema on physical examination, or pulmonary edema on chest x- ray presumed to be cardiac dysfunction.

A low ejection fraction alone, without clinical evidence of heart failure, does not qualify as heart failure.

Source: ACCF/AHA 2011 Key Data Elements and Definitions of a Base Cardiovascular Vocabulary for Electronic Health Records (JACC 2011;58;202-222)



D. Pre-Procedure Status

Seg. #: 5025 Name: NYHA Class w/in 2 Weeks

Coding Instructions: 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

Selections: Selection Text Definition Class I Patient has cardiac disease but without resulting limitations of ordinary physical activity. Ordinary physical activity (e.g., walking several blocks or climbing stairs) does not cause undue fatigue, palpitation, dyspnea, or anginal pain. Limiting symptoms may occur with marked exertion. Patient has cardiac disease resulting in slight Class II limitation of ordinary physical activity. Patient is comfortable at rest. Ordinary physical activity such as walking more than two blocks or climbing more than one flight of stairs results in limiting symptoms (e.g., fatigue, palpitation, dyspnea, or anginal pain). Class III Patient has cardiac disease resulting in marked limitation of physical activity. Patient is comfortable at rest. Less than ordinary physical activity (e.g., walking one to two level blocks or climbing one flight of stairs) causes fatigue, palpitation, dyspnea, or anginal pain. Class IV Patient has dyspnea at rest that increases with any physical activity. Patient has cardiac disease resulting in inability to perform any physical activity without discomfort. Symptoms may be present even at rest. If any physical activity is undertaken, discomfort is increased.

Supporting Definitions: (none)

Seq. #: 5030 Name: Cardiogenic Shock w/in 24 Hours

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes

Supporting Definitions: Cardiogenic Shock:

Cardiogenic shock is a clinical state of end organ hypoperfusion due to cardiac failure according to the following criteria: persistant hypotension (Systolic BP < 80-90 or mean arterial pressure 30 mmHg lower than baseline) and severe reduction in Cardiac Index (< 1.8 without support or <2.2 with support).

Source: STS



D. Pre-Procedure Status

Name: Cardiac Arrest w/in 24 Hours Coding Instructions: 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 Selections: Selection Text Definition No Yes Supporting Definitions: Cardiac Arrest: "Sudden" cardiac arrest is the sudden cessation of cardiac activity so that the victim becomes unresponsive, with no normal breathing and no signs of circulation. If corrective measures are not taken rapidly, this condition progresses to sudden death. Cardiac arrest should be used to signify an event as described above that is reversed, usually by CPR, and/or defibrillation or cardioversion, or cardiac pacing. Sudden cardiac death should not be used to describe events that are not fatal. Source: ACCF/AHA 2011 Key Data Elements and Definitions of a Base Cardiovascular Vocabulary for Electronic Health Records (JACC 2011;58;202-222) Name: Cardiac Procedure w/in 30 Days **Seq. #:** 5040 Coding Instructions: 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 Selections: Selection Text Definition No Yes Supporting Definitions: (none) Seq. #: 5045 Name: Porcelain Aorta Coding Instructions: 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 Selections: Selection Text Definition Nο Yes Supporting Definitions: Porcelain Aorta: A porcelain aorta is defined as "severe atherosclerosis of the aorta, calcification may be severe and diffuse, causing an eggshell

appearance seen on chest x-ray or CT".

Source: ACCF/AHA/AATS/ACR/ASA/SCA/SCAI/SIR/STS/SVM Guidelines for the Diagnosis and Management of Patients With Thoracic Aortic Disease (JACC, 2010; 55:27-129)



D. Pre-Procedure Status

Name: Atrial Fibrillation/Flutter

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes

Supporting Definitions: Atrial Fibrillation and Atrial Flutter:

Atrial Fibrillation is a supraventricular tachyarrhythmia characterized by uncoordinated atrial activity with consequent deterioration of atrial mechanical function. On the electrocardiogram (ECG), atrial fibrillation is characterized by the replacement of consistent P waves with rapid oscillations or fibrillation waves that vary in amplitude, shape and timing, associated with an irregular, frequently rapid ventricular response when atrioventricular conduction is intact.

Atrial Flutter is characterized by a sawtooth pattern of regular atrial activation called flutter waves on the ECG, particularly visible

in leads II, III, aVF and v1.

Source: ACC/AHA 2006 Data Standards for Measuring Clinical Managementand Outcomes of Patients with Atrial Fibrillation

Seq. #: 5052 Name: Atrial Fibrillation Classification

Coding Instructions: 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

Selections: Selection Text Definition

> (No afib/flutter within the past 30 days) None

Persistent Persistent atrial fib can also be described as

longstanding, permanent or continuous.

Paroxysmal Paroxysmal can sometimes be described as sporadic

or intermittent. It can terminate spontaneously without pharmacological therapy or electrical

cardioversion.

Supporting Definitions: (none)

Seq. #: 5055 Name: Conduction Defect

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes



D. Pre-Procedure Status

Seg. #: 5085 Name: Five Meter Walk Test Performed

Coding Instructions: Indicate whether the five meter walk test was performed.

Target Value: The last value between 30 days prior to the procedure and the procedure

Selections: Selection Text Definition

Not performed

Yes The five meter walk test was performed.

Unable to walk Five meter walk was not performed because the

patient is unable to walk.

Supporting Definitions: (none)

Seq. #: 5090 Name: Five Meter Walk Time 1

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seg. #: 5095 Name: Five Meter Walk Time 2

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 5100 Name: Five Meter Walk Time 3

Coding Instructions: 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

Selections: (none)



D. Pre-Procedure Status

Seg. #: 5105 Name: Aortic Valve Replacement - STS Risk Score

Coding Instructions: 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

Selections: (none)
Supporting Definitions: (none)

Seg. #: 5106 Name: Mitral Valve Replacement - STS Risk Score

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 5107 Name: Mitral Valve Repair - STS Risk Score

Coding Instructions: 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.

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 5115 Name: Six Minute Walk Test Performed

Coding Instructions: Indicate whether the six minute walk test was performed.

Target Value: The last value between 30 days prior to the procedure and the procedure

Selections: Selection Text Definition

Performed

Not Performed - non cardiac reason Not performed cardiac reason Not performed patient not willing to

waik

Not performed by site



D. Pre-Procedure Status

Seq. #: 5116 Name: Six Minute Walk Test Date

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 5117 Name: Total Distance

Coding Instructions: Indicate the total distance, in feet, the patient walked.

Target Value: The last value between 30 days prior to the procedure and the procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 5169 Name: KCCQ-12 Patient Questionnaire Performed

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes



D. Pre-Procedure Status

Seq. #: 5170 Name: KCCQ-12 Question 1a

Coding Instructions: 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

Selections: Selection Text Definition

Extremely limited

Quite a bit limited

Moderately limited

Slightly limited

Not at all limited

Limited for other reasons or did not do the activity

the activity

Supporting Definitions: (none)

Seg. #: 5171 Name: KCCQ-12 Question 1b

Coding Instructions: 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

Selections: Selection Text Definition

Extremely limited

Quite a bit limited

Moderately limited

Slightly limited

Not at all limited

Limited for other reasons or did not do

the activity



D. Pre-Procedure Status

Seq. #: 5172 Name: KCCQ-12 Question 1c

Coding Instructions: 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

Selections: Selection Text Definition

Extremely limited
Quite a bit limited
Moderately limited
Slightly limited
Not at all limited
Limited for other
reasons or did not do
the activity

Supporting Definitions: (none)

Seq. #: 5173 Name: KCCQ-12 Question 2

Coding Instructions: 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

Selections: Selection Text Definition

Every morning

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



D. Pre-Procedure Status

Seq. #: 5174 Name: KCCQ-12 Question 3

Coding Instructions: 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

Selections: Selection Text Definition

All of the time

Several times per day

At least once a day

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

Supporting Definitions: (none)

Seq. #: 5175 Name: KCCQ-12 Question 4

Coding Instructions: 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

Selections: Selection Text Definition

All of the time

Several times per day

At least once a day

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



D. Pre-Procedure Status

Seq. #: 5176 Name: KCCQ-12 Question 5

Coding Instructions: 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

Selections: Selection Text Definition

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

Supporting Definitions: (none)

Seg. #: 5177 Name: KCCQ-12 Question 6

Coding Instructions: 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

Selections: Selection Text Definition

It has extremely limited my enjoyment

of life

It has limited my enjoyment of life quite

a bit

It has moderately limited my enjoyment

of life

It has slightly limited my enjoyment of life

It has not limited my enjoyment of life at all



D. Pre-Procedure Status

Seq. #: 5178 Name: KCCQ-12 Question 7

Coding Instructions: 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

Selections: Selection Text Definition

Not at all satisfied
Mostly dissatisfied
Somewhat satisfied
Mostly satisfied
Completely satisfied

Supporting Definitions: (none)

Seq. #: 5179 Name: KCCQ-12 Question 8a

Coding Instructions: 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

Selections: Selection Text Definition

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



D. Pre-Procedure Status

Seq. #: 5180 Name: KCCQ-12 Question 8b

Coding Instructions: 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

Selections: Selection Text Definition

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

Supporting Definitions: (none)

Seg. #: 5181 Name: KCCQ-12 Question 8c

Coding Instructions: 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

Selections: Selection Text Definition

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



D. Pre-Procedure Status

Seg. #: 5182 Name: KCCQ Overall Summary Score

Coding Instructions: (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

Selections: (none)
Supporting Definitions: (none)

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Seq. #: 5200 Name: Height

Coding Instructions: Indicate the patient's height in centimeters.

Target Value: The first value between arrival at this facility and the procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 5205 Name: Weight

Coding Instructions: Indicate the patient's weight in kilograms.

Target Value: The last value between arrival at this facility and the procedure

Selections: (none)

Supporting Definitions: (none)

Seg. #: 5250 Name: Pre-Procedure Hemoglobin

 $\begin{tabular}{ll} \textbf{Coding Instructions:} & Indicate the preprocedure hemoglobin level in g/dL. \\ \end{tabular}$

Target Value: The last value between 30 days prior to procedure and start of the procedure

Selections: (none)



D. Pre-Procedure Status

Seg. #: 5251 Name: Pre-Procedure Hemoglobin Not Drawn

Coding Instructions: Indicate if a pre-procedure hemoglobin level was not drawn.

Target Value: N/A

Selections: Selection Text Definition

No

Yes Code "Yes" if the lab was not drawn.

Supporting Definitions: (none)

Seq. #: 5255 Name: Pre-Procedure Creatinine

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 5256 Name: Pre-Procedure Creatinine Not Drawn

Coding Instructions: Indicate if a preprocedure creatinine level was not drawn.

Target Value: N/A

Selections: Selection Text Definition

No

Yes Code "Yes" if the lab was not drawn.

Supporting Definitions: (none)

Seq. #: 5260 Name: Platelet Count

Coding Instructions: Indicate the pre-procedure platelet count in microliters.

Target Value: The last value between 30 days prior to procedure and start of the procedure

Selections: (none)



D. Pre-Procedure Status

Seq. #: 5261 Name: Platelet Count Not Drawn

Coding Instructions: Indicate if a platelet count was not drawn prior to the procedure.

Target Value: N/A

Selections: Selection Text Definition

No

Yes Code "Yes" if the lab was not drawn.

Supporting Definitions: (none)

Seq. #: 5265 **Name:** INR

Coding Instructions: Indicate the pre-procedure International Normalized Ratio (INR).

Target Value: The last value between 30 days prior to procedure and start of the procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 5266 Name: INR Not Drawn

Coding Instructions: Indicate if the pre-procedure International Normalized Ratio (INR) was not drawn.

Target Value: N/A

Selections: Selection Text Definition

No

Yes Code "Yes" if the lab was not drawn.

Supporting Definitions: (none)

Seq. #: 5270 Name: Albumin

Coding Instructions: 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

Selections: (none)



D. Pre-Procedure Status

Seq. #: 5271 Name: Total Albumin Not Drawn

Coding Instructions: Indicate if the total albumin level was not drawn.

Target Value: N/A

Selections: Selection Text Definition

No

Yes Code "Yes" if the lab was not drawn.

Supporting Definitions: (none)

Seq. #: 5275 Name: Bilirubin

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 5276 Name: Total Bilirubin Not Drawn

Coding Instructions: Indicate if the total bilirubin level was not drawn.

Target Value: N/A

Selections: Selection Text Definition

No

Yes Code "Yes" if the lab was not drawn.

Supporting Definitions: (none)

Seq. #: 5277 **Name:** BNP

Coding Instructions: 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

Selections: (none)



D. Pre-Procedure Status

Seq. #: 5278 Name: NT-proBNP

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 5279 Name: BNP or NT-proBNP Not Drawn

Coding Instructions: Indicate if a BNP or NT-proBNP level was not drawn.

Target Value: N/A

Selections: Selection Text Defi

Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 5280 Name: Forced Expiratory Volume (FEV1) % Predicted

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seg. #: 5281 Name: Forced Expiratory Volume (FEV1) % Predicted Not Performed

Coding Instructions: 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

Selections: Selection Text

Definition

No

Yes Code "Yes" if the test was not performed.



D. Pre-Procedure Status

Seq. #: 5285 Name: Adjusted DLCO

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 5286 Name: DLCO Not Performed

Coding Instructions: Indicate if a lung diffusion test (DLCO) was not performed

Target Value: N/A

Selections: Selection Text Definition

No

Yes Code "Yes" if the test was not performed.

Supporting Definitions: (none)

Seq. #: 5290 Name: QRS Duration (Non-Ventricular Paced Complex)

Coding Instructions: 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.

Selections: (none)

Supporting Definitions: (none)

Seq. #: 5291 Name: Only Ventricular Paced QRS Complexes Present

Coding Instructions: 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.

Selections: Selection Text Definition

No

Yes



D. Pre-Procedure Status

Seg. #: 5400 Name: Pre-Procedure Medication

Coding Instructions: Indicate which medications the patient received 24 hours prior to the procedure.

Note(s):

For patients requiring IV inotropic support, indicate positive inotropes only. To code 'Yes' for aspirin, the minimum dose should be at least 75mg.

Target Value: Any occurrence between 24 hours prior to the procedure and start of the procedure

Selections: (none)

Supporting Definitions: (none)

Seg. #: 5405 Name: Pre-Procedure Medication Administered

Coding Instructions: Indicate whether the patient received the medication within 24 hours preceding the procedure.

