



Release Notes: Project Not Published

Published: Project Not Published

Selection Definitions Updates:

Sequence #	Element Name
12153	Intra or Post Procedure Events
12933	Follow-up Event Name
14312	Adjudication Event
14385	Adjudication Event

History of Updates:

Published Date	Data Element Updates	Document Version
03/12/2026	13815	2026Q1
04/02/2026	7066,13500,11000	2026Q2
02/19/2026	11006	2026Q1
01/08/2026	2075	2026Q1
10/23/2025	12153,14312	2025Q4
10/01/2025	13740,13815	2025Q4
07/31/2025	7066	2025Q3
07/10/2025	7423	2025Q3
02/13/2025	12933,14385	2025Q1
04/01/2025	2070,2071,2073,2072,2074,2076,14535	2025Q2
11/26/2024	7066	2024Q4

Section: Demographics		Parent: Root
Element: 2000 Last Name		Technical Specification Code: 1000142463 Code System Name: ACC NCDR Short Name: LastName Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: Yes Data Type: LN Precision: 50 Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Element: 2010 First Name		Technical Specification Code: 1000142463 Code System Name: ACC NCDR Short Name: FirstName Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: Yes Data Type: FN Precision: 50 Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Element: 2020 Middle Name		Technical Specification Code: 1000142463 Code System Name: ACC NCDR Short Name: MidName Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: Yes Data Type: MN Precision: 50 Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User



Section: Demographics

Parent: Root

Element: 2050		Birth Date	Technical Specification
Coding Instruction:		Indicate the patient's date of birth.	Code: 1000142447
Target Value:		The value on arrival at this facility	Code System: ACC NCDR
			Name:
			Short Name: DOB
			Missing Data: Report
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: Yes
			Data Type: DT
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
Element: 2030		SSN	Technical Specification
Coding Instruction:		Indicate the patient's United States Social Security Number (SSN).	Code: 2.16.840.1.113883.4.1
		Note(s):	Code System: United States Social Security
		If the patient does not have a US Social Security Number (SSN), leave blank and check 'SSN NA'.	Name: Number (SSN)
Target Value:		The value on arrival at this facility	Short Name: SSN
Vendor Instruction:		Patient's SSN must be 9 numeric characters long	Missing Data: Report
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: Yes
			Data Type: ST
			Precision: 9
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 2031 SSN N/A
			Operator: Equal
			Value: No (or Not Answered)
Element: 2031		SSN N/A	Technical Specification
Coding Instruction:		Indicate if the patient does not have a United States Social Security Number (SSN).	Code: 2.16.840.1.113883.4.1
Target Value:		The value on arrival at this facility	Code System: United States Social Security
			Name: Number (SSN)
			Short Name: SSNNA
			Missing Data: Report
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: Yes
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User



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Element: 2040	Patient ID	Technical Specification
Coding Instruction:	Indicate the number created and automatically inserted by the software that uniquely identifies this patient.	Code: 2.16.840.1.113883.3.3478.4.842
	Note(s): Once assigned to a patient at the participating facility, this number will never be changed or reassigned to a different patient. If the patient returns to the same participating facility or for follow up, they will receive this same unique patient identifier.	Code System Name: ACC NCDR
	Target Value: The value on arrival at this facility	Short Name: NCDRPatientID
		Missing Data: Illegal
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: Yes
		Is Base Element: Yes
		Is Followup Element: Yes
		Data Type: NUM
		Precision: 9
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range: 1 - 999,999,999
		Data Source: Automatic

Element: 2045	Other ID	Technical Specification
Coding Instruction:	Indicate an optional patient identifier, such as medical record number, that can be associated with the patient.	Code: 2.16.840.1.113883.3.3478.4.843
	Target Value: N/A	Code System Name: ACC NCDR
		Short Name: OtherID
		Missing Data: No Action
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: Yes
		Data Type: ST
		Precision: 50
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 2060	Sex	Technical Specification
Coding Instruction:	Indicate the patient's sex at birth.	Code: 1000142448
	Target Value: The value on arrival at this facility	Code System Name: ACC NCDR
		Short Name: Sex
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Person Sex - 1.3.6.1.4.1.19376.1.4.1.6.5.19

Selection	Definition	Source	Code	Code System Name
Male			M	HL7 Administrative Gender
Female			F	HL7 Administrative Gender



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Element: 2065		Technical Specification
Patient Zip Code		
Coding Instruction: Indicate the patient's United States Postal Service zip code of their primary residence.		Code: 1000142449
Note(s): If the patient does not have a U.S. residence, or is homeless, leave blank and check 'Zip Code NA'.		Code System Name: ACC NCDR
Target Value: The value on arrival at this facility		Short Name: ZipCode
Vendor Instruction: Patient's zip code must be 5 numeric characters long.		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: Yes
		Data Type: ST
		Precision: 5
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 2066 Zip Code N/A
		Operator: Equal
		Value: No (or Not Answered)

Element: 2066		Technical Specification
Zip Code N/A		
Coding Instruction: Indicate if the patient does not have a United States Postal Service zip code.		Code: 1000142449
Note(s): This includes patients who do not have a U.S. residence or are homeless.		Code System Name: ACC NCDR
Target Value: The value on arrival at this facility		Short Name: ZipCodeNA
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: Yes
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 2070		Technical Specification
Race - White		
Coding Instruction: Indicate if the patient is White as determined by the patient/family.		Code: 2106-3
Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one.		Code System Name: HL7 Race
Target Value: The value on arrival at this facility		Short Name: RaceWhite
Supporting Definition: White		Missing Data: Report
Individuals with origins in any of the original peoples of Europe, including, for example, English, German, Irish, Italian, Polish, and Scottish.		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



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Element: 2071		Technical Specification
Race - Black/African American		
Coding Instruction:	Indicate if the patient is Black or African American as determined by the patient/family.	Code: 2054-5
	Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one.	Code System Name: HL7 Race
Target Value:	The value on arrival at this facility	Short Name: RaceBlack
Supporting Definition:	Black or African American Individuals with origins in any of the Black racial groups of Africa, including, for example, African American, Jamaican, Haitian, Nigerian, Ethiopian, and Somali. Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 2073		Technical Specification
Race - American Indian/Alaskan Native		
Coding Instruction:	Indicate if the patient is American Indian or Alaskan Native as determined by the patient/family.	Code: 1002-5
	Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one.	Code System Name: HL7 Race
Target Value:	The value on arrival at this facility	Short Name: RaceAmIndian
Supporting Definition:	American Indian or Alaska Native Individuals with origins in any of the original peoples of North, Central, and South America, including, for example, Navajo Nation, Blackfeet Tribe of the Blackfeet Indian Reservation of Montana, Native Village of Barrow Inupiat Traditional Government, Nome Eskimo Community, Aztec, and Maya. Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 2072		Technical Specification
Race - Asian		
Coding Instruction:	Indicate if the patient is Asian as determined by the patient/family.	Code: 2028-9
	Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one.	Code System Name: HL7 Race
Target Value:	The value on arrival at this facility	Short Name: RaceAsian
Supporting Definition:	Asian Individuals with origins in any of the original peoples of Central or East Asia, Southeast Asia, or South Asia, including, for example, Chinese, Asian Indian, Filipino, Vietnamese, Korean, and Japanese. Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



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Element: 2080		Technical Specification
Coding Instruction: Indicate if the patient is Asian Indian 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 Supporting Definition: Asian Indian Having origins in any of the original peoples of India. Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity		Code: 2029-7 Code System Name: HL7 Race Short Name: RaceAsianIndian Missing Data: Report Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Element: 2081		Technical Specification
Coding Instruction: Indicate if the patient is Chinese 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 Supporting Definition: Asian - Chinese Having origins in any of the original peoples of China. Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity		Code: 2034-7 Code System Name: HL7 Race Short Name: RaceChinese Missing Data: Report Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Element: 2082		Technical Specification
Coding Instruction: Indicate if the patient is Filipino 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 Supporting Definition: Asian - Filipino Having origins in any of the original peoples of the Philippines. Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity		Code: 2036-2 Code System Name: HL7 Race Short Name: RaceFilipino Missing Data: Report Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User



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Element: 2083		Technical Specification
Race - Japanese		
Coding Instruction: Indicate if the patient is Japanese as determined by the patient/family.		Code: 2039-6
Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one.		Code System Name: HL7 Race
Target Value: The value on arrival at this facility		Short Name: RaceJapanese
Supporting Definition: Asian - Japanese Having origins in any of the original peoples of Japan.		Missing Data: Report
Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Element: 2084		Technical Specification
Race - Korean		
Coding Instruction: Indicate if the patient is Korean as determined by the patient/family.		Code: 2040-4
Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one.		Code System Name: HL7 Race
Target Value: The value on arrival at this facility		Short Name: RaceKorean
Supporting Definition: Asian - Korean Having origins in any of the original peoples of Korea.		Missing Data: Report
Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Element: 2085		Technical Specification
Race - Vietnamese		
Coding Instruction: Indicate if the patient is Vietnamese as determined by the patient/family.		Code: 2047-9
Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one.		Code System Name: HL7 Race
Target Value: The value on arrival at this facility		Short Name: RaceVietnamese
Supporting Definition: Asian - Vietnamese Having origins in any of the original peoples of Viet Nam.		Missing Data: Report
Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



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Element: 2086		Technical Specification
Race - Other Asian		
Coding Instruction: Indicate if the patient is of Other Asian descent as determined by the patient/family.		Code: 100001130
Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one.		Code System Name: ACC NCDR
Target Value: The value on arrival at this facility		Short Name: RaceAsianOther
Supporting Definition: Asian - Other Asian Having origins in any of the original peoples elsewhere in Asia.		Missing Data: Report
Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 2074		Technical Specification
Race - Native Hawaiian/Pacific Islander		
Coding Instruction: Indicate if the patient is Native Hawaiian or Pacific Islander as determined by the patient/family.		Code: 2076-8
Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one.		Code System Name: HL7 Race
Target Value: The value on arrival at this facility		Short Name: RaceNatHaw
Supporting Definition: Native Hawaiian or Pacific Islander Individuals with origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands, including, for example, Native Hawaiian, Samoan, Chamorro, Tongan, Fijian, and Marshallese.		Missing Data: Report
Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 2090		Technical Specification
Race - Native Hawaiian		
Coding Instruction: Indicate if the patient is Native Hawaiian as determined by the patient/family.		Code: 2079-2
Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one.		Code System Name: HL7 Race
Target Value: The value on arrival at this facility		Short Name: RaceNativeHawaii
Supporting Definition: Native Hawaiian Having origins in any of the original peoples of the islands of Hawaii.		Missing Data: Report
Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



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Element: 2091		Technical Specification
Race - Guamanian or Chamorro		
Coding Instruction: Indicate if the patient is Guamanian or Chamorro 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.		Code: 2086-7
Target Value: The value on arrival at this facility		Code System Name: HL7 Race
Supporting Definition: Native Hawaiian/Pacific Islander - Guamanian or Chamorro Having origins in any of the original peoples of the Mariana Islands or the island of Guam.		Short Name: RaceGuamChamorro
Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 2092		Technical Specification
Race - Samoan		
Coding Instruction: Indicate if the patient is Samoan 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.		Code: 2080-0
Target Value: The value on arrival at this facility		Code System Name: HL7 Race
Supporting Definition: Native Hawaiian/Pacific Islander - Samoan Having origins in any of the original peoples of the island of the Samoa.		Short Name: RaceSamoan
Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 2093		Technical Specification
Race - Other Pacific Islander		
Coding Instruction: Indicate if the patient is 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.		Code: 2500-7
Target Value: The value on arrival at this facility		Code System Name: HL7 Race
Supporting Definition: Native Hawaiian/Pacific Islander - Other Pacific Island Having origins in any of the original peoples of any other island in the Pacific.		Short Name: RacePacificIslandOther
Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