Note(s):

If a medication is contraindicated it needs to be documented in the chart by the physician or other responsible care giver. The

reason for contraindication does not need to be documented.

Target Value: Any occurrence between 24 hours prior to the procedure and start of the procedure

Selections: Selection Text Definition

No

Yes

Contraindicated

Blinded

Supporting Definitions: (none)

Seq. #: 5500 Name: Diagnostic Catheterization

 $\textbf{Coding Instructions:} \ \ \textbf{Indicate whether diagnostic cardiac catheterization was performed.}$

Target Value: The last value between 12 months prior to the procedure and start of the procedure

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 5505 Name: Diagnostic Catheterization Date

Coding Instructions: 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

Selections: (none)



D. Pre-Procedure Status

Seg. #: 5506 Name: Number of Diseased Vessels

Coding Instructions: 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 last value between 12 months prior to the procedure and start of the procedure

Selections: Selection Text Definition

None No significant coronary obstructive disease

1
2
3

Supporting Definitions: (none)

Seq. #: 5507 **Name:** Left Main >=50%

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 5508 **Name:** Prox LAD >=70%

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes



D. Pre-Procedure Status

Name: Left Ventricle Ejection Fraction Sea. #: 5565

Coding Instructions: 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

Selections: (none)

Supporting Definitions: Left Ventricular Ejection Fraction (LVEF):

The left ventricular ejection fraction is the percentage of the blood emptied from the left ventricle at the end of the contraction.

Source: ACC Clinical Data Standards, The Society of Thoracic Surgeons

Name: Left Ventricle Ejection Fraction Not Assessed Seq. #: 5566

Coding Instructions: Indicate whether the left ventricular ejection fraction was not assessed or not measured prior to the induction of anesthesia.

Target Value: N/A

Selections: Selection Text Definition

No

Yes Code "yes" if LVEF was not assessed.

Supporting Definitions: (none)

Name: Cardiac Output **Seq.** #: 5567

Coding Instructions: Indicate the cardiac output in mL/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

Selections: (none)



D. Pre-Procedure Status

Seq. #: 5568 Name: Right Ventricular Systolic Pressure

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 5569 Name: Cardiac Output Not Performed

Coding Instructions: Indicate whether the cardiac output was not measured pre-procedure.

Target Value: N/A

Selections: Selection Text

Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 5590 Name: Pulmonary Capillary Wedge Pressure

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 5591 Name: Pulmonary Capillary Wedge Pressure Not Measured

Coding Instructions: Indicate if the pulmonary capillary wedge pressure was not measured pre-procedure.

Target Value: N/A

Selections: Selection Text Definition

No

Yes



D. Pre-Procedure Status

Seg. #: 5593 Name: Pulmonary Artery Pressure (Mean)

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 5594 Name: Pulmonary Artery Pressure (Mean) Not Measured

Coding Instructions: Indicate if the pre-procedure pulmonary artery mean pressure was not measured pre-procedure.

Target Value: N/A

Selections: Selection Text

Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 5595 Name: Left Ventricular Internal Systolic Dimension

Coding Instructions: 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

Selections: (none)

Supporting Definitions: General Principles for Linear and Volumetric LV Measurements:

To obtain accurate linear measurements of interventricular septal wall thickness (SWT), posterior wall thickness (PWT), and LV internal dimension, recordings should be made from the parasternal long-axis acoustic window. It is recommended that LV internal dimensions (LVIDd and LVIDs, respectively) and wall thicknesses be measured at the level of the LV minor axis, approximately at the mitral valve leaflet tips. These linear measurements can be made directly from 2D images or using 2D-targeted M-mode

echocardiography.

Source: Recommendations for Chamber Quantification: A Report from the American Society of Echocardiography's Guidelines and Standards Committee and the Chamber Quantification Writing Group, Developed in Conjunction with the European Association of Echocardiography, a Branch of the European Society of Cardiology, Journal of the American Society of Echocardiography. Volume 18 Number 12

Seq. #: 5596 Name: Pulmonary Artery Pressure (Systolic)

Coding Instructions: 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

Selections: (none)



D. Pre-Procedure Status

Name: Pulmonary Artery Pressure (Systolic) Not Measured

Coding Instructions: Indicate if the pre-procedure pulmonary artery systolic pressure was not measured pre-procedure.

Target Value: N/A

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 5598 Name: Right Atrial Pressure/CVP (Mean)

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Name: Right Atrial Pressure/CVP (Mean) Not Measured

Coding Instructions: Indicate if the pre-procedure right atrial pressure or central venous pressure (CVP) was not measured pre-procedure.

Target Value: N/A

Selections: Selection Text Definition

No

Yes



D. Pre-Procedure Status

Name: Left Ventricular Internal Diastolic Dimension

Coding Instructions: 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

Selections: (none)

Supporting Definitions: General Principles for Linear and Volumetric LV Measurements:

To obtain accurate linear measurements of interventricular septal wall thickness (SWT), posterior wall thickness (PWT), and LV internal dimension, recordings should be made from the parasternal long-axis acoustic window. It is recommended that LV internal dimensions (LVIDd and LVIDs, respectively) and wall thicknesses be measured at the level of the LV minor axis, approximately at the mitral valve leaflet tips. These linear measurements can be made directly from 2D images or using 2D-targeted M-mode

echocardiography.

Source: Recommendations for Chamber Quantification: A Report from the American Society of Echocardiography's Guidelines and Standards Committee and the Chamber Quantification Writing Group, Developed in Conjunction with the European Association of Echocardiography, a Branch of the European Society of Cardiology, Journal of the

American Society of Echocardiography. Volume 18 Number 12

Name: Left Ventricular End Systolic Volume **Seq.** #: 5601

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Name: Left Ventricular End Systolic Volume Not Measured **Seq.** #: 5602

Coding Instructions: Indicate if the left ventricular end systolic volume was not measured pre-procedure.

Target Value: N/A

Selections: Selection Text

Definition

Nο

Yes

Supporting Definitions: (none)

Seq. #: 5603 Name: Left Ventricular End Diastolic Volume

Coding Instructions: 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

Selections: (none)



D. Pre-Procedure Status

Seg. #: 5604 Name: Left Ventricular End Diastolic Volume Not Measured

Coding Instructions: Indicate if the left ventricular end diastolic volume was not measured pre-procedure.

Target Value: N/A

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 5605

Coding Instructions: Indicate the pre-procedure septal wall thickness, in cm, measured at end-diastole.

Note(s):

Name: Septal Wall Thickness

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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 5606 Name: Left Atrial Volume

Coding Instructions: Indicate the left atrial volume in ml, documented by pre-procedure echocardiogram. If the left atrial volume index is documented,

leave this field blank.

Target Value: The last value between 12 months prior to the procedure and start of the procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 5607 Name: Left Atrial Volume Index

Coding Instructions: Indicate the left atrial volume index in mL/m2, documented by pre-procedure echocardiogram. 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

Selections: (none)



D. Pre-Procedure Status

Seq. #: 5608 Name: Left Ventricular Internal Systolic Dimension Not Measured

Coding Instructions: Indicate if the left ventricular internal systolic dimension was not measured pre-procedure.

Target Value: N/A

Selections: Selection Text Definition

No
Yes

Supporting Definitions: (none)

Seq. #: 5609 Name: Left Ventricular Internal Diastolic Dimension Not Measured

Coding Instructions: Indicate if the left ventricular internal diastolic dimension was not measured pre-procedure.

Target Value: N/A

Selections: Selection Text Definition

No

Seq. #: 5610 Name: Posterior Wall Thickness

Yes

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)



D. Pre-Procedure Status

Seq. #: 5620 Name: Aortic Valve Disease - Disease Etiology

Coding Instructions: Indicate primary etiology of aortic valve disease.

Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure

Selections: Selection Text Definition

Degenerative Degenerative includes calcific, senile, and leaflet

prolapse.

Endocarditis

Congenital

Rheumatic fever

Primary aortic disease

LV outflow tract

obstruction

Supravalvular aortic stenosis

Tumor

Trauma

Other



D. Pre-Procedure Status

Seg. #: 5630 Name: Aortic Valve Disease - Aortic Regurgitation

Coding Instructions: Indicate the severity of aortic valve regurgitation.

Note(s):

"Moderately severe" should be coded as "Severe".

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

Selections: Selection Text Definition

None

Trace/Trivial

Mild Mild aortic insufficiency or regurgitation is defined as

the following:

Qualitative Measurements: Angiographic grade of 1+;

Color Doppler jet width (Central jet) <25% of LVOT;

Dopplar vena contracta width < 0.3 cm;.

Quantitative Measures (cath or echo) Regurgitant volume <30 ml/beat; Regurgitant fraction <30%; Regurgitant orifice area <0.10 cm(2)

Moderate Moderate aortic insufficiency or regurgitation is

defined as the following:

Qualitative Measurements: Angiographic grade of 2+;

Color Doppler jet width greater than mild but no signs

of severe aortic regurgitation (insufficiency); Dopplar vena contracta width 0.3-0.6 cm;

Quantitative Measures (cath or echo) Regurgitant volume 30-59 ml/beat; Regurgitant fraction 30-49%;

Regurgitant orifice area 0.10-0.29 cm(2)

Severe Severe aortic insufficiency or regurgitation is defined

as the following:

Qualitative Measurements: Angiographic grade of 3-4+;

Color Doppler jet width (Central jet) >65% of LVOT;

Dopplar vena contracta width >0.6 cm;.

Quantitative Measures (cath or echo) Regurgitant volume >=60 ml/beat; Regurgitant fraction >=50%;

Regurgitant orifice area >=0.30 cm(2)

Additional essential criteria: Left ventricular size is increased



D. Pre-Procedure Status

Name: Aortic Valve Disease - Valve Morphology

Coding Instructions: Indicate the morphology of the aortic valve.

Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure

Selections: Selection Text Definition

> Unicuspid Bicuspid Tricuspid Quadracuspid

Uncertain

Supporting Definitions: (none)

Name: Aortic Valve Disease - Annular Calcification

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 5650 Name: Aortic Valve Disease - AV Peak Velocity (CW)

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Name: Aortic Valve Disease - AV Annulus Size Seq. #: 5655

Coding Instructions: 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

Selections: (none)



D. Pre-Procedure Status

Seg. #: 5660 Name: Aortic Valve Disease - AV Annulus Size Assessment Method

Coding Instructions: 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

Selections: Selection Text Definition

TTE Transthoracic Echocardiogram

TEE Transesophageal echocardiogram

CTA computerized tomographic angiography

Angiography coronary angiography

Supporting Definitions: (none)

Seq. #: 5665 Name: Aortic Stenosis

Coding Instructions: Indicate whether aortic stenosis is present.

Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 5670 Name: Aortic Stenosis - AV Area

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 5675 Name: Aortic Stenosis - AV Mean Gradient

Coding Instructions: 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

Selections: (none)



D. Pre-Procedure Status

Sea. #: 5680 Name: Aortic Stenosis - AV Peak Gradient

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 5685 Name: Mitral Valve Disease

Coding Instructions: Indicate whether mitral valve disease is present.

Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 5695 Name: Mitral Valve Disease - MV Regurgitation

Coding Instructions: 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

Selections: Selection Text Definition

None

Trace/Trivial

Mild 1+/Mild

Moderate 2+/Moderate

Moderate-severe 3+/Moderate-severe

Severe 4+/Severe

Severe Retired TVT 2.00



D. Pre-Procedure Status

Seq. #: 5696 Name: Paravalvular Severity

Coding Instructions: Indicate the severity of paravalvular mitral regurgitation.

Target Value: The highest value between 12 months prior to the procedure and start of the procedure

Selections: Selection Text Definition

None Mild

Moderate Severe

Not Documented

Supporting Definitions: (none)

Seq. #: 5697 Name: Valvular Severity

Coding Instructions: Indicate the severity of valvular mitral regurgitation.

Target Value: The highest value between 12 months prior to the procedure and start of the procedure

Selections: Selection Text Definition

None

Mild

Moderate

Severe

Not Documented

Supporting Definitions: (none)

Seq. #: 5698 Name: Effective Orifice Area (EOA) or EROA

Coding Instructions: Indicate the effective orifice area (EOA), in cm2.

EOA can also be called effective regurgitant orifice area (EROA).

Target Value: The highest value between 12 months prior to the procedure and start of the procedure

Selections: (none)



D. Pre-Procedure Status

Seg. #: 5699 Name: Method of Assessment

Coding Instructions: 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

Selections: Selection Text Definition

3D planimetry Three-dimensional (3D) echocardiography
PISA Proximal isovelocity surface area (PISA)

Quantitative doppler

Other

Supporting Definitions: (none)

Seq. #: 5705 Name: Mitral Valve Disease - Mitral Valve Stenosis

Coding Instructions: Indicate whether mitral stenosis is present.

Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 5710 Name: Mitral Valve Stenosis - Mitral Valve Area

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 5715 Name: Mitral Valve Mean Gradient

Coding Instructions: 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

Selections: (none)



D. Pre-Procedure Status

Name: Tricuspid Valve Disease - Tricuspid Valve Regurgitation Coding Instructions: Indicate whether there is evidence of tricuspid valve regurgitation. Enter level of valve function associated with highest risk (i.e., worst performance). Note(s): "Moderately severe" should be coded as "Severe". Target Value: The highest value between 12 months prior to the procedure and start of the procedure Selections: Selection Text Definition None Trace/Trivial Mild Moderate Severe Characterized by vena contracta width greater than 0.7 cm and systolic flow reversal in hepatic veins Supporting Definitions: (none) Seg. #: 5742 Name: Prosthetic Mitral Valve Dysfunction Etiology Coding Instructions: 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 Selections: Selection Text Definition Primary/degenerative bioprosthetic valve failure Pannus formation Thrombus formation Other Supporting Definitions: (none) Name: Mitral Valve Disease Etiology - Functional Mitral Regurgitation **Seq. #:** 5745 Coding Instructions: 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 Selections: Selection Text Definition No Yes



D. Pre-Procedure Status

Name: Mitral Valve Disease Etiology - Degenerative Mitral Regurgitation Coding Instructions: 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 Selections: Selection Text Definition No Yes Supporting Definitions: (none) Name: Mitral Valve Disease Etiology - Post-Inflammatory Coding Instructions: 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 Selections: Selection Text Definition No Yes Supporting Definitions: (none) Name: Mitral Valve Disease Etiology - Endocarditis **Seq.** #: 5748 Coding Instructions: 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 Selections: Selection Text Definition No Yes Supporting Definitions: (none) Name: Mitral Valve Disease Etiology - Other/Indeterminate **Seq. #:** 5749 Coding Instructions: 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 Selections: Selection Text Definition No Yes Supporting Definitions: (none)



D. Pre-Procedure Status

Seq. #: 5755 Name: Functional Mitral Regurgitation Type

Coding Instructions: Indicate the type of functional mitral regurgitation.

Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure

Selections: Selection Text Definition

Ischemic-acute, post

infarction

Ischemic-chronic

Non-ischemic dilated cardiomyopathy

Restrictive cardiomyopathy Hypertrophic

cardiomyopathy

Pure annular dilation (with normal left ventricular systolic

function)

Not Documented

Supporting Definitions: (none)

Seq. #: 5760 Name: Leaflet Prolapse

Coding Instructions: Indicate if there was leaflet prolapse.

Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure

Selections: Selection Text Definition

None

Anterior

Posterior

Bi-leaflet

Not Documented



D. Pre-Procedure Status

Seq. #: 5765 Name: Leaflet Flail

Coding Instructions: Indicate if there was leaflet flail.

Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure

Selections: Selection Text Definition

None Anterior

Posterior Bi-leaflet

Not Documented

Supporting Definitions: (none)

Seq. #: 5770 Name: Inflammatory Type

Coding Instructions: Indicate type of inflammatory mitral valve disease.

Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure

Selections: Selection Text Definition

Idiopathic

Prior radiation therapy

Collagen vascular

disease

Drug induced

History of rheumatic

fever

Not Documented

Supporting Definitions: (none)

Seq. #: 5775 Name: Leaflet Tethering

Coding Instructions: Indicate if there was leaflet tethering.

Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure

Selections: Selection Text Definition

None

Anterior

Posterior

Bi-leaflet

Not Documented



D. Pre-Procedure Status

Name: Mitral Annular Calcification Coding Instructions: Indicate if there was mitral annular calcification. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure Selections: Selection Text Definition No Yes Not Documented Supporting Definitions: (none) Seq. #: 5810 Name: Mitral Leaflet Calcification Coding Instructions: Indicate if there was mitral leaflet calcification. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure Selections: Selection Text Definition No Yes Not Documented Supporting Definitions: (none) Name: Carpentier's Functional Class of Mitral Regurgitation **Seq.** #: 5820

Coding Instructions: 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

Selections: Selection Text Definition

Type I

Type II Type IIIa

Type IIIb

Not Documented



D. Pre-Procedure Status

Seq. #: 5900 Name:	Leaflet Indication - Fra	ailty	
Coding Instructions:	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		
Selections:	Selection Text	Definition	
	No		
	Yes		
Supporting Definitions:	(none)		
Seq. #: 5901 Name:	Leaflet Indication - Ho	ostile Chest	
Coding Instructions:	Indicate if the indication for	the leaflet clip procedure was hostile chest.	
Target Value:	The value on current proce	dure	
Selections:	Selection Text	Definition	
	No		
	Yes		
Supporting Definitions:	(none)		
Seq. #: 5902 Name:	Leaflet Indication - Se	evere Liver Disease (Cirrhosis or MELD score	>12)
Coding Instructions:		the leaflet clip procedure was severe liver disease, docu >12 (which quantifies end stage liver disease).	mented by cirrhosis or a "model for end-stage
_	The value on current proce		
Selections:	Selection Text	Definition	
	No		
	Yes		
Supporting Definitions:	(none)		
Seq. #: 5903 Name:	Leaflet Indication - Po	orcelain Aorta	
Coding Instructions:		the leaflet clip procedure was porcelain aorta or extensive dings on a chest x-ray, CT scan, fluoroscopy at the time gery.	
Target Value:	The value on current proce	dure	
Selections:	Selection Text	Definition	
	No		
	Yes		
Supporting Definitions:	(none)		



D. Pre-Procedure Status

Seq. #: 5904 Name:	Leaflet Indication - Predicted STS MV Replacement Operative Mortality Risk >=8%		
Coding Instructions:	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		
Selections:	Selection Text Definition		
	Al.		
	No Year		
	Yes		
Supporting Definitions:	(none)		
Seq. #: 5905 Name:	Leaflet Indication - Predicted STS MV Repair Operative Mortality Risk >=6%		
Coding Instructions:	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		
Selections:	Selection Text Definition		
	No		
	Yes		
Supporting Definitions:			
- Cupporting Demittons.	(none)		
Seq. #: 5906 Name:	Leaflet Indication - Unusual Extenuating Circumstances		
Coding Instructions:	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		
Selections:	Selection Text Definition		
	No		
	Yes		
Supporting Definitions:			
- Cupporting Deminions.	(none)		
Seq. #: 5907 Name:	Other Extenuating Circumstance - Right Ventricular Dysfunction with Severe TR		
Coding Instructions:	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		
Selections:	Selection Text Definition		
	No.		
	No Yea		
	Yes		
Supporting Definitions:	(none)		



D. Pre-Procedure Status

Seq. # : 5908 Name :	Other Extenuating Circumstance - Chemotherapy for Malignancy		
Coding Instructions:	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		
Selections:	Selection Text Definition		
	No		
	Yes		
Supporting Definitions:			
Seq. #: 5909 Name:	Other Extenuating Circumstance - Major Bleeding Diathesis		
Coding Instructions:	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		
Selections:	Selection Text Definition		
	No		
	Yes		
Supporting Definitions:			
Seq. #: 5910 Name:	Other Extenuating Circumstance - Immobililty		
Coding Instructions:	Indicate if the unusual extenuating circumstance included immobility resulting in prohibitive risk for mitral valve surgery.		
Target Value:	The value on current procedure		
Selections:	Selection Text Definition		
	No No		
	Yes		
Supporting Definitions:	(none)		
Seq. #: 5911 Name:	Other Extenuating Circumstance - AIDS		
Coding Instructions:	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		
_	Selection Text Definition		
	NI-		
	No Yes		
Occurrently D. C. W.	Yes		
Supporting Definitions:	(none)		



D. Pre-Procedure Status

Seq. # : 5912 Name :	Other Extenuating Circ	cumstance - Severe Dementia	
Coding Instructions:	Indicate if the unusual extenuating circumstance included severe dementia resulting in prohibitive risk for mitral valve surgery.		
Target Value:	: The value on current procedure		
Selections:	Selection Text	Definition	
	No		
	Yes		
Supporting Definitions:	(none)		
Seq. #: 5913 Name:	Other Extenuating Circ	cumstance - High Risk of Aspiration	
Coding Instructions:	Indicate if the unusual exter mitral valve surgery.	nuating circumstance included that the patient is at high	risk for aspiration resulting in prohibitive risk for
Target Value:	The value on current proced	dure	
Selections:	Selection Text	Definition	
	No		
	No Yes		
Supporting Definitions:			
Supporting Demilions.	(none)		
Seq. #: 5914 Name:	Other Extenuating Circ	cumstance - IMA at High Risk of Injury	
Coding Instructions:		nuating circumstance includes the patient having an interiorsk for mitral valve surgery.	ernal mammary artery (IMA) at high risk for
Target Value:	The value on current proced	dure	
Selections:	Selection Text	Definition	
	No		
	Yes		
Supporting Definitions:	(none)		
Seq. #: 5915 Name:	Other Extenuating Circ	cumstance - Other	
Coding Instructions:	Indicate if the unusual extervalve surgery.	nuating circumstance includes a reason, not otherwise s	pecified resulting in prohibitive risk for mitral
Target Value:	The value on current proces	dure	
Selections:	Selection Text	Definition	
	No		
	Yes		
Supporting Definitions:	(none)		



E. Procedure Information

Seq. #: 5916 Name: Other - Specify Reason Why Patient is Prohibitive Risk

Coding Instructions: 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

Selections: (none)
Supporting Definitions: (none)

Seq. #: 26060 Name: Procedure Room Arrival Date (Mitral Repair)

Coding Instructions: Indicate the date the patient arrived into the procedure room.

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 26061 Name: Procedure Room Arrival Time (Mitral Repair)

Coding Instructions: Indicate the time the patient arrived into the procedure room.

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 26070 Name: Anesthesia Induction Time

Coding Instructions: Indicate the time of anesthesia induction.

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 26071 Name: Anesthesia Discontinuation Time

Coding Instructions: Indicate the time of anesthesia discontinuation.

Target Value: The value on current procedure

Selections: (none)



E. Procedure Information

Seq. #: 26075 Name: Procedure Access (Or TEE) Start Time

Coding Instructions: Indicate the time of intravascular catheter or transesophageal echocardiogram (TEE) probe insertion (whichever is first)

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 26076 Name: Procedure Access (Or TEE) Stop Time

Coding Instructions: Indicate the time the last catheter, or transesophageal echocardiogram probe was removed (whichever was last).

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 26080 Name: Transseptal Access Start Time

Coding Instructions: Indicate the time the septum was accessed.

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 26081 Name: Septum Crossed Time

Coding Instructions: Indicate the time the septum was crossed.

Target Value: The value on current procedure

Selections: (none)



E. Procedure Information

Seq. #: 26086 Name: Steerable Guiding Cath in Intra-Atrial Septum Time

Coding Instructions: Indicate the time the steerable guiding catheter was in the intra-atrial septum.

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 26091 Name: Delivery System Retracted Time

Coding Instructions: Indicate the time the last delivery system was retracted into the steerable guiding catheter.

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 26096 Name: Steerable Guiding Cath Device Removal (From Femoral Vein)

Coding Instructions: Indicate the time the steerable guiding catheter was retracted from the femoral vein.

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 26105 Name: Conversion to Open Heart Surgery (Mitral Repair)

Coding Instructions: Indicate if conversion to open heart surgical access was required.

Target Value: Any occurrence on current procedure

Selections: Selection Text Definition

No

Yes



E. Procedure Information

Seq. #: 26140 Name: Mechanical Assist Device (Mitral Repair)

Coding Instructions: Indicate if the patient was placed on a mechanical assist device.

Target Value: The value between arrival and discharge

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 26141 Name: Mechanical Assist Device Timing (Mitral Repair)

Coding Instructions: Indicate when the mechanical assist device was inserted.

Target Value: The value between arrival and discharge

Selections: Selection Text Definition

Pre-procedure
Intraprocedure
Postprocedure

Supporting Definitions: (none)

Seq. #: 26142 Name: Mechanical Assist Device Type (Mitral Repair)

Coding Instructions: Indicate the type of mechanical assist device that was inserted.

Target Value: N/A

Selections: Selection Text Definition

IABP

Catheter-based assist

device

Supporting Definitions: (none)

Seg. #: 26180 Name: Steerable Guide Model ID

Coding Instructions: Indicate the steerable guide cath model ID utilized during the current procedure.

Target Value: The value on current procedure

Selections: (none)



E. Procedure Information

Seq. #: 26182 Name: Steerable Guide Cath Serial Number

Coding Instructions: Indicate the manufacturer serial number for the steerable guide used during the procedure.

Target Value: The value on the current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 26240 Name: Leaflet Clip Counter (Mitral Repair)

Coding Instructions: 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 **Selections:** (none)

Supporting Definitions: (none)

Seq. #: 26245 Name: Leaflet Clip Model ID (Mitral Repair)

Coding Instructions: Indicate all leaflet clip model IDs utilized during the current procedure.

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 26250 Name: Leaflet Clip Serial Number (Mitral Repair)

Coding Instructions: Indicate the leaflet clip delivery system serial number.

Target Value: The value on current procedure

Selections: (none)



E. Procedure Information

Seq. #: 26255 Name: Leaflet Clip UDI Direct Identifier (Mitral Repair)

Coding Instructions: [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

Selections: (none)

Supporting Definitions: UDI:

An identifier that is the main (primary) lookup for a medical device product and meets the requirements to uniquely identify a device through its distribution and use. This value is supplied to the FDA by the manufacturer.

Http://www.fda.gov/MedicalDevices/DeviceRegulation and Guidance/UniqueDeviceIdentification/default.htm.

Source: FDA.gov

Seg. #: 26260 Name: Leaflet Clip UDI Lot Number (Mitral Repair)

Coding Instructions: [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

Selections: (none)

Supporting Definitions: (none)

Seg. #: 26265 Name: Leaflet Clip UDI Expiration Date (Mitral Repair)

Coding Instructions: [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

Selections: (none)



E. Procedure Information

Seq. #: 26270 Name: Location (Mitral Repair)

Coding Instructions: Indicate the location on the mitral valve where the leaflet clip was attached.

Target Value: The value on current procedure

Selections: Selection Text Definition

A1P1

A2P2

A3P3

Supporting Definitions: (none)

Seq. #: 26275 Name: Leaflet Clip Deployed (Mitral Repair)

Coding Instructions: Indicate if the leaflet clip was deployed.

Target Value: The value on current procedure

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 26280 Name: Leaflet Clip Reason Not Deployed (Mitral Repair)

Coding Instructions: Indicate the reason why the leaflet clip was not deployed.

Target Value: The value on current procedure

Selections: Selection Text Definition

Inability to grasp

leaflets

Inability to reduce mitral regurgitation Mitral stenosis Mitral valve injury Device malfunction Adverse event

Other



E. Procedure Information

Seq. #: 26285 Name: Post-Implant Mitral Regurgitation (Mitral Repair)

Coding Instructions: Indicate the severity of mitral valve regurgitation.

Target Value: The value on current procedure

Selections: Selection Text Definition

None

Trace/Trivial

Mild 1+/Mild

Moderate 2+/Moderate

Moderate-severe 3+/Moderate-severe

Severe 4+/Severe

Supporting Definitions: (none)

Seg. #: 26290 Name: Post-Implant MV Mean Gradient (Mitral Repair)

Coding Instructions: Indicate the mitral valve mean gradient, in mm Hg.

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 26325 Name: Auxiliary 9

Coding Instructions: Reserved for future use.

Target Value: N/A

Selections: (none)

Supporting Definitions: (none)

Seq. #: 26330 Name: Auxiliary 10

Coding Instructions: Reserved for future use.

Target Value: N/A

Selections: (none)

E. Procedure Information

Seq. #: 29115 Name: Mitral Replacement - Operator Reason for Procedure

Coding Instructions: 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

Selections: Selection Text Definition Low Risk Low risk includes patients with a predicted <4% risk of 30 day mortality based on the risk model developed by the Society of Thoracic Surgeons. Intermediate Risk Intermediate risk includes patients with a predicted 4%-7% risk of 30 day mortality based on the risk model developed by the Society of Thoracic Surgeons. High Risk High risk includes a predicted >=8% risk of mortality within 30 days after the procedure based on the risk model developed by the Society for Thoracic Surgeons. Inoperable/extreme risk includes technically Inoperable/Extreme inoperable, co-morbid and debilitated pts.