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Element: 2075		Technical Specification
Race - Middle Eastern/North African		
Coding Instruction:	Indicate if the patient is Middle Eastern or North African as determined by the patient/family.	Code: 2118-8
Target Value:	The value on arrival at this facility	Code System HL7 Race
Supporting Definition:	Middle Eastern Individuals with origins in any of the original peoples of the Middle East or North Africa, including, for example, Lebanese, Iranian, Egyptian, Syrian, Iraqi, and Israeli. Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity	Name: RaceMiddleEastern Short Name: RaceMiddleEastern Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Usual Range: Valid Range: Data Source: User
Element: 2076		Technical Specification
Hispanic or Latino Ethnicity		
Coding Instruction:	Indicate if the patient is of Hispanic or Latino ethnicity as determined by the patient/family. Note(s): If the patient has multiple hispanic or latin ethnicity, specify them using the other ethnicity selections in addition to this one.	Code: 2135-2
Target Value:	The value on arrival at this facility	Code System HL7 Ethnicity
Supporting Definition:	Hispanic or Latino Includes individuals of Mexican, Puerto Rican, Salvadoran, Cuban, Dominican, Guatemalan, and other Central or South American or Spanish culture or origin. Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity	Name: HispOrig Short Name: HispOrig Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Element: 2100		Technical Specification
Hispanic Ethnicity Type - Mexican, Mexican-American, Chicano		
Coding Instruction:	Indicate if the patient is Mexican, Mexican - American, or Chicano as determined by the patient/family. Note(s): If the patient has multiple hispanic or latin ethnicity, specify them using the other ethnicity selections in addition to this one.	Code: 2148-5
Target Value:	The value on arrival at this facility	Code System HL7 Ethnicity
Supporting Definition:	Hispanic Ethnicity - Mexican/Mexican American/Chicano Having origins in any of the original peoples of Mexico. Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity	Name: HispEthnicityMexican Short Name: HispEthnicityMexican Missing Data: Report Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User



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Element: 2101	Hispanic Ethnicity Type - Puerto Rican	Technical Specification
Coding Instruction: Indicate if the patient is Puerto Rican as determined by the patient/family. Note(s): If the patient has multiple hispanic or latin ethnicity, specify them using the other ethnicity selections in addition to this one. Target Value: The value on arrival at this facility Supporting Definition: Hispanic Ethnicity - Puerto Rican Having origins in any of the original peoples of Puerto Rico. Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity		Code: 2180-8 Code System Name: HL7 Ethnicity Short Name: HispEthnicityPuertoRico Missing Data: Report Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Element: 2102	Hispanic Ethnicity Type - Cuban	Technical Specification
Coding Instruction: Indicate if the patient is Cuban as determined by the patient/family. Note(s): If the patient has multiple hispanic or latin ethnicity, specify them using the other ethnicity selections in addition to this one. Target Value: The value on arrival at this facility Supporting Definition: Hispanic Ethnicity - Cuban Having origins in any of the original peoples of Cuba. Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity		Code: 2182-4 Code System Name: HL7 Ethnicity Short Name: HispEthnicityCuban Missing Data: Report Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Element: 2103	Hispanic Ethnicity Type - Other Hispanic, Latino or Spanish Origin	Technical Specification
Coding Instruction: Indicate if the patient is another Hispanic, Latino, or Spanish origin as determined by the patient/family. Note(s): If the patient has multiple hispanic or latin ethnicity, specify them using the other ethnicity selections in addition to this one. Target Value: The value on arrival at this facility Supporting Definition: Hispanic Ethnicity - Other Hispanic/Latino/Spanish Origin Having origins in any of the originals peoples in other Hispanic, Latino or Spanish territories. Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity		Code: 100001131 Code System Name: ACC NCDR Short Name: HispEthnicityOtherOrigin Missing Data: Report Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User



Section: Demographics

Parent: Root

Element: 14780		Original Patient ID	Technical Specification
Coding Instruction:		This is the ID generated when the patient was first submitted to the STS/ACC TVT Registry. This field will be provided to vendors as part of the participant vendor migration process for all patients currently in the Registry. For patients submitted to the STS/ACC TVT Registry the first time by a vendor, it should be populated with the NCDR Patient ID assigned by the vendor.	Code: 112000002061
			Code System Name: ACC NCDR
			Short Name: OrigPtID
			Missing Data: Illegal
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: Yes
			Data Type: NUM
			Precision: 9
			Selection Type: Single
			Unit of Measure:
			Default Value:
			Usual Range:
			Valid Range:
			Data Source: Automatic
Element: 14781		Original NCDR Vendor	Technical Specification
Coding Instruction:		This is the vendor identifier of the vendor who first submitted the patient to the STS/ACC TVT Registry. This field will be provided to vendors as part of the vendor migration process for all patients currently in the registry. For patients submitted to the STS/ACC TVT Registry for the first time by a vendor, it should be populated with the Vendor Identifier of the submitting vendor.	Code: 112000002062
			Code System Name: ACC NCDR
			Short Name: OrigNCDRVen
			Missing Data: Illegal
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: Yes
			Data Type: ST
			Precision: 15
			Selection Type: Single
			Unit of Measure:
			Default Value:
			Usual Range:
			Valid Range:
			Data Source: Automatic



Section: Episode Information

Parent: Episode of Care

Element: 2999		Episode Unique Key	Technical Specification
Coding Instruction:		Indicate the unique key associated with each patient episode record as assigned by the EMR/EHR or your software application.	Code: 2.16.840.1.113883.3.3478.4.855
Target Value:		N/A	Code System Name: ACC NCDR
			Short Name: EpisodeKey
			Missing Data: Illegal
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: Yes
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: ST
			Precision: 50
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: Automatic

Element: 3001		Arrival Date and Time	Technical Specification
Coding Instruction:		Indicate the date and time the patient arrived at your facility.	Code: 1000142450
		Note(s): Indicate the time (hours:minutes) using the military 24-hour clock, beginning at midnight (00:00 hours).	Code System Name: ACC NCDR
Target Value:		N/A	Short Name: ArrivalDateTime
Vendor Instruction:		Arrival Date and Time (3001) must be Less than or Equal to Procedure Start Date and Time (7000)	Missing Data: Illegal
		Arrival Date and Time (3001) must be Less than or Equal to Discharge Date (10100)	Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Patient must be at least 18 years old at the time of Arrival Date and Time (3001)	Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: TS
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User

Element: 3005		Health Insurance	Technical Specification
Coding Instruction:		Indicate if the patient has health insurance.	Code: 63513-6
Target Value:		The value on arrival at this facility	Code System Name: LOINC
			Short Name: HealthIns
			Missing Data: Report
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User



Section: Episode Information

Parent: Episode of Care

Element: 3010 Health Insurance Payment Source		Technical Specification
Coding Instruction: Indicate the patient's health insurance payment type.		Code: 100001072
Note(s): If the patient has multiple insurance payors, select all payors.		Code System Name: ACC NCDR
Target Value: The value on arrival at this facility		Short Name: HIPS
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Multiple
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 3005 Health Insurance		
Operator: Equal		
Value: Yes		

Payor Category - 1.3.6.1.4.1.19376.1.4.1.6.5.5

Selection	Definition	Source	Code	Code System Name
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. A health maintenance organization (HMO) is considered private health insurance.		5	PHDSC
Medicare Fee-For-Service	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.		1	PHDSC
Medicare Advantage			112000002025	ACC NCDR
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.		2	PHDSC
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).		31	PHDSC
State-Specific Plan (non-Medicaid)	State Specific Plans - 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.		36	PHDSC
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.		33	PHDSC
Non-US Insurance	Non-US insurance refers to individuals with a payor that does not originate in the United States.		100000812	ACC NCDR



Section: Episode Information

Parent: Episode of Care

Element: 12846	Medicare Beneficiary Identifier	Technical Specification
Coding Instruction: Indicate the patient's Medicare Beneficiary Identifier (MBI).	Note(s): Enter the Medicare Beneficiary Identifier (MBI) for those patients insured by Medicare. Patients without Medicare will not have a MBI.	Code: 2.16.840.1.113883.4.927 Code System: Centers for Medicare & Name: Medicaid Services Short Name: MBI Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: ST Precision: 11 Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Target Value: The value on arrival at this facility		
Supporting Definition: Medicare Beneficiary Identifier	The Medicare Access and CHIP Reauthorization Act (MACRA) of 2015, requires us to remove Social Security Numbers (SSNs) from all Medicare cards by April 2019. A new Medicare Beneficiary Identifier (MBI) will replace the SSN-based Health Insurance Claim Number (HICN) on the new Medicare cards for Medicare transactions like billing, eligibility status, and claim status. Source: https://www.cms.gov/Medicare/New-Medicare-Card/index.html	

Element: 13803	Residence	Technical Specification
Coding Instruction: Indicate the primary residence of the patient prior to arrival. If the primary residence is not available, code not documented.		Code: 112000001506 Code System: ACC NCDR Name: Short Name: Residence Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: CD Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Target Value: The value on arrival at this facility		
		Parent/Child Validation
		Element: 13804 Residence Not Documented Operator: Equal Value: No (or Not Answered)

Residence - 1.3.6.1.4.1.19376.1.4.1.6.5.562

Selection	Definition	Source	Code	Code System Name
Home with No Health Aid	The patient lives at home with no health-aid (this includes living in senior living facilities with no assistance).		112000001507	ACC NCDR
Home with Health Aid	The patient lives at home with health-aid (this includes living in senior living facilities with assistance).		112000001508	ACC NCDR
Long Term Care	The patient lives in a long-term care facility that provides the person's health or personal care needs during a short or long period of time.	National Institute of Aging at the National Institutes of Health	42665001	SNOMED CT
Other			100000351	ACC NCDR



Section: Episode Information

Parent: Episode of Care

Element: 13804	Residence Not Documented	Technical Specification
Coding Instruction:	Indicate if the primary residence of the patient prior to arrival was not documented.	Code: 112000001506
Target Value:	N/A	Code System Name: ACC NCDR
		Short Name: ResidenceND
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 3020	Patient Enrolled in Research Study	Technical Specification
Coding Instruction:	Indicate if the patient is enrolled in an ongoing ACC - NCDR research study related to this registry.	Code: 100001095
Target Value:	Any occurrence between arrival at this facility and discharge	Code System Name: ACC NCDR
Supporting Definition:	Patient Enrolled in Research Study A clinical or research study is one in which participants are assigned to receive one or more interventions (or no intervention) so that researchers can evaluate the effects of the interventions on biomedical or health-related outcomes. The assignments are determined by the study protocol. Participants may receive diagnostic, therapeutic, or other types of interventions. Source: Clinicaltrials.gov Glossary of Common Site Terms retrieved from http://clinicaltrials.gov/ct2/about-studies/glossary#interventional-study	Short Name: EnrolledStudy
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 3035	Patient Restriction	Technical Specification
Coding Instruction:	Indicate if the patient requested for their information not to be used for any research or studies for the associated episode of care.	Code: 100000922
	Note(s): Documentation must be found in the patient record to support the request of removal of their information.	Code System Name: ACC NCDR
Target Value:	The value on arrival at this facility	Short Name: PtRestriction
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



Section: Episode Information

Parent: Episode of Care

Element: 13171		TVT Pathway	Technical Specification	
Coding Instruction:		Indicate all TVT Registry procedures performed during this episode of care.	Code:	112000001167
Target Value:		The value between arrival at this facility and discharge	Code System Name:	ACC NCDR
			Short Name:	TVTPathway
			Missing Data:	Illegal
			Harvested:	Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier:	No
			Is Base Element:	Yes
			Is Followup Element:	No
			Data Type:	CD
			Precision:	
			Selection Type:	Multiple
			Unit of Measure:	
			Default Value:	Null
			Usual Range:	
			Valid Range:	
			Data Source:	User

Transcatheter Valve Therapy Pathway - 1.3.6.1.4.1.19376.1.4.1.6.5.450

Selection	Definition	Source	Code	Code System Name
TAVR	A TVT pathway where the patient underwent a transcatheter aortic valve replacement during the current episode of care.		112000001168	ACC NCDR
TMVr	A TVT Pathway where the patient underwent a transcatheter mitral valve repair during the current episode of care.		112000001169	ACC NCDR
TMVR	A TVT Pathway where the patient underwent a transcatheter mitral valve replacement during the current episode of care.		112000001170	ACC NCDR
Tricuspid Valve Procedure	A TVT Pathway where the patient underwent a transcatheter tricuspid valve repair or replacement procedure during the current episode of care.		112000001171	ACC NCDR



Section: Admitting Providers

Parent: Episode Information

Element: 3050		Admitting Provider Last Name	Technical Specification
Coding Instruction:		Indicate the last name of the admitting provider.	Code: 1000142451
		Note(s): If the name exceeds 50 characters, enter the first 50 characters only.	Code System Name: ACC NCDR
		The completion of this data element is voluntary and at the discretion of your facility. NCDR will use the data to provide reporting at the physician level, which may assist physicians with demonstrating value based care as well as support your facility's engagement in quality improvement efforts. If completed, NCDR will defer to your facility's determination of assigning Admitting, Attending, and Discharging Provider roles, as supported by the patient medical record.	Short Name: AdmLName
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: LN
			Precision: 50
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
		Target Value: The value on arrival at this facility	

Element: 3051		Admitting Provider First Name	Technical Specification
Coding Instruction:		Indicate the first name of the admitting provider.	Code: 1000142451
		Note(s): If the name exceeds 50 characters, enter the first 50 characters only.	Code System Name: ACC NCDR
		The completion of this data element is voluntary and at the discretion of your facility. NCDR will use the data to provide reporting at the physician level, which may assist physicians with demonstrating value based care as well as support your facility's engagement in quality improvement efforts. If completed, NCDR will defer to your facility's determination of assigning Admitting, Attending, and Discharging Provider roles, as supported by the patient medical record.	Short Name: AdmFName
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: FN
			Precision: 50
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
		Target Value: The value on arrival at this facility	

Element: 3052		Admitting Provider Middle Name	Technical Specification
Coding Instruction:		Indicate the middle name of the admitting provider.	Code: 1000142451
		Note(s): It is acceptable to specify the middle initial.	Code System Name: ACC NCDR
		If there is no middle name given, leave field blank.	Short Name: AdmMName
		If there are multiple middle names, enter all of the middle names sequentially.	Missing Data: Report
		If the name exceeds 50 characters, enter the first 50 letters only.	Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		The completion of this data element is voluntary and at the discretion of your facility. NCDR will use the data to provide reporting at the physician level, which may assist physicians with demonstrating value based care as well as support your facility's engagement in quality improvement efforts. If completed, NCDR will defer to your facility's determination of assigning Admitting, Attending, and Discharging Provider roles, as supported by the patient medical record.	Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: MN
			Precision: 50
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
		Target Value: The value on arrival at this facility	



Section: Admitting Providers

Parent: Episode Information

Element: 3053		Admitting Provider NPI	Technical Specification
Coding Instruction:		Indicate the National Provider Identifier (NPI) of the provider that admitted the patient. NPI's, assigned by the Centers for Medicare and Medicaid Services (CMS), are used to uniquely identify physicians for Medicare billing purposes.	Code: 1000142451
		Note(s): The completion of this data element is voluntary and at the discretion of your facility. NCDR will use the data to provide reporting at the physician level, which may assist physicians with demonstrating value based care as well as support your facility's engagement in quality improvement efforts. If completed, NCDR will defer to your facility's determination of assigning Admitting, Attending, and Discharging Provider roles, as supported by the patient medical record.	Code System Name: ACC NCDR
			Short Name: AdmNPI
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: NUM
			Precision: 10
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
Target Value:		The value on arrival at this facility	



Section: Attending Providers

Parent: Episode Information

Element: 3055		Attending Provider Last Name	Technical Specification
Coding Instruction:		Indicate the last name of the attending provider.	Code: 1000142452
		Note(s): If the name exceeds 50 characters, enter the first 50 characters only.	Code System Name: ACC NCDR
		The completion of this data element is voluntary and at the discretion of your facility. NCDR will use the data to provide reporting at the physician level, which may assist physicians with demonstrating value based care as well as support your facility's engagement in quality improvement efforts. If completed, NCDR will defer to your facility's determination of assigning Admitting, Attending, and Discharging Provider roles, as supported by the patient medical record.	Short Name: AttLName
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: LN
			Precision: 50
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
Target Value:		All values between arrival at this facility and discharge	

Element: 3056		Attending Provider First Name	Technical Specification
Coding Instruction:		Indicate the first name of the attending provider.	Code: 1000142452
		Note(s): If the name exceeds 50 characters, enter the first 50 characters only.	Code System Name: ACC NCDR
		The completion of this data element is voluntary and at the discretion of your facility. NCDR will use the data to provide reporting at the physician level, which may assist physicians with demonstrating value based care as well as support your facility's engagement in quality improvement efforts. If completed, NCDR will defer to your facility's determination of assigning Admitting, Attending, and Discharging Provider roles, as supported by the patient medical record.	Short Name: AttFName
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: FN
			Precision: 50
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
Target Value:		All values between arrival at this facility and discharge	
Vendor Instruction:		An Attending Provider - combination First Name (3056), Last Name (3055) and NPI (3058) - may only be entered/selected once	

Element: 3057		Attending Provider Middle Name	Technical Specification
Coding Instruction:		Indicate the middle name of the attending provider.	Code: 1000142452
		Note(s): It is acceptable to specify the middle initial.	Code System Name: ACC NCDR
		If there is no middle name given, leave field blank.	Short Name: AttMName
		If there are multiple middle names, enter all of the middle names sequentially.	Missing Data: Report
		If the name exceeds 50 characters, enter the first 50 letters only.	Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		The completion of this data element is voluntary and at the discretion of your facility. NCDR will use the data to provide reporting at the physician level, which may assist physicians with demonstrating value based care as well as support your facility's engagement in quality improvement efforts. If completed, NCDR will defer to your facility's determination of assigning Admitting, Attending, and Discharging Provider roles, as supported by the patient medical record.	Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: MN
			Precision: 50
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
Target Value:		All values between arrival at this facility and discharge	



Section: Attending Providers

Parent: Episode Information

Element: 3058		Attending Provider NPI	Technical Specification
Coding Instruction:		Indicate the National Provider Identifier (NPI) of the provider that will be listed as the physician of record during the hospitalization. NPI's, assigned by the Centers for Medicare and Medicaid Services (CMS), are used to uniquely identify physicians for Medicare billing purposes.	Code: 1000142452
			Code System Name: ACC NCDR
			Short Name: AttNPI
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: NUM
			Precision: 10
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User

Target Value: All values between arrival at this facility and discharge



Section: Research Study

Parent: Episode of Care

Element: 3025		Research Study Name	Technical Specification
Coding Instruction:		Indicate the research study name as provided by the research study protocol.	Code: 100001096
		Note(s): If the patient is in more than one research study, list each separately.	Code System Name: ACC NCDR
Target Value: N/A			Short Name: StudyName
Vendor Instruction:		Research Study Name (3025) must be a valid study name for TVT 3.0	Missing Data: Report
		A Research Study Name (3025) may only be entered/selected once	Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		When Patient Enrolled in Research Study (3020) is 'Yes' Research Study Name (3025) cannot be Null	Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: ST
			Precision: 50
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 3020 Patient Enrolled in Research Study
			Operator: Equal
			Value: Yes

Element: 3030		Research Study Patient ID	Technical Specification
Coding Instruction:		Indicate the research study patient identification number as assigned by the research protocol.	Code: 2.16.840.1.113883.3.3478.4.852
		Note(s): If the patient is in more than one research study, list each separately.	Code System Name: ACC NCDR
Target Value: N/A			Short Name: StudyPtID
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: ST
			Precision: 50
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 3025 Research Study Name
			Operator:
			Value: Any Value



Section: History and Risk Factors

Parent: Root

Element: 6000		Height	Technical Specification
Coding Instruction:		Indicate the patient's height in centimeters.	Code: 8302-2
Target Value:		The last value prior to the start of the first procedure	Code System Name: LOINC
			Short Name: Height
			Missing Data: Report
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 5,2
			Selection Type: Single
			Unit of Measure: cm
			Default Value: Null
			Usual Range: 100.00 - 225.00 cm
			Valid Range: 20.00 - 260.00 cm
			Data Source: User
Element: 6005		Weight	Technical Specification
Coding Instruction:		Indicate the patient's weight in kilograms.	Code: 3141-9
Target Value:		The last value prior to the start of the first procedure	Code System Name: LOINC
			Short Name: Weight
			Missing Data: Report
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 5,2
			Selection Type: Single
			Unit of Measure: kg
			Default Value: Null
			Usual Range: 40.00 - 200.00 kg
			Valid Range: 10.00 - 700.00 kg
			Data Source: User
Element: 13697		Number of Prior Open Heart Cardiac Surgeries	Technical Specification
Coding Instruction:		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.	Code: 112000001411
		Note: If the patient had more than 4 open heart procedures and the total number is not known, code 4 prior open heart surgeries.	Code System Name: ACC NCDR
Target Value:		Any occurrence between birth and start of the current procedure	Short Name: NumPrevCardSurg
			Missing Data: Report
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: NUM
			Precision: 1,0
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User



Section: History and Risk Factors

Parent: Root

Element: 13707		Heart Failure Hospitalization Within Past Year	Technical Specification	
Coding Instruction:		Indicate if the patient has been admitted to the hospital for an inpatient admission with a diagnosis of heart failure within the past year.	Code:	112000001855
Target Value:		Any occurrence between 1 year prior to arrival at this facility and arrival at this facility	Code System Name:	ACC NCDR
			Short Name:	PriorHFAAdmit1Year
			Missing Data:	Report
			Harvested:	Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier:	No
			Is Base Element:	Yes
			Is Followup Element:	No
			Data Type:	CD
			Precision:	
			Selection Type:	Single
			Unit of Measure:	
			Default Value:	Null
			Usual Range:	
			Valid Range:	
			Data Source:	User
Parent/Child Validation				
Element:		14253	Heart Failure Hospitalization within Past Year Not Documented	
Operator:		Equal		
Value:		No (or Not Answered)		

Boolean w/Unknown - 1.3.6.1.4.1.19376.1.4.1.6.5.444

Selection	Definition	Source	Code	Code System Name
No			100013073	ACC NCDR
Yes			100013072	ACC NCDR

Element: 14253		Heart Failure Hospitalization within Past Year Not Documented	Technical Specification	
Coding Instruction:		Indicate if an inpatient admission with a diagnosis of heart failure within the past year was not documented.	Code:	112000001855
Target Value:		N/A	Code System Name:	ACC NCDR
			Short Name:	PriorHFAAdmit1YearND
			Missing Data:	Report
			Harvested:	Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier:	No
			Is Base Element:	Yes
			Is Followup Element:	No
			Data Type:	BL
			Precision:	
			Selection Type:	Single
			Unit of Measure:	
			Default Value:	Null
			Usual Range:	
			Valid Range:	
			Data Source:	User



Section: History and Risk Factors

Parent: Root

Element: 13172		Anticipated Life Expectancy of Less than 1 Year		Technical Specification	
Coding Instruction: Indicate if there is physician documentation of the patient's anticipated life expectancy being less than one year, based on comorbidities and other factors not related to the aortic stenosis (factors that would not be expected to be favorably altered by valve replacement). Target Value: The value on start of current procedure				Code:	112000001172
				Code System Name:	ACC NCDR
				Short Name:	LifeLessThan1yr
				Missing Data:	Report
				Harvested:	Yes (TAVR)
				Is Identifier:	No
				Is Base Element:	Yes
				Is Followup Element:	No
				Data Type:	CD
				Precision:	
				Selection Type:	Single
				Unit of Measure:	
				Default Value:	Null
				Usual Range:	
				Valid Range:	
		Data Source:	User		
Parent/Child Validation					
Element:		13171	TVT Pathway		
Operator:		Equal			
Value:		TAVR			
----- AND -----					
Element:		14454	Anticipated Life Expectancy of Less than 1 Year Not Documented		
Operator:		Equal			
Value:		No (or Not Answered)			

Boolean w/Unknown - 1.3.6.1.4.1.19376.1.4.1.6.5.444

Selection	Definition	Source	Code	Code System Name
No			100013073	ACC NCDR
Yes			100013072	ACC NCDR

Element: 14454		Anticipated Life Expectancy of Less than 1 Year Not Documented		Technical Specification	
Coding Instruction:		Indicate if there is no physician documentation of the patient's anticipated life expectancy being less than one year.		Code: 112000001172	
Target Value:		N/A		Code System Name: ACC NCDR	
				Short Name: LifeLessThan1yrND	
				Missing Data: Report	
				Harvested: Yes (TAVR)	
				Is Identifier: No	
				Is Base Element: Yes	
				Is Followup Element: No	
				Data Type: BL	
				Precision:	
				Selection Type: Single	
				Unit of Measure:	
				Default Value: Null	
				Usual Range:	
				Valid Range:	
				Data Source: User	
Parent/Child Validation					
Element:		13171		TVT Pathway	
Operator:		Equal			
Value:		TAVR			