Supporting Definitions: (none)

Seq. #: 29120 Name: Mitral Replacement - Procedure Aborted

Coding Instructions: Indicate whether the current case was canceled or aborted after patient entered the procedure location.

Target Value: The value on current procedure

Selections: Selection Text Definition

No

Yes



E. Procedure Information

Seq. #: 29125 Name: Mitral Replacement - Procedure Aborted Reason

Coding Instructions: Indicate the reason why the current aortic procedure was canceled or aborted.

Target Value: The value on current procedure

Selections: Selection Text Definition

> Navigation issue after successful access

Other

Access related issue New clinical findings Device or delivery system malfunction

status/complication of procedure

Consent issue System issue

Transseptal access

related

Supporting Definitions: (none)

Seq. #: 29127 Name: Mitral Replacement - Procedure Aborted Action

Coding Instructions: Indicate the reason or action take as a result of the aborted aortic procedure.

Target Value: The value on the current procedure

Selections: Selection Text Definition

Balloon Valvuloplasty

Rescheduled transcatheter procedure

Conversion to open heart surgery

Converted to medical

therapy

Converted to clinical

Open heart surgery

scheduled

Other



E. Procedure Information

Seq. #: 29130 Name: Mitral Replacement - Conversion to Open Heart Surgery

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 29135 Name: Mitral Replacement - Conversion to Open Heart Surgery Reason

Coding Instructions: Indicate the reason for conversion to open heart surgical access (mitral procedures).

Target Value: The value on current procedure

Selections: Selection Text Definition

Access related problem/injury Inability to position

device

Valve injury

Device embolization

Tamponade/bleeding in the heart

Other

Supporting Definitions: (none)

Seq. #: 29140 Name: Mitral Replacement - Mechanical Assist Device

Coding Instructions: Indicate if the patient was placed on a mechanical assist device.

Target Value: The value between arrival and discharge

Selections: Selection Text Definition

No

Yes



E. Procedure Information

Seq. #: 29145 Name: Mitral Replacement - Mechanical Assist Device Timing

Coding Instructions: Indicate when the mechanical assist device was inserted.

Target Value: The first value between arrival and discharge

Selections: Selection Text Definition

Pre-procedure Intraprocedure Postprocedure

Supporting Definitions: (none)

Seq. #: 29146 Name: Mechanical Assist Device Type

Coding Instructions: Indicate the type of mechanical assist device that was inserted.

Target Value: N/A

Selections: Selection Text Definition

IABP

Catheter-based assist

device

Supporting Definitions: (none)

Seg. #: 29180 Name: Mitral Replacement - Procedure Access Site

Coding Instructions: Indicate the access site used to perform the mitral procedure.

Target Value: The value on current procedure

Selections: Selection Text Definition

Transseptal

Transapical
Direct left atrium
Femoral artery

Other



E. Procedure Information

Seq. #: 29185 Name: Pre-Implant Balloon Inflation Performed Coding Instructions: Indicate if pre-implant balloon inflation was performed. Target Value: The value on current procedure Selections: Selection Text Definition No Yes Supporting Definitions: (none) Seq. #: 29190 Name: Significant Hemodynamic Deterioration After Inflation Coding Instructions: Indicate if significant hemodynamic deterioration occurred after inflation. Target Value: The value on current procedure Selections: Selection Text Definition No Yes Supporting Definitions: (none) Seq. #: 29195 Name: Post-Implant Balloon Inflation Performed Coding Instructions: Indicate if post-implant balloon inflation was performed. Target Value: The value on current procedure Selections: Selection Text Definition No Yes Supporting Definitions: (none)

Seq. #: 29200 Name: MVR - Device Counter

Coding Instructions: 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 **Selections:** (none)



E. Procedure Information

Seq. #: 29201 Name: MVR - Device Used

Coding Instructions: 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 (Seg

Num 29205).

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 29205 Name: MVR - Device Serial Number

Coding Instructions: Indicate the serial number of all valves attempted or implanted into the patient.

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 29210 Name: MVR - Valve Device UDI Direct Identifier

Coding Instructions: [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

Selections: (none)

Supporting Definitions: UDI:

An identifier that is the main (primary) lookup for a medical device product and meets the requirements to uniquely identify a

device through its distribution and use. This value is supplied to the FDA by the manufacturer.

Http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/UniqueDeviceIdentification/default.htm

Source: FDA.gov



E. Procedure Information

Seq. #: 29215 Name: MVR - Valve Device UDI Lot Number

Coding Instructions: [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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 29220 Name: MVR - Valve Device UDI Expiration Date

Coding Instructions: [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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 29225 Name: Mitral Replacement - Device Implanted Successfully

Coding Instructions: Indicate if there is correct positioning of a single prosthetic heart valve in the proper anatomical location.

Target Value: The value on current procedure

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 29285 Name: Mitral Replacement - Post-Implant Mitral Regurgitation

Coding Instructions: Indicate the severity of mitral valve regurgitation.

Target Value: The value on current procedure

Selections: Selection Text Definition

None

Trace/Trivial

Mild

Moderate

Moderate-severe

Severe



E. Procedure Information

Seq. #: 29290 Name: Mitral Replacement - Post-Implant MV Mean Gradient

Coding Instructions: Indicate the mitral valve mean gradient, in mm Hg.

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 29295 Name: Mitral Replacement - Contrast Volume

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 29325 Name: Auxiliary 11

Coding Instructions: Reserved for future use.

Target Value: N/A

Selections: (none)

Supporting Definitions: (none)

Seq. #: 29330 Name: Auxiliary 12

Coding Instructions: Reserved for future use.

Target Value: N/A

Selections: (none)



E. Procedure Information

Seq. #: 6000 Name: TVT Operator A Last Name

Coding Instructions: Indicate the last name of TVT implant operator A.

Note(s):

At least one operator is required.

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 6005 Name: TVT Operator A First Name

Coding Instructions: Indicate the first name of TVT implant operator A.

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 6010 Name: TVT Operator A Middle Name

Coding Instructions: Indicate the middle name of TVT implant operator A.

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 6015 Name: TVT Operator A NPI

Coding Instructions: Indicate the National Provider Identifer (NPI) of TVT implant operator A.

Target Value: The value on current procedure

Selections: (none)



E. Procedure Information

Seq. #: 6020 Name: TVT Operator B Last Name

Coding Instructions: Indicate the last name of TVT implant operator B.

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 6025 Name: TVT Operator B First Name

Coding Instructions: Indicate the first name of TVT implant operator B.

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 6030 Name: TVT Operator B Middle Name

Coding Instructions: Indicate the middle name of TVT implant operator B.

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 6035 Name: TVT Operator B NPI

Coding Instructions: Indicate the National Provider Idenifier (NPI) of TVT implant operator B.

Target Value: The value on current procedure

Selections: (none)



E. Procedure Information

Seq. #: 6040 Name: Procedure Start Date

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 6041 Name: Procedure Start Time

Coding Instructions: Indicate the time the procedure started.

Target Value: N/A **Selections:** (none)

Supporting Definitions: Procedure Start Time:

The time the procedure started is defined as the time at which local anesthetic was first administered for vascular access, or the

time of the first attempt at vascular access for the procedure (use whichever is earlier).

Code the skin incision time for transapical approaches (or procedure room/OR entry time if skin incision time is not documented).

Code the procedure room/OR entry time as the procedure start time for aborted cases that had no local anesthesia or vascular

access.

Source: NCDR

Seq. #: 6045 Name: Procedure Stop Date

Coding Instructions: Indicate the date the patient exits the procedure room.

Target Value: The last value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 6046 Name: Procedure Stop Time

Coding Instructions: 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

Selections: (none)



E. Procedure Information

Seq. #: 6050 Name: Procedure Location

Coding Instructions: Indicate the location where the procedure was performed.

Target Value: The value on current procedure

Selections: Selection Text Definition

Hybrid OR Suite A hybrid room situated in the surgical suite.

Hybrid Cath Lab Suite A hybrid procedure room situated in the

catheterization laboratory.

Cath Lab Other

Supporting Definitions: (none)

Seq. #: 6055 Name: Procedure Status

Coding Instructions: Indicate the clinical status of the patient prior to the procedure.

Target Value: The highest value on current procedure

Selections: Selection Text Definition

Elective The patient's cardiac function has been stable in the days or weeks prior to the operation. The procedure

could be deferred without increased risk of

compromised cardiac outcome.

Urgent Procedure required during same hospitalization in

order to minimize chance of further clinical

deterioration.

Examples include but are not limited to: Worsening, sudden chest pain, HF, acute myocardial infarction (AMI), anatomy, IABP, unstable angina (USA) with

intravenous (IV) nitroglycerin (NTG) or rest angina.

Emergency Patients requiring emergency operations will have ongoing, refractory (difficult, complicated, and/or

unmanageable) unrelenting cardiac compromise, with or without hemodynamic instability, and not responsive to any form of therapy except cardiac surgery. An emergency operation is one in which there should be no delay in providing operative

intervention.

Salvage The patient is undergoing CPR en route to the

procedure or prior to anesthesia induction or has

ongoing ECMO to maintain life.



E. Procedure Information

Seq. #: 6060 Name: Primary Procedure Indication

Coding Instructions: Indicate the PRIMARY indication for the procedure. (Choose the most significant if more than one is present.)

Target Value: The value on current procedure

Selections: Selection Text Definition

Primary Aortic Stenosis Primary Aortic Insuffiency Mixed AS/AI

Failed Bioprosthetic

Valve

Supporting Definitions: (none)

Seq. #: 6065 Name: Valve-in-Valve Procedure

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 6070 Name: Valve-in-Valve Status

Coding Instructions: Indicate the status of the valve-in-valve procedure.

Target Value: The value on current procedure

Selections: Selection Text Definition

Elective A planned TAVR typically for degenerated previously

surgically implanted bioprosthesis. Elective

procedures can also include a previously TAVR valve.

Immediate An unplanned TAVR usually when a first TAVR has intraprocedure been implanted but immediately it is recognized that

been implanted but immediately it is recognized that there is either acute valve failure or the implant was too high or too low immediately requiring a second

TAVR.



E. Procedure Information

Seq. #: 6071 Name: Operator Reason for Procedure

Coding Instructions: Indicate the operator's reason for the transcatheter valve replacement procedure.

Target Value: The value on current procedure

Selections: Selection Text Definition Low Risk Low risk includes patients with a predicted <4% risk of 30 day mortality based on the risk model developed by the Society of Thoracic Surgeons. Intermediate Risk Intermediate risk includes patients with a predicted 4%-7% risk of 30 day mortality based on the risk model developed by the Society of Thoracic Surgeons. High risk High risk includes a predicted >=8% risk of mortality within 30 days after the procedure based on the risk model developed by the Society for Thoracic Surgeons. Inoperable/Extreme Inoperable/extreme risk includes technically inoperable, co-morbid and debilitated pts. Risk Patient preference Retired TVT 2.00 Inoperable (technical) Retired TVT 2.00 Inoperable (technical) Examples can include situations where the surgeon may decide that the operation cannot be performed successfully because of technical considerations such as prior mediastinal irradiation, porcelain aorta, severe periannular calcification, severe aortic atheromatous disease, prior cardiac operations, internal mammary artery crossing the midline. Prohibitive risk Retired TVT 2.00 (debilitated/deconditio Examples can include frailty and related conditions of ned patient) advanced age, debility and deconditioning that are known to result in the inability to recover from surgical AVR. Prohibitive risk includes a predicted >=50% risk of mortality or irreversible mortality at 30 days based on the STS risk calculator. Prohibitive risk (co-Retired TVT 2.00 morbid conditions) Examples can include presence of endocarditis, history of previous cardiac surgery, pulmonary hypertension/chronic obstructive pulmonary disease, presence of hepatic dysfunction/ primary liver disease, malignancy, dementia and other conditions that lead to a limited life expectency. Prohibitive risk includes a predicted >=50% risk of mortality or irreversible mortality at 30 days based on the STS risk calculator. Other Retired TVT 2.00



E. Procedure Information

Seq. # : 6072 Name :	Evaluation of Suitability for Open AVR by Two Surgeons				
Coding Instructions:	Indicate if two surgeons evaluated the suitability for open heart aortic valve replacement surgery.				
Target Value:	: The value on current procedure				
Selections:	Selection Text Definition				
	No				
	Yes				
Supporting Definitions:	(none)				
Seq. #: 6075 Name:	Procedure Aborted				
Coding Instructions:	Indicate whether the current case was canceled or aborted after patient entered the procedure location.				

Target Value: Any occurrence on current procedure Selections: Selection Text Definition

No

Yes



E. Procedure Information

Name: Procedure Aborted Reason **Seq. #:** 6080

Coding Instructions: Indicate the reason why the current aortic procedure was canceled or aborted.

Target Value: The value on current procedure

Selections: Selection Text Definition Access related issue Examples include difficult access (arterial access, transapical or transaortic access). Examples include inability to advance through ilio-Navigation issue after successful access femoral system due to vessel size/tortuousity/calcification/disease; inability to navigate aorta; and inability to cross aortic valve. New clinical findings New clinical findings include findings that are not access or navigation related issues. Examples include annulus too large or small, thrombus or vegetation on valve, aortic valve not felt to be severely stenosed. Examples include malfunction of either the device or Device or delivery system malfunction delivery system. Examples include a patient becoming Patient status/complication of hemodynamically unstable during the procedure, a procedure patient having an adverse medication or other reaction, or a patient experiencing another complication prior to completion of the procedure. Consent issue Examples include patient/family or physician decision after start of case. Examples can include an equipment (not device) System issue malfunction (such as x-ray system equipment malfunction), or a situation where an emergency surgical case causes the transcatheter case to be aborted and rescheduled after the patient was in the room but prior to the case starting. Other



E. Procedure Information

Seq. #: 6082 Name: Procedure Aborted Action

Coding Instructions: Indicate the reason or action take as a result of the aborted aortic procedure.

Target Value: The value on current procedure

Selections: Selection Text Definition

Balloon valvuloplasty

Rescheduled transcatheter procedure

Conversion to open heart surgery

Converted to medical

therapy

Converted to clinical

trial

Other

Supporting Definitions: (none)

Seq. #: 6085 Name: Conversion to Open Heart Surgery

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes



E. Procedure Information

Seq. #: 6090 Name: Conversion to Open Heart Surgery Reason (Aortic)

Coding Instructions: Indicate the reason for conversion to open heart surgical access (aortic procedures).