Section: History and Risk Factors

Parent: Root

Element: 13881		Oxygen at Home	Technical Specification
Coding Instruction:		Indicate whether patient uses supplemental oxygen at home.	Code: 268512000
Target Value:		The value on arrival at this facility	Code System: SNOMED CT
			Name:
			Short Name: HmO2
			Missing Data: Report
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
Element: 13882		Immunocompromise Present	Technical Specification
Coding Instruction:		Indicate whether immunocompromise is present due to immunosuppressive medication therapy or an existing medical condition. This includes, but is not limited to systemic steroid therapy, anti-rejection medications and chemotherapy. This does not include topical steroid applications, one time systemic therapy, inhaled steroid therapy or preprocedure protocol.	Code: 370388006
Target Value:		The last value on start of the first procedure	Code System: SNOMED CT
			Name:
			Short Name: ImmSupp
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
Element: 13880		Currently on Dialysis	Technical Specification
Coding Instruction:		Indicate if the patient is currently undergoing either hemodialysis or peritoneal dialysis on an ongoing basis as a result of renal failure.	Code: 108241001
		Note(s): If a 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'.	Code System: SNOMED CT
Target Value:		The last value on start of the first procedure	Name:
			Short Name: CurrentlyonDialysis
			Missing Data: Report
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User



Section: History and Risk Factors

Parent: Root

Element: 4625	Tobacco Use	Technical Specification
Coding Instruction: Indicate the frequency that the patient uses tobacco. Note(s): Consider use of any tobacco product as equivalent to a cigarette for referenced definitions. Target Value: The value on arrival at this facility		Code: 110483000 Code System Name: SNOMED CT Short Name: TobaccoUse Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: CD Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User

Tobacco Use - 1.3.6.1.4.1.19376.1.4.1.6.5.427

Selection	Definition	Source	Code	Code System Name
Never	An individual who has not smoked 100 or more cigarettes during his/her lifetime.	The Office of the National Coordinator for Health Information Technology 2014 Edition Test Procedure for §170.314.a.11.Smoking status	266919005	SNOMED CT
Former	An individual who has smoked at least 100 cigarettes during his/her lifetime but does not currently smoke.		8517006	SNOMED CT
Current - Every Day	An individual who has smoked at least 100 cigarettes during his/her lifetime and still regularly smokes every day.		449868002	SNOMED CT
Current - Some Days	An individual who has smoked at least 100 cigarettes during his/her lifetime and still regularly smokes periodically (not every day), yet consistently.		428041000124106	SNOMED CT
Smoker - Current Status Unknown	An individual known to have smoked at least 100 cigarettes in the past, but whether they currently still smoke is unknown.		77176002	SNOMED CT
Unknown if ever smoked	An individual whose current and prior smoking status is not known.		266927001	SNOMED CT



Section: History and Risk Factors Parent: Root

Element: 4626 Tobacco Type		Technical Specification
Coding Instruction: Indicate all the tobacco type(s) reported by the patient.		Code: 266918002
Target Value: The value on arrival at this facility		Code System Name: SNOMED CT
		Short Name: TobaccoType
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Multiple
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 4625 Tobacco Use
		Operator: Equal
		Value: Current - Every Day
		Element: 4625 Tobacco Use
		Operator: Equal
		Value: Current - Some Days
		Element: 4625 Tobacco Use
		Operator: Equal
		Value: Smoker - Current Status Unknown

Tobacco Type				
Selection	Definition	Source	Code	Code System Name
Cigarettes			65568007	SNOMED CT
Cigars			59978006	SNOMED CT
Pipe			82302008	SNOMED CT
Smokeless			713914004	SNOMED CT



Section: History and Risk Factors

Parent: Root

Element: 4627 Smoking Amount		Technical Specification
Coding Instruction: Indicate the amount of cigarette smoking reported by the patient.		Code: 100001256
Target Value: The value on arrival at this facility		Code System Name: ACC NCDR
		Short Name: SmokeAmount
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 4625 Tobacco Use		
Operator: Equal		
Value: Current - Every Day		
----- AND -----		
Element: 4626 Tobacco Type		
Operator: Equal		
Value: Cigarettes		

Tobacco Amount - 1.3.6.1.4.1.19376.1.4.1.6.5.457

Selection	Definition	Source	Code	Code System Name
Light tobacco use (<10/day)	The patient smokes less than 10 cigarettes daily.		428061000124105	SNOMED CT
Heavy tobacco use (>= 10/day)	The patient smokes 10 or more cigarettes daily.		428071000124103	SNOMED CT



Section: Home Medications

Parent: History and Risk Factors

Element: 12297		Home Medication Code	Technical Specification
Coding Instruction:		Indicate the medication the patient has been taking routinely at home prior to this hospitalization.	Code: 100013057
Target Value:		N/A	Code System Name: ACC NCDR
Vendor Instruction:		When a Home Medication Code (12297) is selected then Home Medication Prescribed (13903) must not be Null	Short Name: HomeMeds
		Home Medication Code (12297) should not be duplicated in an episode	Missing Data: Report
			Harvested: Yes (BDS, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: CD
			Precision:
			Selection Type: Single (Dynamic List)
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
Parent/Child Validation			
Element: 13171		TVT Pathway	
Operator: Equal			
Value: TMVr			
Element: 13171		TVT Pathway	
Operator: Equal			
Value: TMVR			
Element: 13171		TVT Pathway	
Operator: Equal			
Value: Tricuspid Valve Procedure			

Home Medications - 2.16.840.1.113883.3.3478.6.5.302

Selection	Definition	Source	Code	Code System Name
Angiotensin Converting Enzyme Inhibitor			41549009	SNOMED CT
Aldosterone Antagonist			372603003	SNOMED CT
Angiotensin Receptor-Neprilysin Inhibitor			112000001832	ACC NCDR
Anticoagulant			112000001416	ACC NCDR
Aspirin			1191	RxNorm
Angiotensin II Receptor Blocker			372913009	SNOMED CT
Beta Blocker			33252009	SNOMED CT
Diuretics Not Otherwise Specified			112000001417	ACC NCDR
Loop Diuretics			29051009	SNOMED CT
Thiazides			372747003	SNOMED CT
P2Y12 Antagonist			112000001003	ACC NCDR
Selective Sinus Node I/f Channel Inhibitor			112000001831	ACC NCDR



Section: Home Medications

Parent: History and Risk Factors

Element: 13903 Home Medication Prescribed		Technical Specification
Coding Instruction: Indicate whether the patient received the medication at home prior to this hospitalization.		Code: 33633005
Target Value: The value on arrival at this facility		Code System Name: SNOMED CT
		Short Name: PriorMedAdmin_Hom
		Missing Data: Report
		Harvested: Yes (BDS, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 12297 Home Medication Code
		Operator:
		Value: Any Value

Home Medication Prescribed - 1.3.6.1.4.1.19376.1.4.1.6.5.710

Selection	Definition	Source	Code	Code System Name
Yes			100001247	ACC NCDR
Not Prescribed - No Reason			100001048	ACC NCDR

Element: 14575 Loop Diuretic Dose		Technical Specification
Coding Instruction: Specify the total daily dose of the loop diuretic the patient was taking routinely at home prior to this hospitalization.		Code: 112000001975
Target Value: The value on arrival at this facility		Code System Name: ACC NCDR
		Short Name: HomeMed_LoopDiureticDose
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mg
		Default Value: Null
		Usual Range: 1 - 40 mg
		Valid Range: 1 - 300 mg
		Data Source: User
		Parent/Child Validation
		Element: 12297 Home Medication Code
		Operator: Equal
		Value: Loop Diuretics
		 AND
		Element: 13903 Home Medication Prescribed
		Operator: Equal
		Value: Yes



Section: Condition History

Parent: History and Risk Factors

Element: 12903	Condition History Name	Technical Specification
Coding Instruction: The list of medical conditions from which the patient's history is to be determined.		Code: 312850006
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: ConditionHx
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Condition History Name - 1.3.6.1.4.1.19376.1.4.1.6.5.340

Selection	Definition	Source	Code	Code System Name
Atrial fibrillation	AF is a supraventricular tachyarrhythmia with uncoordinated atrial activation and consequently ineffective atrial contraction. Characteristics on an electrocardiogram (ECG) include: 1) irregular R-R intervals (when atrioventricular [AV] conduction is present), 2) absence of distinct repeating P waves, and 3) irregular atrial activity.	January CT, Wann LS, et al. 2014 AHA/ACC/HRS Guideline for the Management of Patients With Atrial Fibrillation: A Report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines and the Heart Rhythm Society. JACC Vol 64, #21, 2014.	49436004	SNOMED CT
Atrial Flutter			5370000	SNOMED CT
Cardiomyopathy			85898001	SNOMED CT
Carotid Artery Stenosis	When one or both carotid arteries was determined from any diagnostic test to have >= 50% stenosis.	Society for Thoracic Surgeons (STS)	64586002	SNOMED CT
Cerebrovascular Accident	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, where the neurological dysfunction lasts for greater than 24 hours.	Society for Thoracic Surgeons (STS)	230690007	SNOMED CT
Cerebrovascular disease	Cerebrovascular disease includes any of the following: A. Stroke: 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, where the neurological dysfunction lasts for greater than 24 hours. B. TIA: is defined as a transient episode of focal neurological dysfunction caused by brain, spinal cord, or retinal ischemia, without acute infarction, where the neurological dysfunction resolves within 24 hours. C. Noninvasive or invasive arterial imaging test demonstrating >=50% stenosis of any of the major extracranial or intracranial vessels to the brain. D. Vertebral artery and internal carotid and intercranial consistent with atherosclerotic disease with document presence as CVD. External carotid disease is excluded. E. Previous cervical or cerebral artery revascularization surgery or percutaneous intervention. F. Brain/cerebral aneurysm. G. Occlusion of vertebral artery, internal carotid artery, and intercranial due to dissection. Note: This does not include chronic (nonvascular) neurological diseases or other acute neurological insults such as metabolic and anoxic ischemic encephalopathy. Subdural hematoma or AVM is not cerebral vascular disease.	Society for Thoracic Surgeons (STS)	62914000	SNOMED CT
Chronic Lung Disease	Chronic lung disease can include patients with	ACC/AHA Key Data Elements and Definitions for Measuring the	413839001	SNOMED CT



Section: Condition History		Parent: History and Risk Factors		
	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.	Clinical Management and Outcomes of Patients With Chronic Heart Failure Circulation. 2005;112:1888-1916		
Conduction Defect	Conduction disorder as evidenced by a right or left bundle branch block, sick sinus syndrome, or first, second or third degree heart block on ECG.		44808001	SNOMED CT
COVID-19 Positive	The patient had a diagnosis of COVID-19, confirmed with a laboratory performed polymerase chain reaction (PCR) test. Notes: It is acceptable to code the diagnosis of COVID-19 based on testing that was NOT performed at your facility if it is accompanied by appropriate documentation in the medical record by the provider. Code no if documentation ONLY included antibody testing (IgG).		112000001982	ACC NCDR
Dementia - Moderate to Severe	Patients with moderate dementia (also termed moderate or severe cognitive decline) are typically oriented to person but not place and time. They are patients who need assistance with activities of daily living.		112000001493	ACC NCDR
Diabetes mellitus	The American Diabetes Association criteria include documentation of the following: 1. FPG $\geq$ 126 mg/dL (7.0 mmol/L). Fasting is defined as no caloric intake for at least 8 h. OR 2. 2-h PG $\geq$ 200 mg/dL (11.1 mmol/L) during an OGTT. The test should be performed as described by the WHO, using a glucose load containing the equivalent of 75 g anhydrous glucose dissolved in water. OR 3. A1C $\geq$ 6.5% (48 mmol/mol). The test should be performed in a laboratory using a method that is NGSP certified and standardized to the DCCT assay. OR 4. In a patient with classic symptoms of hyperglycemia or hyperglycemic crisis, a random plasma glucose $\geq$ 200 mg/dL (11.1 mmol/L).	American Diabetes Association Care. 2017;40 Suppl 1:S13.	73211009	SNOMED CT
Endocarditis	Endocarditis must meet the current CDC definition: Endocarditis must meet at least 1 of the following criteria: 1. Patient has organisms cultured from valve or vegetation. 2. Patient has 2 or more of the following signs or symptoms: fever ($>38^{\circ}\text{C}$), new or changing murmur*, embolic phenomena*, skin manifestations* (i.e., petechiae, splinter hemorrhages, painful subcutaneous nodules), congestive heart failure*, or cardiac conduction abnormality* * With no other recognized cause and at least 1 of the following: 1) Organisms cultured from 2 or more blood cultures 2) Organisms seen on Gram's stain of valve when culture is negative or not done 3) Valvular vegetation seen during an invasive procedure or autopsy 4) Positive laboratory test on blood or urine (e.g., antigen tests for H influenzae, S pneumoniae, N meningitidis, or Group B Streptococcus) 5) Evidence of new vegetation seen on echocardiogram and if diagnosis is made antemortem, physician institutes appropriate antimicrobial therapy. Notes: 1. Choose "Yes" for patients with pre-operative endocarditis who begin antibiotics post-op.	Society of Thoracic Surgeons (STS)	56819008	SNOMED CT