Target Value: The value on current procedure

Selections: Selection Text Definition

Valve dislodged to aorta

Valve dislodged to

left ventricle
Venticular rupture
Annulus rupture
Aortic dissection
Coronary occlusion

Other

Supporting Definitions: (none)

Seq. #: 6095 Name: Mechanical Assist Device in Place at Start of Procedure

Coding Instructions: 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

Selections: Selection Text Definition

No No mechanical assist device was in place at the start of the procedure.

Yes - IABP Intra-aortic balloon pump in place at the start of the procedure.

Yes - Catheter-based Catheter based assist device in place at start of the

procedure. Examples include Impella and Tandem Heart

Supporting Definitions: (none)

Seq. #: 6100 Name: CardioPulmonary Bypass Used

assist device

Coding Instructions: Indicate if cardiopulmonary bypass or coronary perfusion was used during the procedure.

Target Value: Any occurrence on the procedure

Selections: Selection Text Definition

No

Yes



E. Procedure Information

Seq. #: 6101 Name: CardioPulmonary Bypass Status

Coding Instructions: Indicate if the use of cardiopulmonary bypass was elective or emergent.

Target Value: The value on current procedure

Selections: Selection Text Definition

Elective Cardiopulmonary bypass was planned as part of the

procedure.

Emergent Cardiopulmonary bypass was unplanned, and was

initiated during the procedure.

Supporting Definitions: (none)

Seq. #: 6105 Name: Cardiopulmonary Bypass Time

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 6110 Name: Anesthesia Type

Coding Instructions: Indicate the type of anesthesia used for the procedure.

Target Value: The value on start of procedure

Selections: Selection Text Definition

Moderate sedation

General anesthesia

Epidural

Combination

Supporting Definitions: Moderate Sedation/Analgesia ("Conscious Sedation"):

Moderate Sedation/Analgesia ("Conscious Sedation") is a drug-induced depression of consciousness during which patients respond purposefully** to verbal commands, either alone or accompanied by light tactile stimulation. No interventions are required to maintain a patent airway, and spontaneous ventilation is adequate. Cardiovascular function is usually maintained.

Source: American Society of Anesthesiologists http://www.asahq.org/publicationsAndServices/standards/20.pdf

General Anesthesia:

General Anesthesia is a drug-induced loss of consciousness during which patients are not arousable, even by painful stimulation. The ability to independently maintain ventilatory function is often impaired. Patients often require assistance in maintaining a patent airway, and positive pressure ventilation may be required because of depressed spontaneous ventilation or drug-induced depression of neuromuscular function. Cardiovascular function may be impaired.

Source: American Society of Anesthesiologists http://www.asahq.org/publicationsAndServices/standards/20.pdf



E. Procedure Information

Name: Intra-Procedure Medication **Seq.** #: 6120

Coding Instructions: Indicate which medications the patient received during the procedure.

Target Value: Any occurrence between start of the procedure and end of the procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 6125 Name: Intra-Procedure Medication Administered

Coding Instructions: Indicate whether the patient received the medication during the procedure.

Note(s):

If a medication is contraindicated it needs to be documented in the chart by the physician or other responsible care giver. The

reason for contraindication does not need to be documented.

Target Value: Any occurrence between start of the procedure and end of the procedure

Selections: Selection Text Definition

No

Yes

Contraindicated

Blinded

Supporting Definitions: (none)

Seq. #: 6200 Name: Valve Sheath Access Site (Aortic)

Coding Instructions: Indicate the access site for the valve sheath.

Target Value: Any occurrence on current procedure

Selections: Selection Text Definition

Femoral

Axillary

Transapical

Transaortic

Subclavian

Transiliac

Transeptal

Transcarotid

Other



E. Procedure Information

Seq. #: 6205 Name: Valve Sheath Access Method

Coding Instructions: Indicate the access method used to deliver the valve sheath.

Target Value: Any occurrence on current procedure

Selections: Selection Text Definition

Percutaneous

Cutdown

Mini thoracotomy

Mini sternotomy

Other

Supporting Definitions: (none)

Seq. #: 6210 Name: Valve Sheath Delivery Size

Coding Instructions: Indicate the size, in french, of the valve sheath delivery system.

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 6212 Name: Leaflet Clip Guiding Cath Access Site

Coding Instructions: Indicate the leaflet clip guiding catheter access site.

Target Value: The value on current procedure

Selections: Selection Text Definition

Right femoral vein Left femoral vein Jugular vein

Other vein

Supporting Definitions: (none)

Seq. #: 6220 Name: Device Counter

Coding Instructions: 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

Selections: (none)



E. Procedure Information

Seq. #: 6225 Name: Device Used

Coding Instructions: 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 6230).

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 6230 Name: Device Serial Number

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seg. #: 6232 Name: Device Implanted Successfully

Coding Instructions: Indicate if there is correct positioning of a single prosthetic heart valve in the proper anatomical location.

Target Value: The value on current procedure

Selections: Selection Text Definition

No

Yes



E. Procedure Information

Seq. #: 6235 Name: Device Success

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes

Supporting Definitions: Transcatheter Valve Device Success:

Device Success is defined as all of the following:

- 1. Successful vascular access, delivery and deployment of the device and successful retrieval of the delivery system,
- 2. Correct position of the device in the proper anatomical location,
- 3. Intended performance of the prosthetic heart valve (aortic valve area >1.2 cm2 and mean aortic valve gradient <20 mm Hg or peak velocity <3 m/s, without moderate or severe prosthetic valve AR),
- 4. Only one valve implanted in the proper anatomical location.

Source: Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation Clinical Trials (JACC, 2011, vol 57, No 3)

Seq. #: 6236 Name: Valve Device UDI Direct Identifier

Coding Instructions: [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

Selections: (none)

Supporting Definitions: UDI:

An identifier that is the main (primary) lookup for a medical device product and meets the requirements to uniquely identify a device through its distribution and use. This value is supplied to the FDA by the manufacturer.

Http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/UniqueDeviceIdentification/default.htm

Source: FDA.gov

Seq. #: 6237 Name: Valve Device UDI Lot Number

Coding Instructions: [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

Selections: (none)



E. Procedure Information

Seq. #: 6238 Name: Valve Device UDI Expiration Date

Coding Instructions: [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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 6385 Name: Post-Implant Mean Aortic Valve Gradient

Coding Instructions: Indicate the post-implant mean aortic valve gradient in mmHg.

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seg. #: 6395 Name: Post-Implant Calculated Aortic Valve Area

Coding Instructions: Indicate the post-implant calculated aortic valve area, in centimeters squared.

Target Value: The value on current procedure

Selections: (none)

Supporting Definitions: (none)

Seq. #: 6450 Name: Contrast Volume

Coding Instructions: 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

Selections: (none)



E. Procedure Information

Seq. #: 6455 Name: Radiation Dose Measurement Method

Coding Instructions: Indicate the method used to collect the radiation dose.

Target Value: The value on current procedure

Selections: Selection Text Definition

Single Plane

Biplane

Supporting Definitions: (none)

Seq. #: 6460 Name: Fluoroscopy Time

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 6465 Name: Fluoroscopy Dose - Cumulative Air Kerma

Coding Instructions: 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

Selections: (none)

Supporting Definitions: Cumulative (Reference) Air kerma:

Cumulative air kerma (also known as reference, reference dose, cumulative dose, or cumulative dose at a reference point) is the air kerma accumulated at a specific point in space (the patient entrance reference point) relative to the gantry of the fluoroscopy

ystem

The quantity, kerma, originated from the acronym, KERMA, for Kinetic Energy Released per unit MAss (of air).

Source: Miller DL, Balter S, Cole PE, et al. Radiation doses in interventional radiology procedures: the RAD-IR study. I. Overall measures of dose. J Vasc Interv Radiol 2003; 14:711–727.



E. Procedure Information

Seq. #: 6470 Name: Fluoroscopy Dose - Dose Area Product

Coding Instructions: 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

Selections: (none)

Supporting Definitions: Dose Air Product (DAP):

Dose Air Product, is the integral of air kerma (the energy extracted from an x-ray beam per unit mass of air in a small irradiated air volume; for diagnostic xrays, the dose delivered to that volume of air) across the entire x-ray beam emitted from the x-ray tube. It

is a surrogate measure of the amount of energy delivered to the patient.

Also known as KAP (Kerma Air Product).

Source: Miller DL, Balter S, Cole PE, et al. Radiation doses in interventional radiology procedures: the RAD-IR study. I. Overall measures of dose. J Vasc Interv Radiol 2003; 14:711–727.

Seq. #: 6475 Name: Dose Area Product Units

Coding Instructions: Indicate the units reported for radiation Dose Area Product (Kerma area product).

Target Value: N/A

Selections: Selection Text

Definition

Gy-cm2

cGy-cm2

mGy-cm2

uGy-M2

Supporting Definitions: (none)

Seq. #: 6505 Name: Auxiliary 5

Coding Instructions: Reserved for future use.

Target Value: N/A

Selections: (none)



E. Procedure Information

Seq. #: 6510 Name: Auxiliary 6 Coding Instructions: Reserved for future use. Target Value: N/A Selections: (none) Supporting Definitions: (none) Name: Procedure - Transcatheter Aortic Valve Replacement (TAVR) Coding Instructions: Indicate if a transcatheter aortic valve replacement procedure was being performed. Target Value: The value on current procedure Selections: Selection Text Definition No Yes Supporting Definitions: (none) Name: Procedure - Transcatheter Mitral Valve Replacement Seq. #: 6601 Coding Instructions: Indicate if a transcatheter mitral valve replacement procedure was being performed. Target Value: The value on current procedure Selections: Selection Text Definition No Yes Supporting Definitions: (none) Seq. #: 6602 Name: Procedure - Mitral Leaflet Clip Procedure Coding Instructions: Indicate if a mitral leaflet clip procedure was being performed. Target Value: The value on current procedure Selections: Selection Text Definition Nο

Yes



E. Procedure Information

Seq. #: 6620 Name: Other Procedure Performed Concurrently

Coding Instructions: Indicate if an other procedure was performed concurrently.

Target Value: The value on current procedure

Selections: Selection Text Definition

No

Yes - PCI

Yes - Other



F. Adverse Events/Interventions/Surgical Procedures

Seq. #: 7300 Name: Intra or Post Procedure Event Occurred

Coding Instructions: Indicate if any intra or post procedure event occurred.

Target Value: Any occurrence between start of the procedure and discharge

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 7301 Name: Intra or Post Procedure Event ID

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 7302 Name: Intra or Post Procedure Event Date

Coding Instructions:

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

Selections: (none)



G. Post-Procedure Labs and Tests

Seg. #: 8040 Name: Post-Procedure Hemoglobin

Coding Instructions: Indicate the lowest post-procedure hemoglobin level in g/dL.

Target Value: The lowest value between end of procedure and discharge

Selections: (none)

Supporting Definitions: (none)

Seq. #: 8041 Name: Post-Procedure Hemoglobin Not Drawn

Coding Instructions: Indicate if a post procedure hemoglobin level was not drawn.

Target Value: N/A

Selections: Selection Text Definition

No

Yes Code "Yes" if the lab was not drawn.

Supporting Definitions: (none)

Seq. #: 8050 Name: Post-Procedure Creatinine Level

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 8051 Name: Post-Procedure Creatinine Level Not Drawn

Coding Instructions: Indicate if a post procedure creatinine level was not drawn.

Target Value: N/A

Selections: Selection Text Definition

No

Yes Code "Yes" if the lab was not drawn.



G. Post-Procedure Labs and Tests

Seq. #: 8055 Name: Discharge Creatinine

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 8056 Name: Discharge Creatinine Not Drawn

Coding Instructions: Indicate if a discharge creatinine level was not drawn.

Target Value: N/A

Selections: Selection Text Definition

No

Yes Code "Yes" if the lab was not drawn.

Supporting Definitions: (none)

Seq. #: 8060 Name: Post-Procedure 12 Lead ECG

Coding Instructions: 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

Selections: Selection Text Definition

Not performed

No significant changes

New pathological Qwave or LBBB



G. Post-Procedure Labs and Tests

Seq. #: 8065 Name: Post-Procedure Echocardiogram

Coding Instructions: 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

Selections: Selection Text Definition

Not Performed

Yes - TTE Yes - Transthoracic Echocardiogram
Yes - TEE Yes - Tranesophageal Echocardiogram

Supporting Definitions: (none)

Seq. #: 8070 Name: Post-Procedure Echocardiogram Date

Coding Instructions: Indicate the date the echo was performed.

Target Value: The value between end of procedure and discharge

Selections: (none)

Supporting Definitions: (none)

Seq. #: 8075 Name: Post-Procedure Mitral Regurgitation

Coding Instructions: Indicate the highest level of mitral regurgitation found on echocardiogram prior to discharge.

Target Value: The highest value between end of procedure and discharge

Selections: Selection Text Definition

None

Trace/Trivial

Mild 1+/Mild

Moderate 2+/Moderate

Moderate-Severe 3+/Moderate-severe

Severe 4+/Severe

Severe Retired TVT 2.00



G. Post-Procedure Labs and Tests

Name: Post-Procedure Aortic Stenosis **Seq. #:** 8080

Coding Instructions: Indicate whether aortic stenosis is present.

Target Value: Any occurrence between end of the procedure and discharge

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Name: Post-Procedure Aortic Valve Area **Seq. #:** 8085

Coding Instructions: Indicate the smallest aortic valve area (in cm2) obtained from an echocardiogram.

Target Value: The lowest value between end of procedure and discharge

Selections: (none)

Supporting Definitions: (none)

Name: Post-Procedure Aortic Valve Peak Velocity Seg. #: 8086

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 8090 Name: Post-Procedure Aortic Valve Mean Gradient

Coding Instructions: Indicate the aortic valve mean gradient in mmHg obtained from echocardiogram.

Target Value: The highest value between end of procedure and discharge

Selections: (none)



G. Post-Procedure Labs and Tests

Seq. #: 8095 Name: Post-Procedure Aortic Regurgitation

Coding Instructions: Indicate the highest level of aortic regurgitation found on the echocardiogram.

Note(s):

Mild-to-moderate should be coded as moderate; moderate to severe should be coded as severe.

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

Selections: Selection Text Definition

None

Trace/Trivial

Mild Mild aortic insufficiency or regurgitation is defined as

the following:

Qualitative Measurements: Angiographic grade of 1+;

Color Doppler jet width (Central jet) <25% of LVOT;

Dopplar vena contracta width <0.3 cm;.

Quantitative Measures (cath or echo) Regurgitant volume <30 ml/beat; Regurgitant fraction <30%;

Regurgitant orifice area <0.10 cm(2)

Moderate Moderate aortic insufficiency or regurgitation is

defined as the following:

Qualitative Measurements: Angiographic grade of 2+;

Color Doppler jet width greater than mild but no signs

of severe aortic regurgitation (insufficiency); Dopplar vena contracta width 0.3-0.6 cm;

Quantitative Measures (cath or echo) Regurgitant volume 30-59 ml/beat; Regurgitant fraction 30-49%; Regurgitant orifice area 0.10-0.29 cm(2)

3 3 ()

Severe Severe aortic insufficiency or regurgitation is defined

as the following:

Qualitative Measurements: Angiographic grade of 3-4+;

Color Doppler jet width (Central jet) >65% of LVOT;

Dopplar vena contracta width >0.6 cm;.

Quantitative Measures (cath or echo) Regurgitant volume >=60 ml/beat; Regurgitant raction >=50%;

Regurgitant orifice area >=0.30 cm(2)

Additional essential criteria: Left ventricular size is increased



G. Post-Procedure Labs and Tests

Seq. #: 8106 Name: TAVR - Paravalvular Severity

Coding Instructions: Indicate the highest severity of paravalvular aortic insufficiency.

Target Value: The highest value between end of procedure and discharge

Selections: Selection Text Definition

None Mild

Moderate Severe

Not Documented

Supporting Definitions: (none)

Seq. #: 8107 Name: TAVR - Valvular Severity

Coding Instructions: Indicate the highest severity of central aortic insufficiency.

Target Value: The highest value between end of procedure and discharge

Selections: Selection Text Definition

None

Mild

Moderate

Severe

Not Documented

Supporting Definitions: (none)

Seq. #: 8112 Name: Mitral Replacement - Paravalvular Severity

Coding Instructions: Indicate the highest severity of paravalvular mitral regurgitation.

Target Value: The highest value between end of current procedure and discharge

Selections: Selection Text Definition

None

Mild

Moderate

Severe

Not Documented



G. Post-Procedure Labs and Tests

Seq. #: 8115 Name: Mitral Replacement - Valvular Severity

Coding Instructions: Indicate the highest severity of valvular mitral aortic regurgitation.

Target Value: The highest value between end of current procedure and discharge

Selections: Selection Text Definition

None Mild

Moderate Severe

Not Documented

Supporting Definitions: (none)

Seq. #: 8122 Name: Effective Orifice Area (EOA) or EROA

Coding Instructions: Indicate the effective orifice area (EOA), in cm2. EOA can also be called effective regurgitant orifice area (EROA).

Target Value: The highest value on discharge

Selections: (none)

Supporting Definitions: (none)

Seq. #: 8125 Name: EOA Method Of Assessment

Coding Instructions: Indicate the method used to measure the effective orifice area.

Target Value: The highest value between end of current procedure and discharge

Selections: Selection Text Definition

3D Planimetry Three-dimensional (3D) echocardiography
PISA Proximal isovelocity surface area (PISA)

Quantitative Doppler

Other

Supporting Definitions: (none)

Seq. #: 8130 Name: Mitral Valve Mean Gradient

Coding Instructions: Indicate the highest mean gradient (in mm Hg) across the mitral valve.

Target Value: The highest value between end of current procedure and discharge

Selections: (none)



G. Post-Procedure Labs and Tests

Seq. #: 8135 Name: Mitral Valve Area

Coding Instructions: Indicate the smallest mitral valve area in centimeters squared.

Target Value: (None)

Selections: (none)

Supporting Definitions: (none)

Seq. #: 8140 Name: Left Ventricular Outflow Tract Gradient (Peak)

Coding Instructions: Indicate the peak gradient of the left ventricular outflow tract.

Target Value: The highest value between end of current procedure and discharge

Selections: (none)

Supporting Definitions: (none)

Seq. #: 8145 Name: Systolic Anterior Motion Present

Coding Instructions: Indicate if systolic anterior motion was present.

Target Value: Any occurrence between end of current procedure and discharge

Selections: Selection Text Definition

No

Yes



H. Discharge

Seg. #: 9011 Name: RBC/Whole Blood Transfusion

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 9012 Name: RBC/Whole Blood Transfusion Units Transfused

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 9040 Name: Number of Hours in ICU

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 9045 Name: Discharge Date

Coding Instructions: 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

Selections: (none)



H. Discharge

Seq. #: 9050 Name: Discharge Status

Coding Instructions: Indicate whether the patient was alive or deceased at discharge.

Target Value: The value on discharge

Selections: Selection Text Definition

Alive Deceased

Supporting Definitions: (none)

Seq. #: 9055 Name: Discharge Location

Coding Instructions: Indicate the location to where the patient was discharged.

Target Value: The value on discharge

Selections: Selection Text Definition

Home

Extended care/TCU/rehab

Continued "non-acute" care at an extended care facility, transitional care unit, or rehabilitation unit.

Other acute care

hospital
Nursing home
Hospice
Other

Left against medical

The patient was discharged or eloped against medical

advice.

Supporting Definitions: (none)

Seq. #: 9060 Name: Death in Lab/OR

Coding Instructions: 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

advice

Selections: Selection Text Definition

No

Yes



H. Discharge

Seq. #: 9065 Name: Primary Cause of Death

Coding Instructions: Select the PRIMARY cause of death, i.e. the first significant abnormal event which ultimately led to death.

Target Value: The value on discharge

Selections: Selection Text Definition

Cardiac

Neurologic

Renal

Vascular

Infection

Valvular

Pulmonary

Unknown

Other

Seq. #: 9100 Name: Discharge Medication

Coding Instructions: Indicate which of the following medications were prescribed at discharge.

Target Value: Any occurrence on discharge

Selections: (none)

Supporting Definitions: (none)

Supporting Definitions: (none)

Seq. #: 9105 Name: Discharge Medication Administered

Coding Instructions: Indicate if the medication was administered, not administered, contraindicated or blinded.

Note(s):

If a medication is contraindicated it needs to be documented in the chart by the physician or other responsible care giver. The reason for contraindication does not need to be documented.

Target Value: The value on discharge

Selections: Selection Text Definition

No

Yes

Contraindicated

Blinded



H. Discharge

Seq. #: 9110 Name: Medication Dose at Discharge

Coding Instructions: Specify the total daily dose of the medication prescribed at discharge.

Target Value: The value on discharge

Selections: (none)



I. Follow-Up

Seq. #: 10000 Name: Follow-up Assessment Date

Coding Instructions: Indicate the date the follow-up assessment was performed.

Target Value: The value on follow-up

Selections: (none)

Supporting Definitions: (none)

Seq. #: 10005 Name: Follow-up Assessment Method

Coding Instructions: Indicate the primary method to determine patient status at follow-up.

Target Value: Any occurrence on follow-up

Selections: Selection Text Definition

Clinic

Medical record

Letter from medical

provider

Phone call to patient/family

Social Security Death

master File

Other

Supporting Definitions: (none)

Seq. #: 10008 Name: Follow-up Residence

Coding Instructions: 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

Selections: Selection Text Definition

Home with no health-

aid

Home with health aid

Long term care

Other

Not Documented



I. Follow-Up

Seq. #: 10010 Name: Follow-up Status

Coding Instructions: Indicate whether the patient was alive or deceased at the date the follow-up was performed.

Target Value: Any occurrence on follow-up

Selections: Selection Text Definition

Alive
Deceased
Lost to follow-up
Withdrawn

Supporting Definitions: (none)

Seq. #: 10015 Name: Follow-up Primary Cause of Death

Coding Instructions: Indicate the PRIMARY cause of death (i.e. the first significant event which ultimately led to death).

Target Value: Any occurrence on follow-up

Cardiac

Selections: Selection Text Definition

Neurologic Renal Vascular Infection Valvular Pulmonary Unknown Other

Supporting Definitions: (none)

Seq. #: 10020 Name: Follow-up Date of Death

Coding Instructions: Indicate the date the patient was declared dead.

Target Value: The value on follow-up

Selections: (none)



I. Follow-Up

Seq. #: 10085 Name: Follow-up Hemoglobin

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 10086 Name: Follow-up Hemoglobin Not Drawn

Coding Instructions: Indicate if a hemoglobin level was not drawn during the follow-up period.

Target Value: N/A

Selections: Selection Text Definition

No

Yes Code "Yes" if the lab was not drawn.

Supporting Definitions: (none)

Seq. #: 10090 Name: Follow-up Creatinine

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 10091 Name: Follow-up Creatinine Not Drawn

Coding Instructions: Indicate if a creatinine level was not drawn during the follow-up period.

Target Value: N/A

Selections: Selection Text Definition

No

Yes Code "Yes" if the lab was not drawn.



I. Follow-Up

Seq. #: 10100 Name: Follow-up NYHA Classification

Coding Instructions: 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

Selections: Selection Text Definition Patient has cardiac disease but without resulting limitations of ordinary physical activity. Ordinary physical activity (e.g., walking several blocks or climbing stairs) does not cause undue fatigue, palpitation, dyspnea, or anginal pain. Limiting symptoms may occur with marked exertion. Patient has cardiac disease resulting in slight Ш limitation of ordinary physical activity. Patient is comfortable at rest. Ordinary physical activity such as walking more than two blocks or climbing more than one flight of stairs results in limiting symptoms (e.g., fatigue, palpitation, dyspnea, or anginal pain). Ш Patient has cardiac disease resulting in marked limitation of physical activity. Patient is comfortable at rest. Less than ordinary physical activity (e.g., walking one to two level blocks or climbing one flight of stairs) causes fatigue, palpitation, dyspnea, or anginal pain. IV Patient has symptoms at rest that increase with any physical activity. Patient has cardiac disease resulting in inability to perform any physical activity without discomfort. Symptoms may be present even at rest. If any physical activity is undertaken, discomfort is increased.

Supporting Definitions: (none)

Seq. #: 10135 Name: Follow-up Five Meter Walk Test Performed

Coding Instructions: Indicate whether the five meter walk test was performed during the follow-up period.

Target Value: Any occurrence on follow-up

Selections: Selection Text Definition

Not performed

Yes The five meter walk test was performed.

Unable to walk Five meter walk was not performed because the

patient is unable to walk.

Supporting Definitions: (none)

Seq. #: 10140 Name: Follow-up Five Meter Walk Test Time 1

Coding Instructions: 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

Selections: (none)



I. Follow-Up

Seq. #: 10145 Name: Follow-up Five Meter Walk Test Time 2

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 10150 Name: Follow-up Five Meter Walk Test Time 3

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 10155 Name: Follow-up 12-Lead ECG Findings

Coding Instructions: Indicate the 12 lead ECG findings during the follow-up period.

Target Value: Any occurrence on follow-up

Selections: Selection Text Definition

Not performed No significant changes

New changes noted

Supporting Definitions: (none)

Seq. #: 10160 Name: Follow-up 12-Lead ECG Changes Noted

Coding Instructions: Indicate the ECG changes noted on the follow-up ECG.

Target Value: Any occurrence on follow-up

Selections: Selection Text Definition

Pathological Q-wave or LBBB New pathologic q-waves and/or new left bundle branch block.

or EDDD Station Blook.

Arrhythmia New onset of atrial or ventricular arrhythmia requiring medication or other therapy.

Both



I. Follow-Up

Seq. #: 10206 Name: Follow-up Echocardiogram

Coding Instructions: Indicate if an echocardiogram has been performed.

Target Value: Any occurrence on follow-up

Selections: Selection Text Definition

Not Performed
Yes - TTE
Yes - TEE

Supporting Definitions: (none)

Seq. #: 10207 Name: Follow-up Date

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 10210 Name: Follow-up LVEF

Coding Instructions: 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

Selections: (none)



I. Follow-Up

Sea. #: 1	0211	Name:	Follow-up	LVEF	Not A	Assessed
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Coding Instructions: Indicate whether the left ventricular ejection fraction was not assessed.

Target Value: N/A

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 10215 Name: Follow-up Aortic Valve Mean Gradient

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 10220 Name: Follow-up Aortic Regurtitation Severity

Coding Instructions: Indicate the highest level of aortic regurgitation found on echo since discharge or the last follow-up period.

Note(s):

Mild-to-moderate should be coded as moderate; moderate to severe should be coded as severe.