Section: Condition History		Parent: History and Risk Factors		
	2. Code "Yes" for patients who are diagnosed intraoperatively. 3. Marantic Endocarditis (Nonbacterial Thrombotic Endocarditis) (Lupus) should not be coded as infectious endocarditis.			
Heart failure	Heart failure is a complex clinical syndrome that results from any structural or functional impairment of ventricular filling or ejection of blood. The cardinal manifestations of HF are dyspnea and fatigue, which may limit exercise tolerance, and fluid retention, which may lead to pulmonary and/or splanchnic congestion and/or peripheral edema. Some patients have exercise intolerance but little evidence of fluid retention, whereas others complain primarily of edema, dyspnea, or fatigue. Because some patients present without signs or symptoms of volume overload, the term "heart failure" is preferred over "congestive heart failure." There is no single diagnostic test for HF because it is largely a clinical diagnosis based on a careful history and physical examination.	2013 ACCF/AHA Guideline for the Management of Heart Failure; J Am Coll Cardiol. 2013;62(16):e147-e239. doi:10.1016/j.jacc.2013.05.019	84114007	SNOMED CT
Hostile Chest	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 undetectable 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.		112000001489	ACC NCDR
Hypertension	Hypertension is defined by any one of the following: 1. Documentation of hypertension as a medical problem - OR 2. Documentation of blood pressure greater than or equal to 130 mm Hg systolic or 80 mm Hg diastolic on at least 2 encounters	Derived from: 2017 ACC/AHA/AAPA/ABC/ACPM/AGS/APhA/ASH/ASPC/NMA/PCNA Guideline for the Prevention, Detection, Evaluation, and Management of High Blood Pressure in Adults: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines. J Am Coll Cardiol 2018;71:e127-e248.	38341003	SNOMED CT
Liver Disease	A history of hepatitis B, hepatitis C, drug induced hepatitis, autoimmune hepatitis, cirrhosis, portal hypertension, esophageal varices, liver transplant, or congestive hepatopathy. Exclude NASH in the absence of cirrhosis.	Society for Thoracic Surgeons (STS)	235856003	SNOMED CT
Myocardial infarction	Prior myocardial infarction is defined by any of the following: 1. Documentation of myocardial infarction (MI) as a medical problem. - OR 2. Any one of the following criteria meets the diagnosis for prior (sometimes called silent/unrecognized) MI: a. Abnormal Q waves with or without symptoms in the absence of nonischemic causes. b. Imaging evidence of loss of viable myocardium in a pattern consistent with ischemic etiology. c. Patho-anatomical findings of a prior MI.	Thygesen, K, Alpert, J.S., et al Fourth Universal Definition of Myocardial Infarction (2018), J Am Coll Cardiol. 2018 Oct 30;72 (18):2231-2264	22298006	SNOMED CT
Peripheral Arterial Disease	Current or previous history of peripheral arterial disease (includes subclavian, iliac, femoral, and upper- and lower-extremity vessels; excludes renal, coronary, cerebral, and mesenteric vessels and aneurysms). This can include: * Claudication on exertion * Amputation for arterial vascular insufficiency	ACCF/AHA 2011 Key Data Elements and Definitions of a Base Cardiovascular Vocabulary for Electronic Health Records (JACC 2011;58:202-222)	399957001	SNOMED CT



Section: Condition History

Parent: History and Risk Factors

	* Vascular reconstruction, bypass surgery, or percutaneous revascularization in the arteries of the extremities * Positive noninvasive test (e.g., ankle brachial index ≤ 0.9, ultrasound, MR or CT imaging of $>50\%$ diameter stenosis in any peripheral artery (i.e., subclavian, femoral, iliac) or angiographic imaging)			
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".	ACCF/AHA/AATS/ACR/ASA/SCA/SCAI/SIR/STS/SVM Guidelines 112000001175 for the Diagnosis and Management of Patients With Thoracic Aortic Disease (JACC, 2010; 55:27-129)	ACC NCDR	
Transient Ischemic Attack (TIA)	A transient episode of focal neurological dysfunction caused by brain, spinal cord, or retinal ischemia, without acute infarction, where the neurological dysfunction resolves within 24 hours.	Society for Thoracic Surgeons (STS)	266257000	SNOMED CT

Element: 14264

Condition History Occurrence

Coding Instruction: Indicate if the patient does or does not have a history of the indicated medical condition.

Target Value: Any occurrence between birth and the first procedure in this admission

Technical Specification

Code: 312850006

Code System Name: SNOMED CT

Short Name: ConditionHxOccurrence

Missing Data: Report

Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 12903 Condition History Name

Operator:

Value: Any Value



Section: Condition History

Parent: History and Risk Factors

Element: 14251		Condition History Date	Technical Specification
Coding Instruction:		Indicate the most recent occurrence date for the condition.	Code: 312850006
		Note(s): If the month or day of the diagnosis is unknown, please code 01/01/YYYY. If the specific year is unknown in the current record, the year may be estimated based on timeframes found in prior medical record documentation (Example: If the patient had "most recent diagnosis" documented in a record from 2011, then the year 2011 can be utilized and coded as 01/01/2011).	Code System Name: SNOMED CT
			Short Name: CondHistDate
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: DT
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
Parent/Child Validation			
Element: 12903		Condition History Name	
Operator: Equal		Value: Cerebrovascular Accident	
Element: 12903		Condition History Name	
Operator: Equal		Value: COVID-19 Positive	
----- AND -----			
Element: 14264		Condition History Occurrence	
Operator: Equal		Value: Yes	



Section: Atrial Fibrillation

Parent: Condition History Details

Element: 13179 Atrial Fibrillation Classification		Technical Specification
Coding Instruction: Indicate the classification of atrial fibrillation.		Code: 100000935
Target Value: The last value within 30 days prior to the first procedure in this admission		Code System Name: ACC NCDR
		Short Name: AFibClassification
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 12903	Condition History Name	
Operator: Equal		
Value: Atrial fibrillation	--- AND ---	
Element: 14264	Condition History Occurrence	
Operator: Equal		
Value: Yes		

Atrial Fibrillation Classification - 1.3.6.1.4.1.19376.1.4.1.6.5.17

Selection	Definition	Source	Code	Code System Name
Paroxysmal	AF that terminates spontaneously or with intervention within 7 days of onset. Episodes may recur with variable frequency.		26593000	SNOMED CT
Persistent	Continuous AF that is sustained >7 days or with electrical or pharmacological termination.		62459000	SNOMED CT
Long-standing Persistent	Continuous AF of >12 months duration.		100001029	ACC NCDR
Permanent	The term "permanent AF" is used when the patient and clinician make a joint decision to stop further attempts to restore and/or maintain sinus rhythm. - Acceptance of AF represents a therapeutic attitude on the part of the patient and clinician rather than an inherent pathophysiological attribute of the AF. - Acceptance of AF may change as symptoms, the efficacy of therapeutic interventions, and patient and clinician preferences evolve.		6934004	SNOMED CT
None			100001231	ACC NCDR



Section: Atrial Fibrillation

Parent: Condition History Details

Element: 14244		Recent Atrial Fibrillation	Technical Specification
		Coding Instruction: Indicate if the patient has had atrial fibrillation within the past 30 days.	Code: 112000001790
		Target Value: Any occurrence between 30 days prior to the procedure and the procedure	Code System Name: ACC NCDR
			Short Name: AFib30days
			Missing Data: Report
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 13179 Atrial Fibrillation Classification
			Operator: Equal
			Value: Paroxysmal
			Element: 13179 Atrial Fibrillation Classification
			Operator: Equal
			Value: Persistent



Section: Atrial Flutter

Parent: Condition History Details

Element: 14245		Recent Atrial Flutter	Technical Specification
		Coding Instruction: Indicate if the patient has had atrial flutter within the past 30 days.	Code: 112000001791
		Target Value: Any occurrence between 30 days prior to the procedure and the procedure	Code System Name: ACC NCDR
			Short Name: AFlutter30days
			Missing Data: Report
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
		Element: 12903	Condition History Name
		Operator: Equal	
		Value: Atrial Flutter	
		---	AND ---
		Element: 14264	Condition History Occurrence
		Operator: Equal	
		Value: Yes	



Section: Carotid Artery Stenosis

Parent: Condition History Details

Element: 14265		Current Carotid Artery Stenosis	Technical Specification
Coding Instruction:		Indicate if the patient has carotid artery stenosis.	Code: 64586002
Target Value:		The value on arrival at this facility	Code System Name: SNOMED CT
Supporting Definition:		Carotid Artery Stenosis A narrowing of the carotid artery lumen. It is usually caused by the formation of an atherosclerotic plaque. Symptoms are usually present when there is severe narrowing or obstruction of the arterial lumen and manifest as ischemic cerebrovascular accidents. Source: NCImetathesaurus NCIm Version: 201706 Version 2.8 CUI C0007282	Short Name: CurrendCAS Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVp) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
			Parent/Child Validation
			Element: 12903 Condition History Name Operator: Equal Value: Carotid Artery Stenosis --- AND --- Element: 14264 Condition History Occurrence Operator: Equal Value: Yes

Element: 14230		Carotid Artery Stenosis Location	Technical Specification
Coding Instruction:		Indicate which carotid artery was determined from any diagnostic test to be greater or equal to 50% stenotic.	Code: 112000002012
Target Value:		The last value prior to the start of the first procedure	Code System Name: ACC NCDR
Supporting Definition:		Carotid Artery Stenosis A narrowing of the carotid artery lumen. It is usually caused by the formation of an atherosclerotic plaque. Symptoms are usually present when there is severe narrowing or obstruction of the arterial lumen and manifest as ischemic cerebrovascular accidents. Source: NCImetathesaurus NCIm Version: 201706 Version 2.8 CUI C0007282	Short Name: CVDCarsten Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVp) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: CD Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
			Parent/Child Validation
			Element: 14265 Current Carotid Artery Stenosis Operator: Equal Value: Yes ----- AND ----- Element: 14329 Carotid Artery Stenosis Location Not Documented Operator: Equal Value: No (or Not Answered)

Carotid Artery Stenosis Location - 1.3.6.1.4.1.19376.1.4.1.6.5.684

Selection	Definition	Source	Code	Code System Name
Right Carotid Artery Stenosis	There is >=50% stenosis in the right carotid artery.		285201000119100	SNOMED CT
Left Carotid Artery Stenosis	There is >=50% stenosis in the left carotid artery.		285191000119103	SNOMED CT
Bilateral Carotid Artery Stenosis	There is >=50% stenosis in both the right carotid and left carotid arteries.		293821000119107	SNOMED CT



Section: Carotid Artery Stenosis

Parent: Condition History Details

Element: 14329		Carotid Artery Stenosis Location Not Documented	Technical Specification
Coding Instruction:		Indicate if the severity of carotid artery stenosis was not documented.	Code: 112000002012
Target Value:		N/A	Code System Name: ACC NCDR
Supporting Definition:		Carotid Artery Stenosis A narrowing of the carotid artery lumen. It is usually caused by the formation of an atherosclerotic plaque. Symptoms are usually present when there is severe narrowing or obstruction of the arterial lumen and manifest as ischemic cerebrovascular accidents.	Short Name: CVDCarSteLocND Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
		Source: NCImetathesaurus NCIm Version: 201706 Version 2.8 CUI C0007282	Parent/Child Validation
			Element: 14265 Current Carotid Artery Stenosis Operator: Equal Value: Yes



Section: Cardiomyopathy

Parent: Condition History Details

Element: 4570 Cardiomyopathy Type		Technical Specification
Coding Instruction: Indicate the type of cardiomyopathy experienced by the patient.		Code: 100000953
Note(s): If the patient has had multiple cardiomyopathies, select all applicable types.		Code System Name: ACC NCDR
Target Value: Any occurrence between birth and the procedure		Short Name: PriorCMType
		Missing Data: Report
		Harvested: Yes (BDS, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Multiple
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13171 TVT Pathway
		Operator: Equal
		Value: TMVR
		Element: 13171 TVT Pathway
		Operator: Equal
		Value: TMVr
		Element: 13171 TVT Pathway
		Operator: Equal
		Value: Tricuspid Valve Procedure
		----- AND -----
		Element: 12903 Condition History Name
		Operator: Equal
		Value: Cardiomyopathy
		--- AND ---
		Element: 14264 Condition History Occurrence
		Operator: Equal
		Value: Yes

Cardiomyopathy Type - 1.3.6.1.4.1.19376.1.4.1.6.5.193

Selection	Definition	Source	Code	Code System Name
Ischemic cardiomyopathy	The patient has a history of ischemic cardiomyopathy documented by heart failure and reduced systolic function (ejection fraction <40%) and history of any one of the following: 1. History of myocardial infarction (MI) 2. History of Percutaneous Coronary Intervention; 3. History of Coronary Artery Bypass Graft Surgery; 4. Conventional coronary angiography demonstrates >=70% stenosis in at least one major coronary artery. 5. Stress testing (with or without imaging) diagnostic of coronary artery disease.		426856002	SNOMED CT
Non-ischemic cardiomyopathy	Includes cardiomyopathies resulting from volume or pressure overload, such as hypertension or valvular heart disease.		111000119104	SNOMED CT
Other Cardiomyopathy Type	Cardiomyopathy not otherwise specified.		100001065	ACC NCDR



Section: Chronic Lung Disease

Parent: Condition History Details

Element: 13904		Chronic Lung Disease Severity	Technical Specification
Coding Instruction:		Indicate the severity of chronic lung disease.	Code: 413839001
Target Value:		The last value between birth and the first procedure in this admission	Code System Name: SNOMED CT
Supporting Definition:		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.	Short Name: ChronLungDisSeverity Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVp) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: CD Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
		Source: ACC/AHA Key Data Elements and Definitions for Measuring the Clinical Management and Outcomes of Patients With Chronic Heart Failure Circulation. 2005;112:1888-1916	Parent/Child Validation
			Element: 14459 Chronic Lung Disease Severity Not Documented Operator: Equal Value: No (or Not Answered) ----- AND ----- Element: 12903 Condition History Name Operator: Equal Value: Chronic Lung Disease --- AND --- Element: 14264 Condition History Occurrence Operator: Equal Value: Yes

Chronic Lung Disease Severity - 1.3.6.1.4.1.19376.1.4.1.6.5.585

Selection	Definition	Source	Code	Code System Name
Mild Lung Disease	FEV1 60% to 75% of predicted, and/or on chronic inhaled or oral bronchodilator therapy.	Society of Thoracic Surgeons (STS)	112000001593	ACC NCDR
Moderate Lung Disease	FEV1 50% to 59% of predicted, and/or on chronic steroid therapy aimed at lung disease.	Society of Thoracic Surgeons (STS)	112000001594	ACC NCDR
Severe Lung Disease	FEV1 <50% predicted, and/or Room Air pO2 < 60 or Room Air pCO2 > 50.	Society of Thoracic Surgeons (STS)	112000001595	ACC NCDR



Section: Chronic Lung Disease

Parent: Condition History Details

Element: 14459		Chronic Lung Disease Severity Not Documented	Technical Specification
Coding Instruction:		Indicate true if the severity of chronic lung disease is not documented.	Code: 112000001596
Target Value:		N/A	Code System: ACC NCDR
			Name: ChronLungDisSeverity_ND
			Short Name: ChronLungDisSeverity_ND
			Missing Data: Report
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
Element: 12903		Condition History Name	
Operator: Equal			
Value: Chronic Lung Disease			
		--- AND ---	
Element: 14264		Condition History Occurrence	
Operator: Equal			
Value: Yes			



Section: Diabetes Therapy

Parent: Condition History Details

Element: 14231 Diabetes Therapy		Technical Specification
Coding Instruction: Indicate the type of treatment a patient with a diagnosis of diabetes is receiving. Indicate the most aggressive therapy the patient presented with on admission.		Code: 385804009
Target Value: The last value between birth and the first procedure in this admission		Code System Name: SNOMED CT
		Short Name: DiabControl
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 12903 Condition History Name		
Operator: Equal		
Value: Diabetes mellitus		
--- AND ---		
Element: 14264 Condition History Occurrence		
Operator: Equal		
Value: Yes		

Diabetes Therapy

Selection	Definition	Source	Code	Code System Name
None			112000000322	ACC NCDR
Diet			112000000324	ACC NCDR
Oral			112000000323	ACC NCDR
Insulin			161649006	SNOMED CT
Other			112000000325	ACC NCDR



Section: Endocarditis

Parent: Condition History Details

Element: 14232 Endocarditis Type		Technical Specification
Coding Instruction: Indicate the type of endocarditis.		Code: 56819008
Target Value: The last value between birth and the first procedure in this admission		Code System Name: SNOMED CT
		Short Name: InfEndTy
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 12903 Condition History Name		
Operator: Equal		
Value: Endocarditis		
--- AND ---		
Element: 14264 Condition History Occurrence		
Operator: Equal		
Value: Yes		

Endocarditis Type - 1.3.6.1.4.1.19376.1.4.1.6.5.685

Selection	Definition	Source	Code	Code System Name
Treated Endocarditis	The patient has been treated previously for endocarditis and is not taking antibiotics for the infection (other than prophylactic medications).		112000001752	ACC NCDR
Active Endocarditis	The patient is currently being treated for endocarditis. This includes patients who are diagnosed and treatment begins post-op.		112000001753	ACC NCDR



Section: Myocardial Infarction

Parent: Condition History Details

Element: 13174 Myocardial Infarction Timeframe		Technical Specification
Coding Instruction: Indicate if the timeframe of the myocardial infarction.		Code: 22298006
Target Value: The last value between birth and the first procedure in this admission		Code System Name: SNOMED CT
		Short Name: MIWhen
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 12903 Condition History Name		
Operator: Equal		
Value: Myocardial infarction		
--- AND ---		
Element: 14264 Condition History Occurrence		
Operator: Equal		
Value: Yes		

Prior Myocardial Infarction Timeframe - 1.3.6.1.4.1.19376.1.4.1.6.5.451

Selection	Definition	Source	Code	Code System Name
Prior Myocardial Infarction Less than 30 days	Prior myocardial infarction is less than 30 days prior to the procedure.		112000001173	ACC NCDR
Prior Myocardial Infarction Greater than or Equal to 30 days			112000001174	ACC NCDR



Section: Procedure History

Parent: History and Risk Factors

Element: 12905	Procedure History Name	Technical Specification
Coding Instruction: The list of medical procedures from which the patient's history is to be determined.		Code: 416940007
Target Value: N/A		Code System Name: SNOMED CT
Vendor Instruction: When a Procedure History Name (12905) is selected then Procedure History Occurrence (14268) must not be Null		Short Name: ProcedHxName
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Procedure History Name - 1.3.6.1.4.1.19376.1.4.1.6.5.341

Selection	Definition	Source	Code	Code System Name
Aortic valve procedure	Any previous surgical or interventional replacement and/or repair of the aortic valve.		112000001755	ACC NCDR
Aortic Valve Balloon Valvuloplasty			77166000	SNOMED CT
Aortic Valve Repair Surgery			112816004	SNOMED CT
Aortic Valve Replacement Surgery			725351001	SNOMED CT
Aortic Valve Replacement - Transcatheter			41873006	SNOMED CT
Aortic Valve Transcatheter Intervention	Any previous interventional repair of the aortic valve. Note: Do not include surgical aortic valve repairs or transcatheter aortic valve replacements.		112000001768	ACC NCDR
Prior Coronary artery bypass graft			232717009	SNOMED CT
Implantable Cardioverter Defibrillator	Placement of an internal cardioverter defibrillator.		447365002	SNOMED CT
Mitral Valve Procedure	Any previous surgical or interventional replacement and/or repair of the mitral valve.		112000001940	ACC NCDR
Mitral Valve Annuloplasty Ring Surgery			232744004	SNOMED CT
Mitral Valve Repair Surgery			384641003	SNOMED CT
Mitral Valve Replacement Surgery			53059001	SNOMED CT
Mitral Valve Transcatheter Intervention	Any previous interventional repair of the mitral valve. Note: Do not include surgical mitral valve repairs or transcatheter mitral valve replacements.		112000001773	ACC NCDR
Prior PCI			415070008	SNOMED CT
Permanent Pacemaker			449397007	SNOMED CT
Pulmonic Valve Procedure	Any previous surgical or interventional replacement and/or repair of the pulmonic valve.		112000001769	ACC NCDR
Tricuspid Valve Procedure	Any previous surgical or interventional replacement and/or repair of the tricuspid valve.		112000001941	ACC NCDR
Tricuspid Valve Repair Surgery			384643000	SNOMED CT
Tricuspid Valve Replacement Surgery			25236004	SNOMED CT
Tricuspid Valve Replacement - Transcatheter			112000001977	ACC NCDR
Tricuspid Valve Transcatheter Intervention	Any previous interventional repair of the tricuspid valve. Note: Do not include surgical tricuspid valve repairs or transcatheter tricuspid valve replacements.		112000001779	ACC NCDR



Section: Procedure History Parent: History and Risk Factors

Element: 14268 Procedure History Occurrence		Technical Specification
Coding Instruction: Indicate if the patient does or does not have a history of the indicated medical procedure.		Code: 416940007
Target Value: Any occurrence between birth and the first procedure in this admission		Code System Name: SNOMED CT
		Short Name: ProcHxOccur
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 12905 Procedure History Name
		Operator:
		Value: Any Value



Section: Procedure History

Parent: History and Risk Factors

Element: 14252		Procedure History Date	Technical Specification
Coding Instruction:		Indicate the date the procedure was performed. Note(s): If the month or day of the procedure is unknown, please code 01/01/YYYY. If the specific year is unknown in the current record, the year may be estimated based on timeframes found in prior medical record documentation (Example: If the patient had "most recent procedure" documented in a record from 2011, then the year 2011 can be utilized and coded as 01/01/2011).	Code: 416940007 Code System Name: SNOMED CT Short Name: ProcHistDate Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: DT Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Target Value:		The last value between birth and the first procedure in this admission	
Vendor Instruction:		Procedure History Date (14252) must be Less than or Equal to Procedure Start Date and Time (7000)	
			Parent/Child Validation
			Element: 12905 Procedure History Name Operator: Equal Value: Aortic valve procedure Element: 12905 Procedure History Name Operator: Equal Value: Prior Coronary artery bypass graft Element: 12905 Procedure History Name Operator: Equal Value: Permanent Pacemaker Element: 12905 Procedure History Name Operator: Equal Value: Prior PCI Element: 12905 Procedure History Name Operator: Equal Value: Mitral Valve Procedure Element: 12905 Procedure History Name Operator: Equal Value: Tricuspid Valve Procedure ----- AND ----- Element: 14268 Procedure History Occurrence Operator: Equal Value: Yes



Section: Aortic Valve Replacement

Parent: Procedure History Details

Element: 14335		Technical Specification
Surgical Aortic Valve Replacement Implant ID		
Coding Instruction: Indicate the implant ID of the prosthetic aortic valve.		Code: 84683006
Target Value: The last value between birth and the first procedure in this admission		Code System Name: SNOMED CT
		Short Name: SAVRImplantID
		Missing Data: Report
		Harvested: Yes (TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single (Dynamic List)
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13171 TVT Pathway
		Operator: Equal
		Value: TAVR
		----- AND -----
		Element: 12905 Procedure History Name
		Operator: Equal
		Value: Aortic Valve Replacement Surgery
		--- AND ---
		Element: 14268 Procedure History Occurrence
		Operator: Equal
		Value: Yes