Target Value: The highest value on follow-up

Selections: Selection Text Definition

None

Trace/Trivial

Mild

Moderate

Severe



I. Follow-Up

Coding Instructions: 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 Selections: Selection Text Definition None Mild Moderate Severe Not Documented Supporting Definitions: (none)
Selections: Selection Text Definition None Mild Moderate Severe Not Documented Supporting Definitions: (none) Seq. #: 10227 Name: Follow-up Aortic Regurgitation Central Severity Coding Instructions: 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 Selections: Selection Text Definition None Mild Moderate Severe Not Documented Supporting Definitions: (none) Seq. #: 10230 Name: Follow-Up KCCQ-12 Patient Questionnaire Performed Coding Instructions: Indicate if the follow-up Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed.
None Mild Moderate Severe Not Documented Supporting Definitions: (none) Seq. #: 10227 Name: Follow-up Aortic Regurgitation Central Severity Coding Instructions: 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 Selections: Selection Text Definition None Mild Moderate Severe Not Documented Supporting Definitions: (none) Seq. #: 10230 Name: Follow-Up KCCQ-12 Patient Questionnaire Performed Coding Instructions: Indicate if the follow-up Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed.
Mild Moderate Severe Not Documented Supporting Definitions: (none) Seq. #: 10227 Name: Follow-up Aortic Regurgitation Central Severity Coding Instructions: 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 Selections: Selection Text Definition None Mild Moderate Severe Not Documented Supporting Definitions: (none) Seq. #: 10230 Name: Follow-Up KCCQ-12 Patient Questionnaire Performed Coding Instructions: Indicate if the follow-up Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed.
Moderate Severe Not Documented Supporting Definitions: (none) Seq. #: 10227 Name: Follow-up Aortic Regurgitation Central Severity Coding Instructions: 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 Selections: Selection Text Definition None Mild Moderate Severe Not Documented Supporting Definitions: (none) Seq. #: 10230 Name: Follow-Up KCCQ-12 Patient Questionnaire Performed Coding Instructions: Indicate if the follow-up Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed.
Supporting Definitions: (none) Seq. #: 10227 Name: Follow-up Aortic Regurgitation Central Severity Coding Instructions: 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 Selections: Selection Text Definition None Mild Moderate Severe Not Documented Supporting Definitions: (none) Seq. #: 10230 Name: Follow-Up KCCQ-12 Patient Questionnaire Performed Coding Instructions: Indicate if the follow-up Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed.
Supporting Definitions: (none) Seq. #: 10227 Name: Follow-up Aortic Regurgitation Central Severity Coding Instructions: 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 Selections: Selection Text Definition None Mild Moderate Severe Not Documented Supporting Definitions: (none) Seq. #: 10230 Name: Follow-Up KCCQ-12 Patient Questionnaire Performed Coding Instructions: Indicate if the follow-up Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed.
Supporting Definitions: (none) Seq. #: 10227 Name: Follow-up Aortic Regurgitation Central Severity Coding Instructions: 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 Selections: Selection Text Definition None Mild Moderate Severe Not Documented Supporting Definitions: (none) Seq. #: 10230 Name: Follow-Up KCCQ-12 Patient Questionnaire Performed Coding Instructions: Indicate if the follow-up Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed.
Seq. #: 10227 Name: Follow-up Aortic Regurgitation Central Severity Coding Instructions: 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 Selections: Selection Text Definition None Mild Moderate Severe Not Documented Supporting Definitions: (none) Seq. #: 10230 Name: Follow-Up KCCQ-12 Patient Questionnaire Performed Coding Instructions: Indicate if the follow-up Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed.
Coding Instructions: 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 Selections: Selection Text Definition None Mild Moderate Severe Not Documented Supporting Definitions: (none) Seq. #: 10230 Name: Follow-Up KCCQ-12 Patient Questionnaire Performed Coding Instructions: Indicate if the follow-up Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed.
Target Value: The highest value on follow-up Selections: Selection Text Definition None Mild Moderate Severe Not Documented Supporting Definitions: (none) Seq. #: 10230 Name: Follow-Up KCCQ-12 Patient Questionnaire Performed Coding Instructions: Indicate if the follow-up Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed.
Selections: Selection Text Definition None Mild Moderate Severe Not Documented Supporting Definitions: (none) Seq. #: 10230 Name: Follow-Up KCCQ-12 Patient Questionnaire Performed Coding Instructions: Indicate if the follow-up Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed.
Selections: Selection Text Definition None Mild Moderate Severe Not Documented Supporting Definitions: (none) Seq. #: 10230 Name: Follow-Up KCCQ-12 Patient Questionnaire Performed Coding Instructions: Indicate if the follow-up Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed.
Mild Moderate Severe Not Documented Supporting Definitions: (none) Seq. #: 10230 Name: Follow-Up KCCQ-12 Patient Questionnaire Performed Coding Instructions: Indicate if the follow-up Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed.
Moderate Severe Not Documented Supporting Definitions: (none) Seq. #: 10230 Name: Follow-Up KCCQ-12 Patient Questionnaire Performed Coding Instructions: Indicate if the follow-up Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed.
Severe Not Documented Supporting Definitions: (none) Seq. #: 10230 Name: Follow-Up KCCQ-12 Patient Questionnaire Performed Coding Instructions: Indicate if the follow-up Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed.
Not Documented Supporting Definitions: (none) Seq. #: 10230 Name: Follow-Up KCCQ-12 Patient Questionnaire Performed Coding Instructions: Indicate if the follow-up Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed.
Supporting Definitions: (none) Seq. #: 10230 Name: Follow-Up KCCQ-12 Patient Questionnaire Performed Coding Instructions: Indicate if the follow-up Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed.
Seq. #: 10230 Name: Follow-Up KCCQ-12 Patient Questionnaire Performed Coding Instructions: Indicate if the follow-up Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed.
Coding Instructions: 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
Selections: Selection Text Definition
No
Yes
Supporting Definitions: (none)



I. Follow-Up

Seq. #: 10231 Name: Follow-Up KCCQ-12 Question 1a

Coding Instructions: 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

Selections: Selection Text Definition

Extremely limited
Quite a bit limited
Moderately limited
Slightly limited
Not at all limited
Limited for other

reasons or did not do

the activity

Supporting Definitions: (none)

Seq. #: 10232 Name: Follow-Up KCCQ-12 Question 1b

Coding Instructions: 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

Selections: Selection Text Definition

Extremely limited

Quite a bit limited

Moderately limited

Slightly limited

Not at all limited

Limited for other reasons or did not do

the activity



I. Follow-Up

Seq. #: 10233 Name: Follow-Up KCCQ-12 Question 1c

Coding Instructions: 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

Selections: Selection Text Definition

Extremely limited
Quite a bit limited
Moderately limited
Slightly limited
Not at all limited

Limited for other reasons or did not do

the activity

Supporting Definitions: (none)

Seq. #: 10234 Name: Follow-Up KCCQ-12 Question 2

Coding Instructions: 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

Selections: Selection Text Definition

Every morning

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



I. Follow-Up

Seq. #: 10235 Name: Follow-Up KCCQ-12 Question 3

Coding Instructions: 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

Selections: Selection Text Definition

All of the time

Several times per day

At least once a day

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

Supporting Definitions: (none)

Seq. #: 10236 Name: Follow-Up KCCQ-12 Question 4

Coding Instructions: 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

Selections: Selection Text Definition

All of the time

Several times per day

At least once a day

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



I. Follow-Up

Seq. #: 10237 Name: Follow-Up KCCQ-12 Question 5

Coding Instructions: 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

Selections: Selection Text Definition

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

Supporting Definitions: (none)

Seq. #: 10238 Name: Follow-Up KCCQ-12 Question 6

Coding Instructions: 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

Selections: Selection Text Definition

> It has extremely limited my enjoyment of life

It has limited my enjoyment of life quite

a bit

It has moderately limited my enjoyment

of life

It has slightly limited my enjoyment of life

It has not limited my enjoyment of life at all



I. Follow-Up

Seq. #: 10239 Name: Follow-Up KCCQ-12 Question 7

Coding Instructions: 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

Selections: Selection Text Definition

Not at all satisfied Mostly dissatisfied Somewhat satisfied Mostly satisfied Completely satisfied

Supporting Definitions: (none)

Seq. #: 10240 Name: Follow-Up KCCQ-12 Question 8a

Coding Instructions: 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

Selections: Selection Text Definition

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



I. Follow-Up

Seq. #: 10241 Name: Follow-Up KCCQ-12 Question 8b

Coding Instructions: 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

Selections: Selection Text Definition

Severely limited

Limited quite a bit

Moderately limited

Slightly limited

Did not limit at all

Does not apply or did not do for other

Supporting Definitions: (none)

Seq. #: 10242 Name: Follow-Up KCCQ-12 Question 8c

Coding Instructions: 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

Selections: Selection Text Definition

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



I. Follow-Up

Seq. #: 10243 Name: Follow-Up KCCQ Overall Summary Score

Coding Instructions: (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.

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Target Value: The value on follow-up

Selections: (none)

Supporting Definitions: (none)

Seg. #: 10245 Name: Follow-Up Event Occurred

Coding Instructions: 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

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 10246 Name: Follow-Up Event ID

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 10247 Name: Follow-Up Event Date

Coding Instructions: 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

Selections: (none)



I. Follow-Up

Seq. #: 10250 Name: Follow-up Medication

Coding Instructions: Indicate which of the following medications has been prescribed for the patient during the follow-up period.

Target Value: Any occurrence on follow-up

Selections: (none)

Supporting Definitions: (none)

Seg. #: 10255 Name: Follow-up Medication Administered

Coding Instructions: Indicate if the medication was administered, not administered, contraindicated or blinded when considered during the follow-up

period.

Note(s):

If a medication is contraindicated it needs to be documented in the chart by the physician or other responsible care giver. The

reason for contraindication does not need to be documented.

Target Value: The value on follow-up

Selections: Selection Text Definition

No

Yes

Contraindicated

Blinded

Supporting Definitions: (none)

Seq. #: 10257 Name: Follow-up Medication Dose

Coding Instructions: Specify the total daily dose of the medication the patient was taking routinely at follow-up for this procedure.

Target Value: The value on follow-up

Selections: (none)

Supporting Definitions: (none)

Seq. #: 10260 Name: Auxiliary 7

Coding Instructions: Reserved for future use.

Target Value: N/A

Selections: (none)



I. Follow-Up

Seq. #: 10265 Name: Auxiliary 8

Coding Instructions: Reserved for future use.

Target Value: N/A

Selections: (none)

Supporting Definitions: (none)

Seq. #: 10300 Name: Follow-up Mitral Regurgitation

Coding Instructions: Indicate the level of mitral regurgitation found on echocardiogram in the last follow-up period.

Target Value: The highest value on follow-up

Selections: Selection Text Definition

None

Trace/Trivial

Mild 1+/Mild

Moderate 2+/Moderate

Moderate-severe 3+/Moderate-severe

Severe 4+/Severe

Severe Retired TVT 2.00

Supporting Definitions: (none)

Seq. #: 10305 Name: Follow-up Paravalvular Severity

Coding Instructions: Indicate the highest severity of paravalvular mitral regurgitation.

Target Value: The highest value on follow-up

Selections: Selection Text Definition

None

Mild

Moderate

Severe

Not Documented



I. Follow-Up

Seq. #: 10310 Name: Follow-up Valvular Severity

Coding Instructions: Indicate the highest severity of valvular mitral regurgitation.

Target Value: The highest value on follow-up

Selections: Selection Text Definition

None Mild Moderate

Severe

Not Documented

Supporting Definitions: (none)

Seq. #: 10315 Name: Follow-up Effective Orifice Area (EOA) or EROA

Coding Instructions: Indicate the effective orifice area (EOA), in cm2. EOA can also be called effective regurgitant orifice area (EROA).

Target Value: The highest value on follow-up

Selections: (none)

Supporting Definitions: (none)

Seq. #: 10320 Name: Follow-up Effective Orifice Area Method of Assessment

Coding Instructions: Indicate the method used to measure the effective orifice area.

Target Value: The highest value on follow-up

Selections: Selection Text Definition

3D Planimetry Three-dimensional (3D) echocardiography
PISA Proximal isovelocity surface area (PISA)

Quantitative Doppler

Other

Supporting Definitions: (none)

Seq. #: 10325 Name: Follow-up Mitral Valve Area

Coding Instructions: Indicate the smallest mitral valve area in cm2.

Target Value: The value on follow-up

Selections: (none)



I. Follow-Up

Seq. #: 10330 Name: Follow-up Mean Mitral Gradient

Coding Instructions: Indicate the mean gradient (in mm Hg) across the mitral valve.

Target Value: The value on follow-up

Selections: (none)

Supporting Definitions: (none)

Seq. #: 10335 Name: Follow-up Left Atrial Volume

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seg. #: 10340 Name: Follow-up Left Atrial Volume Index

Coding Instructions: 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

Selections: (none)

Supporting Definitions: (none)

Seq. #: 10345 Name: Follow-up Left Ventricular Internal Systolic Dimension

Coding Instructions: Indicate the left ventricular internal systolic dimension in cm.

Target Value: The value on follow-up

Selections: (none)



I. Follow-Up

Seq. #: 10346 Name:	: Follow-up Left Ventricular Internal Systolic Dimension Not Measured						
Coding Instructions:	: Indicate if the left ventricular internal systolic dimension in cm was not measured at follow-up.						
Target Value:	: N/A						
Selections:	Selection Text Definition						
	No						
	Yes						
Supporting Definitions:	(none)						
Seq. #: 10350 Name:	Follow-up Left Ventricular Internal Diastolic Dimension						
Coding Instructions:	: 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						
Selections:	:: (none)						
Supporting Definitions:	: (none)						
Seq. #: 10351 Name:	Follow-up Left Ventricular Internal Diastolic Dimension Not Measured						
Coding Instructions:	: Indicate if the left ventricular internal diastolic dimension in cm was not measured at follow-up.						
Target Value:	N/A						
Selections:	Selection Text Definition						
	No No						
	Yes						
Supporting Definitions:	(none)						
Seq. #: 10355 Name:	Follow-up Left Ventricular End Systolic Volume						
Coding Instructions:	Indicate the left ventricular end systolic volume in ml, documented by echocardiogram at follow-up.						
Target Value:	: The value on follow-up						

Selections: (none)



I. Follow-Up

Seq. #: 10356 Name:	Follow-up Left Ventricular End Systolic Volume Not Measured		
Coding Instructions:	Indicate if the left ventricular end systolic volume in ml was not measured at follow-up.		
Target Value:	N/A		
	Selection Text Definition		
	No		
	Yes		
Supporting Definitions:	(none)		
Seq. #: 10360 Name:	Follow-up Left Ventricular End Diastolic Volume		
Coding Instructions:	: Indicate the left ventricular end diastolic volume in ml, documented by echocardiogram at follow-up.		
Target Value:	The value on follow-up		
Selections:	(none)		
Supporting Definitions:	(none)		
Seq. #: 10361 Name:	Follow-up Left Ventricular End Diastolic Volume Not Measured		
Coding Instructions:	Indicate the left ventricular end diastolic volume in ml, documented by echocardiogram was not measured at follow-up.		
Target Value:	N/A		
_	Selection Text Definition		
Gelections.			
	No		
	Yes		
Supporting Definitions:	(none)		
Seq. #: 10365 Name:	Follow-up Tricuspid Regurgitation		
Coding Instructions:	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		
Selections:	Selection Text Definition		
	None		
	Trace/Trivial		
	Mild		
	Moderate		
	Severe		
Supporting Definitions:			



I. Follow-Up

Seq. #: 10370 Name: Left Ventricular Outflow Tract Gradient (Peak)

Coding Instructions: Indicate the peak gradient of the left ventricular outflow tract at follow-up.

Target Value: The value on follow-up

Selections: (none)

Supporting Definitions: (none)

Seq. #: 10375 Name: Systolic Anterior Motion Present

Coding Instructions: Indicate if systolic anterior motion was present at follow-up.

Target Value: The value on follow-up

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 10380 Name: Follow-Up Six Minute Walk Test Performed

Coding Instructions: Indicate whether the six minute walk test was performed at follow-up.

Target Value: Any occurrence on follow-up

Selections: Selection Text Definition

Performed

Not performed – unable to walk Not performed – cardiac reason (SOB) Not performed – patient not willing to

walk

Not performed by site

Supporting Definitions: (none)

Seq. #: 10385 Name: Follow-Up Six Minute Walk Test Date

Coding Instructions: Indicate the date the six minute walk test was performed at follow-up.

Target Value: The value on follow-up

Selections: (none)



I. Follow-Up

Seq. #: 10390 Name: Follow-Up Total Distance

Coding Instructions: Indicate the total distance, in feet, the patient walked at follow-up.

Target Value: The value on follow-up

Selections: (none)



J. Adjudication

Seq. #: 12000 Name: Adjudication Event

Coding Instructions: Indicate the event being adjudicated.

Target Value: N/A

Selections: Selection Text Definition

Ischemic Stroke (In-

hospital)

Hemorrhagic Stroke

(In-hospital)

Undetermined Stroke

(In-hospital)

TIA (In-hospital)

Aortic Valve Reintervention (In-

hospital)

Mitral Valve Re-

intervention (In-

hospital)

Ischemic Stroke (F-U)

Hemorrhagic Stroke

(F-U)

Undetermined Stroke

(F-U)

TIA (F-U)

Aortic Valve Reintervention (F-U)

Mitral Valve Re-

intervention (F-U)

Readmission - Heart

Failure (F-U)

To Be Updated in

TVT 1.3

Supporting Definitions: (none)

Seq. #: 12005 Name: Event Date

Coding Instructions: Indicate the clinical event date that occurred during any procedures or during any follow-ups

Target Value: N/A

Selections: (none)



J. Adjudication

Seq. #: 12010 Name:	Adjudication Status		
Coding Instructions:	Indicate whether the patient was alive or deceased on the date the adjudication was performed.		
Target Value:	N/A		
_	Selection Text Definition		
	Album		
	Alive Deceased		
Supporting Definitions:			
Seq. #: 12011 Name:	Adjudication Date of Death		
Coding Instructions:	Indicate the date the patient was declared dead.		
Target Value:	N/A		
Selections:	(none)		
Supporting Definitions:	(none)		
Seq. #: 12015 Name:	Date of Symptom Onset		
Coding Instructions:	Indicate the date of symptom onset of the neurologic deficit.		
Target Value:	N/A		
Selections:	(none)		
Supporting Definitions:	(none)		
Seq. #: 12020 Name:	Neurologic Deficit with Rapid Onset		
Coding Instructions:	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		
Selections:	Selection Text Definition		
	No		
	Yes		
Supporting Definitions:			



J. Adjudication

Seq. #: 12025 Name: Neurologic Deficit Clinical Presentation

Coding Instructions: Indicate the clinical presentation of the neurologic deficit.

Target Value: N/A

Selections: Selection Text Definition

Stroke/TIA An acute episode of focal or neurological dysfunction

caused by presumed brain, spinal cord, or retinal vascular injury as a result of ischemia, hemorrhage or

infarction.

Non-Stroke Neurologic deficits due to non-stroke cause such as a

brain tumor, trauma, infection, hypoglycemia, peripheral lesion, pharmacological influence.

Supporting Definitions: (none)

Seq. #: 12030 Name: Neurologic Symptom Duration >= 24 hours

Coding Instructions: Indicate if the duration of the neurologic symptoms lasted >= 24 hours.

Target Value: N/A

Selections: Selection Text Definition

No

Yes

Supporting Definitions: (none)

Seq. #: 12040 Name: Neuroimaging Performed

Coding Instructions: Indicate if neuroimaging such as CT, MRI, cerebral angiography was performed.

Target Value: N/A

aluc. N/A

Selections: Selection Text

Definition

No

Yes



J. Adjudication

Seq. #: 12045 Name:	Neuroimaging Deficit	Туре			
Coding Instructions:	s: Indicate the type of deficit found as a result of the neuroimaging study.				
Target Value:	N/A				
Selections:	Selection Text	Definition			
•	No deficit				
	Infarction				
	Hemorrhage				
	Both				
	Subarachnoid Hemorrhage				
Supporting Definitions:	(none)				
•		geon Confirmation of Diagnosis stroke was confirmed on formal consultation by a neurologist or neurosurgeon.			
Target Value:	N/A				
Selections:	Selection Text	Definition			
	No				
	Yes				
Supporting Definitions:	(none)				
Seq. #: 12056 Name:	Social/Recreational A	ctivities Impaired			
Coding Instructions:	Indicate if the neurologic deprior to the event). For example,	eficit led to an impairment in the ability to carry out social and or recreational activities (as compared to mple, the patient can no longer play bridge with friends or cannot drive.			
Target Value:	N/A				
Selections:	Selection Text	Definition			
-	No				
	Yes				
Supporting Definitions:					



J. Adjudication

Seq. #: 12057 Name: Neurocognitive Functions Essential to Patient Impaired Coding Instructions: 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 Selections: Selection Text Definition No Yes Supporting Definitions: (none) Seq. #: 12058 Name: New Aids or Assistance Required Coding Instructions: 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 Selections: Selection Text Definition No Yes Supporting Definitions: (none) Seq. #: 12060 Name: Death as a Result of Neurologic Deficit Coding Instructions: Indicate if the neurologic event resulted in death of the patient. Target Value: N/A Selections: Selection Text Definition No Yes Supporting Definitions: (none) Seq. #: 12065 Name: Stroke TIA Clinical Comments Coding Instructions: Provide information and details that may assist in assessing this stroke or TIA outcome. Target Value: N/A Selections: (none) Supporting Definitions: (none)



J. Adjudication

Seq. #: 12105 Name: Aortic Valve Re-intervention Type

Coding Instructions: Indicate the type of aortic valve re-intervention.

Target Value: N/A

Selections: Selection Text Definition

Surgical AV

Repair/Replacement
Balloon Valvuloplasty
Transcatheter AVR
Other Transcatheter

Intervention

Supporting Definitions: (none)

Seq. #: 12110 Name: Transcatheter Intervention Type

Coding Instructions: 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 replacements or AV balloon

valvuloplasties.

Target Value: N/A

Selections: (none)

Supporting Definitions: (none)

Seq. #: 12115 Name: Aortic Valve Re-intervention Primary Indication

Coding Instructions: 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

Selections: Selection Text Definition

Aortic insufficiency

Aortic stenosis

Device migration

Device fracture

Endocarditis

Valve thrombosis

Other



J. Adjudication

Seq. #: 12120 Name: Aortic Valve Re-intervention Aortic Regurtitation Severity Coding Instructions: 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 Selections: Selection Text Definition None Trace/Trivial Mild Moderate Severe Supporting Definitions: (none) Seq. #: 12125 Name: Aortic Valve Re-intervention Aortic Regurtitation Perivalvular Severity Coding Instructions: Indicate the highest severity of paravalvular leak prior to the aortic valve re-intervention. Target Value: N/A Selections: Selection Text Definition None Mild Moderate Severe Not Documented Supporting Definitions: (none) Seq. #: 12130 Name: Aortic Valve Re-intervention Aortic Regurtitation Valvular Severity Coding Instructions: Indicate the highest severity of central leak prior to the aortic valve re-intervention. Target Value: N/A Selections: Selection Text Definition None Mild Moderate Severe Not Documented



J. Adjudication

Seq. #: 12135 Name: Aortic Valve Re-intervention Aortic Stenosis Severity

Coding Instructions: Indicate the highest severity of aortic stenosis prior to the aortic valve re-intervention.

Target Value: N/A

Selections: Selection Text Definition

Possible stenosis

VARC criteria for possible, or moderate, aortic valve stenosis includes any of the following in conditions of normal or near normal stroke volume (50-70 ml):

- Peak velocity*: 3-4 m/s; 1.
- Mean gradient*: 20-35 mm Hg; 2.
- 3. Doppler velocity index 0.29-0.25;
- Effective orifice area: 1.2-0.8 cm2; 4.
- Contour of the jet velocity through the prosthetic valve: triangular to intermediate;
- 6. Acceleration time: 80-100 ms

* Note: These parameters are more affected by flow, including concomitant aortic regurgitation.

Significant stenosis

VARC criteria for significant, or severe, aortic valve stenosis includes any of the following in conditions of normal or near normal stroke volume (50-70 ml):

- Peak velocity*: >4 m/s; Mean gradient*: >35 mm Hg; 2.
- Doppler velocity index <0.25; 3.
- Effective orifice area: <0.80 cm2;
- Contour of the jet velocity through the prosthetic valve: rounded symmetrical contour;
- Acceleration time: >100 ms
- * Note: These parameters are more affected by flow, including concomitant aortic regurgitation.

Source: Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation Clinical Trials (JACC, 2011, vol 57, No 3)

Supporting Definitions: (none)

Seq. #: 12140 Name: Aortic Valve Re-intervention Other Indication

Coding Instructions: Specify the other indication for the aortic valve re-intervention.

Target Value: N/A

Selections: (none)



J. Adjudication

Seq. #: 12145 Name: Aortic Valve Re-intervention Clinical Comments

Coding Instructions: Provide information and details that may assist in assessing this repeat intervention.

Target Value: N/A

Selections: (none)

Supporting Definitions: (none)

Seq. #: 12200 Name: Mitral Valve Re-intervention Type

Coding Instructions: Indicate the type of mitral valve re-intervention.

Target Value: N/A

Selections: Selection Text Definition

Surgical mitral valve

repair

Surgical mitral valve replacement

Transcatheter mitral

valve repair

raire iepai

Transcatheter mitral valve replacement
Leaflet clip procedure

Other transcatheter

intervention

Supporting Definitions: (none)

Seq. #: 12205 Name: Other Type

Coding Instructions: 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

.

Selections: (none)



J. Adjudication

Seq. #: 12210 Name: Mitral Valve Re-intervention Indication

Coding Instructions: 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

Selections: Selection Text Definition

Mitral regurgitation

Mitral stensis

Mitral valve injury

Device migration

Device embolization

Device fracture

Endocarditis

Device thrombosis

Other

Supporting Definitions: (none)

Seq. #: 12215 Name: Mitral Valve Re-intervention Other Indication

Coding Instructions: Specify the other indication for the mitral valve re-intervention.

Target Value: N/A

Selections: (none)

Supporting Definitions: (none)

Seg. #: 12220 Name: Mitral Valve Re-intervention Clinical Comments

Coding Instructions: Provide information and details that may assist in assessing this repeat intervention.

Target Value: N/A

Selections: (none)



J. Adjudication

Seq. #: 12225 Name: Hospitalization>=24 Hours Coding Instructions: 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 Selections: Selection Text Definition No Yes Information not available Supporting Definitions: (none) Seq. #: 12230 Name: Clinical Signs or Sx of Heart Failure Coding Instructions: 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 Selections: Selection Text Definition No Yes Information not available Supporting Definitions: (none) Seq. #: 12335 Name: IV or Invasive Treatment Required Coding Instructions: 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 Selections: Selection Text Definition No Yes Information not available Supporting Definitions: (none)



Z. Administration

Seq. #: 1000 Name: Participant ID

Coding Instructions: Indicate the participant ID of the submitting facility.

Target Value: N/A Selections: (none)

Supporting Definitions: Participant ID:

Participant ID is a unique number assigned to each database participant. A database participant is defined as one entity that signs a Participation Agreement, submits one data submission file to the harvest, and receives one report on their data.

Each participant's data if submitted to harvest must be in one data submission file for a quarter. If one participant keeps their data in more than one file (e.g. at two sites), then the data must be combined into a single data submission to the system to file for the harvest. If two or more participants share a single purchased software, and enter cases into one database, then the data must be

exported into different data submission files, one for each participant ID.

Source: NCDR

Seq. #: 1010 Name: Participant Name

Coding Instructions: Indicate the full name of the facility.

Target Value: N/A Selections: (none)

Supporting Definitions: Participant Name:

Indicate the full name of the facility where the procedure was performed. Values should be full, official hospital names with no

abbreviations or variations in spelling.

Source: NCDR

Seg. #: 1020 Name: Time Frame of Data Submission

Coding Instructions: Indicate the time frame of data included in the data submission. Format: YYYYQQ. e.g., 2006Q4

Target Value: N/A Selections: (none)

Supporting Definitions: (none)

Seq. #: 1040 Name: Transmission Number

Coding Instructions: This is a unique number created, and automatically inserted by the software into extract file. It identifies the number of times the

software has created data submission files. The transmission number should be incremented by one every time the data

submission files are exported. The transmission number should never be repeated.

Target Value: N/A Selections: (none)



Z. Administration

Seq. #: 1050 Name: Vendor Identifier

Coding Instructions: Vendor identification (agreed upon by mutual selection between the vendor and the NCDR) to identify software vendor. This is

entered into the schema automatically by vendor software. Vendors must use consistent name identification across sites. Changes

to vendor name identification must be approved by the NCDR.

Target Value: N/A
Selections: (none)

Supporting Definitions: (none)

Seq. #: 1060 Name: Vendor Software Version

Coding Instructions: Vendor's software product name and version number identifying the software which created this record (assigned by vendor).

Vendor controls the value in this field. This is entered into the schema automatically by vendor software.

Target Value: N/A **Selections:** (none)

Supporting Definitions: (none)

Seq. #: 1070 Name: Registry Identifier

Coding Instructions: The NCDR registry identifier describes the data registry to which these records apply. It is implemented in the software at the time

the data is collected and records are created. This is entered into the schema automatically by software.

Target Value: N/A **Selections:** (none)

Supporting Definitions: (none)

Seq. #: 1080 Name: Registry Version

Coding Instructions: Registry version describes the version number of the Data Specifications / Dictionary, to which each record conforms. It identifies

which fields should have data, and what are the valid data for each field. It is the version implemented in the software at the time

the data is collected and the records are created. This is entered into the schema automatically by software.

Target Value: N/A

Selections: (none)



Z. Administration

Seq. #: 1095 Name: Submission Type

Coding Instructions: Indicate if the data contained in the harvest/data file contains either standard patient episode of care records (arrival date to

discharge only) or if it contains patient follow-up records

A transmission file with all episode of care records (from Arrival to Discharge only) is considered a "Base Registry Record".

A file with patient follow-up records (any follow-up assessments performed during the quarter selected) is considered a "Follow-Up Record".

Target Value: N/A

Selections:	Selection Text	Definition
	Episode of Care Records Only	Contains all eligible proce

patient and episode of care records with edures with a Discharge Date (Seq Num 9045) in the selected timeframe.

An Episode of Care is defined as a patient's admission/arrival to the facility performing the procedure(s), including any symptoms or medical history prior to arrival, ending at discharge or death

Follow-Up Records Only

Contains all patient records with at least one Followup Assessment performed (Seq Num 10000) in the

selected timeframe.