Element: 14519		Technical Specification
Surgical Aortic Valve Replacement Implant Diameter		
Coding Instruction: Indicate the aortic valve implant size.		Code: 84683006
Target Value: The last value between birth and the first procedure in this admission		Code System Name: SNOMED CT
		Short Name: SAVRImplantDia
		Missing Data: Report
		Harvested: Yes (TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mm
		Default Value: Null
		Usual Range: 16 - 36 mm
		Valid Range: 5 - 100 mm
		Data Source: User
		Parent/Child Validation
		Element: 14335 Surgical Aortic Valve Replacement Implant ID
		Operator:
		Value: Any Value



Section: Aortic Valve Replacement

Parent: Procedure History Details

Element: 14236		Aortic Valve Replacement Type	
Coding Instruction:		Indicate the type of surgical aortic valve replacement.	
Target Value:		The last value between birth and the first procedure in this admission	

Aortic Valve Replacement Type - 1.3.6.1.4.1.19376.1.4.1.6.5.686

Selection	Definition	Source	Code	Code System Name
Stented Valve Replacement	Surgical valve replacement with a bioprosthetic stented valve.		112000001758	ACC NCDR
Stentless Valve Replacement	Surgical valve replacement with a bioprosthetic stentless valve.		112000001760	ACC NCDR



Section: Aortic Valve Replacement

Parent: Procedure History Details

Element: 14237		Technical Specification
Aortic Valve Replacement Type Not Documented		Code: 725351001
Coding Instruction: Indicate if the surgical aortic valve replacement type was not documented.		Code System Name: SNOMED CT
Target Value: N/A		Short Name: AVReplacementTypeND
		Missing Data: Report
		Harvested: Yes (TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13171		TVT Pathway
Operator: Equal		
Value: TAVR		
----- AND -----		
Element: 12905		Procedure History Name
Operator: Equal		
Value: Aortic Valve Replacement Surgery		
--- AND ---		
Element: 14268		Procedure History Occurrence
Operator: Equal		
Value: Yes		



Section: Transcatheter AV Replacement

Parent: Procedure History Details

Element: 14249		Transcatheter Aortic Valve Replacement Implant ID	Technical Specification
Coding Instruction:		Indicate the model ID implanted in the transcatheter aortic valve replacement procedure.	Code: 112000001766
Target Value:		The last value between birth and the first procedure in this admission	Code System Name: ACC NCDR
Supporting Definition:		TAVR Model ID The model ID of the transcatheter valve used for transcatheter valve replacement procedure.	Short Name: TAVRImplantID
Source:			Missing Data: Report
			Harvested: Yes (TAVR)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: CD
			Precision:
			Selection Type: Single (Dynamic List)
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 13171 TVT Pathway
			Operator: Equal
			Value: TAVR
			----- AND -----
			Element: 12905 Procedure History Name
			Operator: Equal
			Value: Aortic Valve Replacement - Transcatheter
			--- AND ---
			Element: 14268 Procedure History Occurrence
			Operator: Equal
			Value: Yes
Element: 14515		Transcatheter Aortic Valve Replacement Implant Diameter	Technical Specification
Coding Instruction:		Indicate the transcatheter aortic valve implant size.	Code: 112000001766
Target Value:		The last value between birth and the first procedure in this admission	Code System Name: ACC NCDR
Supporting Definition:		TAVR Model ID The model ID of the transcatheter valve used for transcatheter valve replacement procedure.	Short Name: TAVRImplantDia
Source:			Missing Data: Report
			Harvested: Yes (TAVR)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 3,0
			Selection Type: Single
			Unit of Measure: mm
			Default Value: Null
			Usual Range: 10 - 36 mm
			Valid Range: 5 - 100 mm
			Data Source: User
			Parent/Child Validation
			Element: 14249 Transcatheter Aortic Valve Replacement Implant ID
			Operator:
			Value: Any Value



Section: ICD

Parent: Procedure History Details

Element: 14259		Cardiac Resynchronization Therapy Defibrillator	Technical Specification
Coding Instruction:		Indicate if the ICD includes a cardiac resynchronization therapy (CRT-D) device.	Code: 112000002006
Target Value:		The last value between birth and the first procedure in this admission	Code System Name: ACC NCDR
Supporting Definition:		CRT-D A cardiac resynchronization therapy device and 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. Source:	Short Name: CRTD Missing Data: Report Harvested: Yes (BDS, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
			Parent/Child Validation
			Element: 13171 TVT Pathway Operator: Equal Value: TMVr
			Element: 13171 TVT Pathway Operator: Equal Value: TMVR
			Element: 13171 TVT Pathway Operator: Equal Value: Tricuspid Valve Procedure
			----- AND -----
			Element: 12905 Procedure History Name Operator: Equal Value: Implantable Cardioverter Defibrillator
			--- AND ---
			Element: 14268 Procedure History Occurrence Operator: Equal Value: Yes



Section: Mitral Valve Annuloplasty

Parent: Procedure History Details

Element: 14257 Mitral Valve Annuloplasty Ring Type		Technical Specification
Coding Instruction: Indicate the type of mitral annuloplasty ring implanted surgically.		Code: 232744004
Target Value: The last value between birth and the first procedure in this admission		Code System Name: SNOMED CT
		Short Name: PriorMVRingSurg
		Missing Data: No Action
		Harvested: Yes (BDS, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14258 Mitral Valve Annuloplasty Ring Type Not Documented		
Operator: Equal		
Value: No (or Not Answered)		
----- AND -----		
Element: 13171 TVT Pathway		
Operator: Equal		
Value: TMVr		
Element: 13171 TVT Pathway		
Operator: Equal		
Value: TMVR		
----- AND -----		
Element: 12905 Procedure History Name		
Operator: Equal		
Value: Mitral Valve Annuloplasty Ring Surgery		
--- AND ---		
Element: 14268 Procedure History Occurrence		
Operator: Equal		
Value: Yes		

Mitral Annuloplasty Ring Type - 1.3.6.1.4.1.19376.1.4.1.6.5.690

Selection	Definition	Source	Code	Code System Name
Circumferential Mitral Annuloplasty Ring	A circumferential mitral annuloplasty ring.		112000001772	ACC NCDR
Partial Mitral Annuloplasty Ring	A partial mitral annuloplasty ring.		112000001771	ACC NCDR



Section: Mitral Valve Annuloplasty

Parent: Procedure History Details

Element: 14258 Mitral Valve Annuloplasty Ring Type Not Documented		Technical Specification
Coding Instruction: Indicate if the type of mitral annuloplasty ring implanted surgically was not documented.		Code: 232744004
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: PriorMVRingSurgND
		Missing Data: Report
		Harvested: Yes (BDS, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13171 TVT Pathway
		Operator: Equal
		Value: TMVr
		Element: 13171 TVT Pathway
		Operator: Equal
		Value: TMVR
		----- AND -----
		Element: 12905 Procedure History Name
		Operator: Equal
		Value: Mitral Valve Annuloplasty Ring Surgery
		--- AND ---
		Element: 14268 Procedure History Occurrence
		Operator: Equal
		Value: Yes

Element: 14455 Mitral Ring Implant ID		Technical Specification
Coding Instruction: Indicate the implant ID of the mitral ring or mitral band.		Code: 17107009
Target Value: The last value between birth and the first procedure in this admission		Code System Name: SNOMED CT
		Short Name: MVRingImplantID
		Missing Data: Report
		Harvested: Yes (TMVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single (Dynamic List)
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13171 TVT Pathway
		Operator: Equal
		Value: TMVR
		----- AND -----
		Element: 12905 Procedure History Name
		Operator: Equal
		Value: Mitral Valve Annuloplasty Ring Surgery
		--- AND ---
		Element: 14268 Procedure History Occurrence
		Operator: Equal
		Value: Yes



Section: Mitral Valve Annuloplasty

Parent: Procedure History Details

Element: 14533 Mitral Ring Implant Diameter

Coding Instruction: Indicate the mitral ring implant diameter size.

Target Value: The last value between birth and the first procedure in this admission

Technical Specification

Code: 112000001807

Code System Name: ACC NCDR

Short Name: MVRingImplantDia

Missing Data: Report

Harvested: Yes (TMVR)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: PQ

Precision: 3,0

Selection Type: Single

Unit of Measure: mm

Default Value: Null

Usual Range: 10 - 36 mm

Valid Range: 5 - 100 mm

Data Source: User

Parent/Child Validation

Element: 14455 Mitral Ring Implant ID

Operator:

Value: Any Value



Section: Mitral Valve Replacement

Parent: Procedure History Details

Element: 14241 Mitral Valve Replacement Type		Technical Specification
Coding Instruction: Indicate the type of surgical mitral valve replacement.		Code: 53059001
Target Value: The last value between birth and the first procedure in this admission		Code System Name: SNOMED CT
		Short Name: PrevMVReplaceType
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13171	TVT Pathway	
Operator: Equal		
Value: TAVR		
Element: 13171	TVT Pathway	
Operator: Equal		
Value: TMVR		
----- AND -----		
Element: 14242	Mitral Valve Replacement Type	
	Not Documented	
Operator: Equal		
Value: No (or Not Answered)		
----- AND -----		
Element: 12905	Procedure History Name	
Operator: Equal		
Value: Mitral Valve Replacement Surgery		
--- AND ---		
Element: 14268	Procedure History Occurrence	
Operator: Equal		
Value: Yes		

Mitral Valve Replacement Type - 1.3.6.1.4.1.19376.1.4.1.6.5.734

Selection	Definition	Source	Code	Code System Name
Mechanical			705991002	SNOMED CT
Stented			112000001758	ACC NCDR
Stentless			112000001760	ACC NCDR



Section: Mitral Valve Replacement

Parent: Procedure History Details

Element: 14242 Mitral Valve Replacement Type Not Documented		Technical Specification
Coding Instruction: Indicate if the surgical mitral valve replacement type was not documented.		Code: 53059001
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: PrevMVReplaceTypeND
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13171	TVT Pathway	
Operator: Equal		
Value: TAVR		
Element: 13171	TVT Pathway	
Operator: Equal		
Value: TMVR		
----- AND -----		
Element: 12905	Procedure History Name	
Operator: Equal		
Value: Mitral Valve Replacement Surgery		
--- AND ---		
Element: 14268	Procedure History Occurrence	
Operator: Equal		
Value: Yes		

Element: 14334 Surgical Mitral Valve Replacement Implant ID		Technical Specification
Coding Instruction: Indicate the implant ID of the prosthetic mitral valve.		Code: 17107009
Target Value: The last value between birth and the first procedure in this admission		Code System Name: SNOMED CT
		Short Name: SMVRImplantID
		Missing Data: Report
		Harvested: Yes (TMVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single (Dynamic List)
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13171	TVT Pathway	
Operator: Equal		
Value: TMVR		
----- AND -----		
Element: 12905	Procedure History Name	
Operator: Equal		
Value: Mitral Valve Replacement Surgery		
--- AND ---		
Element: 14268	Procedure History Occurrence	
Operator: Equal		
Value: Yes		



Section: Mitral Valve Replacement

Parent: Procedure History Details

Element: 14518 Surgical Mitral Valve Replacement Implant Diameter		Technical Specification
Coding Instruction: Indicate the mitral valve implant size.		Code: 17107009
Target Value: The last value between birth and the first procedure in this admission		Code System Name: SNOMED CT
		Short Name: SMVRImplantDia
		Missing Data: Report
		Harvested: Yes (TMVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mm
		Default Value: Null
		Usual Range: 16 - 36 mm
		Valid Range: 5 - 100 mm
		Data Source: User
		Parent/Child Validation
		Element: 14334 Surgical Mitral Valve Replacement Implant ID
		Operator:
		Value: Any Value



Section: Mitral Valve Transcatheter

Parent: Procedure History Details

Element: 14261 Mitral Valve Transcatheter Intervention Type		Technical Specification
Coding Instruction: Indicate the type of transcatheter mitral valve intervention.		Code: 112000002002
Target Value: The last value between birth and the first procedure in this admission		Code System Name: ACC NCDR
		Short Name: PriorTMVRType
		Missing Data: Report
		Harvested: Yes (BDS, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13171	TVT Pathway	
Operator: Equal		
Value: TMVr		
Element: 13171	TVT Pathway	
Operator: Equal		
Value: TMVR		
----- AND -----		
Element: 12905	Procedure History Name	
Operator: Equal		
Value: Mitral Valve Transcatheter Intervention		
--- AND ---		
Element: 14268	Procedure History Occurrence	
Operator: Equal		
Value: Yes		

Mitral Valve Transcatheter Type - 1.3.6.1.4.1.19376.1.4.1.6.5.691

Selection	Definition	Source	Code	Code System Name
Leaflet Clip Procedure			112000001778	ACC NCDR
Direct Annuloplasty Intervention			112000001775	ACC NCDR
Coronary Sinus Based Intervention			112000001774	ACC NCDR
Valve in Native Valve Procedure			112000001776	ACC NCDR
Valve in Valve Procedure			112000001286	ACC NCDR
Other Mitral Valve Transcatheter Intervention			112000001777	ACC NCDR



Section: Mitral Valve Transcatheter

Parent: Procedure History Details

Element: 14510		Transcatheter Mitral Valve Replacement Implant ID	Technical Specification
Coding Instruction:		Indicate the transcatheter mitral valve replacement implant ID.	Code: 17107009
Target Value:		The last value between birth and the first procedure in this admission	Code System Name: SNOMED CT
			Short Name: TMVRImplantID
			Missing Data: Report
			Harvested: Yes (TMVR)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: CD
			Precision:
			Selection Type: Single (Dynamic List)
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 13171 TVT Pathway
			Operator: Equal
			Value: TMVR
			----- AND -----
			Element: 12905 Procedure History Name
			Operator: Equal
			Value: Mitral Valve Transcatheter Intervention
			--- AND ---
			Element: 14268 Procedure History Occurrence
			Operator: Equal
			Value: Yes

Element: 14534		Transcatheter Mitral Valve Replacement Implant Diameter	Technical Specification
Coding Instruction:		Indicate the transcatheter mitral valve replacement implant size.	Code: 112000001807
Target Value:		The last value between birth and the first procedure in this admission	Code System Name: ACC NCDR
			Short Name: TMVRImplantDia
			Missing Data: Report
			Harvested: Yes (TMVR)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 3,0
			Selection Type: Single
			Unit of Measure: mm
			Default Value: Null
			Usual Range: 10 - 36 mm
			Valid Range: 5 - 100 mm
			Data Source: User
			Parent/Child Validation
			Element: 14510 Transcatheter Mitral Valve Replacement Implant ID
			Operator:
			Value: Any Value



Section: Permanent Pacemaker

Parent: Procedure History Details

Element: 14260		Cardiac Resynchronization Therapy	Technical Specification
Coding Instruction:		Indicate if the pacemaker type includes cardiac resynchronization therapy (CRT).	Code: 704708004
			Code System Name: SNOMED CT
			Short Name: CRT
			Missing Data: Report
			Harvested: Yes (BDS, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
		Cardiac Resynchronization Therapy Pacemaker Placement	Parent/Child Validation
		A CRT procedure is the placement of 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.	Element: 13171 TVT Pathway
			Operator: Equal
			Value: TMVr
			Element: 13171 TVT Pathway
			Operator: Equal
			Value: TMVR
			Element: 13171 TVT Pathway
			Operator: Equal
			Value: Tricuspid Valve Procedure
			----- AND -----
			Element: 12905 Procedure History Name
			Operator: Equal
			Value: Permanent Pacemaker
			--- AND ---
			Element: 14268 Procedure History Occurrence
			Operator: Equal
			Value: Yes



Section: Tricuspid Valve Repair Surgery

Parent: Procedure History Details

Element: 14299		Tricuspid Valve Annuloplasty Ring	Technical Specification
Coding Instruction:		Indicate if the patient had a prior tricuspid annuloplasty ring implanted surgically.	Code: 46030003
Target Value:		The last value between birth and the first procedure in this admission	Code System Name: SNOMED CT
Supporting Definition:		Tricuspid Valve A three-cusp valve of the heart that regulates the flow of blood between the right atrium and the right ventricle of the heart	Short Name: PreTVARing
Source:			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 13171 TVT Pathway
			Operator: Equal
			Value: Tricuspid Valve Procedure
			----- AND -----
			Element: 12905 Procedure History Name
			Operator: Equal
			Value: Tricuspid Valve Repair Surgery
			--- AND ---
			Element: 14268 Procedure History Occurrence
			Operator: Equal
			Value: Yes



Section: Tricuspid Valve Intervention

Parent: Procedure History Details

Element: 14300	Transcatheter Tricuspid Valve Intervention Type	Technical Specification
Coding Instruction:	Indicate the type of transcatheter tricuspid valve intervention.	Code: 112000001779
Target Value:	The last value between birth and the first procedure in this admission	Code System Name: ACC NCDR
Supporting Definition:	Tricuspid Valve A three-cusp valve of the heart that regulates the flow of blood between the right atrium and the right ventricle of the heart	Short Name: PreTTVType
	Source:	Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13171 TVT Pathway
		Operator: Equal
		Value: Tricuspid Valve Procedure
		----- AND -----
		Element: 12905 Procedure History Name
		Operator: Equal
		Value: Tricuspid Valve Transcatheter Intervention
		--- AND ---
		Element: 14268 Procedure History Occurrence
		Operator: Equal
		Value: Yes

Tricuspid Valve Intervention Type - 1.3.6.1.4.1.19376.1.4.1.6.5.735

Selection	Definition	Source	Code	Code System Name
Annuloplasty Ring			232782007	SNOMED CT
Other			112000001873	ACC NCDR



Section: Tricuspid Valve Replacement Surgery

Parent: Procedure History Details

Element: 14298		Technical Specification
Surgical Tricuspid Valve Replacement Implant ID		
Coding Instruction: Indicate the implant ID of the prosthetic tricuspid valve.		Code: 703201004
Target Value: The last value between birth and the first procedure in this admission		Code System Name: SNOMED CT
		Short Name: STVRImplantID
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single (Dynamic List)
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13171 TVT Pathway
		Operator: Equal
		Value: Tricuspid Valve Procedure
		----- AND -----
		Element: 12905 Procedure History Name
		Operator: Equal
		Value: Tricuspid Valve Replacement Surgery
		--- AND ---
		Element: 14268 Procedure History Occurrence
		Operator: Equal
		Value: Yes

Element: 14516		Technical Specification
Surgical Tricuspid Valve Replacement Implant Diameter		
Coding Instruction: Indicate the tricuspid valve implant size.		Code: 703201004
Target Value: The last value between birth and the first procedure in this admission		Code System Name: SNOMED CT
		Short Name: STVRImplantDia
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mm
		Default Value: Null
		Usual Range: 10 - 36 mm
		Valid Range: 5 - 100 mm
		Data Source: User
		Parent/Child Validation
		Element: 14298 Surgical Tricuspid Valve Replacement Implant ID
		Operator:
		Value: Any Value



Section: Transcatheter TV Replacement

Parent: Procedure History Details

Element: 14301 Transcatheter Tricuspid Valve Replacement Implant ID		Technical Specification
Coding Instruction: Indicate the implant ID of the prosthetic tricuspid valve.		Code: 112000001810
Target Value: The last value between birth and the first procedure in this admission		Code System Name: ACC NCDR
		Short Name: TTVRImpantID
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single (Dynamic List)
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13171 TVT Pathway
		Operator: Equal
		Value: Tricuspid Valve Procedure
		----- AND -----
		Element: 12905 Procedure History Name
		Operator: Equal
		Value: Tricuspid Valve Replacement - Transcatheter
		--- AND ---
		Element: 14268 Procedure History Occurrence
		Operator: Equal
		Value: Yes

Element: 14517 Transcatheter Tricuspid Valve Replacement Implant Diameter		Technical Specification
Coding Instruction: Indicate the tricuspid valve implant size.		Code: 112000001810
Target Value: The last value between birth and the first procedure in this admission		Code System Name: ACC NCDR
		Short Name: TTVRImpantDia
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mm
		Default Value: Null
		Usual Range: 16 - 36 mm
		Valid Range: 5 - 100 mm
		Data Source: User
		Parent/Child Validation
		Element: 14301 Transcatheter Tricuspid Valve Replacement Implant ID
		Operator:
		Value: Any Value



Section: Lab Visit

Parent: Root

Element: 14273	Transcatheter Valve Therapy Procedure Type	Technical Specification
Coding Instruction: Indicate the TVT procedure performed.		Code: 112000001167
Target Value: The value on current procedure		Code System Name: ACC NCDR
Vendor Instruction: Transcatheter Valve Therapy Procedure Type (14273) cannot be Transcatheter Mitral Valve Repair when one of the following is true: • Mitral Valve Transcatheter Type (14261) is either Valve in Native Valve or Valve in Valve • Procedure History Name (12905) is MV Replacement Surgery Within an episode, a Transcatheter Mitral Valve Repair cannot happen in any subsequent lab visit(s) for Transcatheter Mitral Valve Replacement		Short Name: TVTProType
		Missing Data: Illegal
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Multiple
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Transcatheter Valve Therapy Procedure - 1.3.6.1.4.1.19376.1.4.1.6.5.695

Selection	Definition	Source	Code	Code System Name
TAVR	Transcatheter aortic valve replacement		41873006	SNOMED CT
TMVr	Transcatheter mitral repair procedure		112000001801	ACC NCDR
TMVR	Transcatheter mitral valve replacement		112000001458	ACC NCDR
Tricuspid Valve Procedure	Transcatheter tricuspid valve procedures include either a transcatheter tricuspid valve replacement or transcatheter tricuspid valve repair.		112000001977	ACC NCDR

Element: 13329	Procedure Room Entry Date and Time	Technical Specification
Coding Instruction: Indicate the date and time the patient entered the procedure room.		Code: 112000001197
Target Value: The value on current procedure		Code System Name: ACC NCDR
Supporting Definition: Procedure Room Entry Concept associated with data elements pertaining to a patient's entry into a procedure room. Source:		Short Name: TVTPRocedureEntryTime
Vendor Instruction: Procedure Room Entry Date and Time (13329) must be Less than or Equal to Procedure Start Date and Time (7000)		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: TS
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



Section: Lab Visit

Parent: Root

Element: 7000	Procedure Start Date and Time	Technical Specification
Coding Instruction: Indicate the date and time the procedure started. The time of the procedure is the time that the skin incision, vascular access, or its equivalent, was made in order to start the procedure.		Code: 1000142460
		Code System Name: ACC NCDR
Note(s): Indicate the date/time (mm/dd/yyyy hours:minutes) using the military 24-hour clock, beginning at midnight (0000 hours).		Short Name: ProcedureStartDateTime
		Missing Data: Illegal
Target Value: Any occurrence on current procedure		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
Vendor Instruction: Procedure Start Date and Time (7000) must be Less than or Equal to Discharge Date (10100)		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: TS
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 7005	Procedure End Date and Time	Technical Specification
Coding Instruction: Indicate the ending date and time at which the operator completes the procedure and breaks scrub at the end of the procedure.		Code: 1000142459
		Code System Name: ACC NCDR
Note(s): If more than one operator is involved in the case then use the date and time the last operator breaks scrub for the last time.		Short Name: ProcedureEndTime
		Missing Data: Illegal
Target Value: The value on current procedure		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
Vendor Instruction: Procedure End Date and Time (7005) must be Greater than or Equal to Procedure Start Date and Time (7000)		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: TS
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 13330	Procedure Room Exit Date and Time	Technical Specification
Coding Instruction: Indicate the date and time the patient exits the procedure room.		Code: 112000001198
Target Value: The value on current procedure		Code System Name: ACC NCDR
Supporting Definition: Procedure Room Exit		Short Name: TVTProcedureStopTime
Concept associated with data elements pertaining to a patient's exit from a procedure room.		Missing Data: Report
Source:		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: TS
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



Section: Lab Visit

Parent: Root

Element: 13793		Technical Specification
Mitral Leaflet Clip Procedure		
Coding Instruction: Indicate if a mitral leaflet clip procedure was performed.		Code: 112000000208
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: ProcLeafClip
		Missing Data: Illegal
		Harvested: Yes (BDS, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVr



Section: Presentation and Evaluation

Parent: Lab Visit

Element: 12177 CAD Presentation		Technical Specification
Coding Instruction: Indicate the patient's coronary artery disease (CAD) presentation. Choose the worst status.		Code: 112000000109
Target Value: The highest value between 7 days prior to arrival and current procedure		Code System Name: ACC NCDR
		Short Name: CADPresentation
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Coronary Artery Disease Symptoms/Presentation - 1.3.6.1.4.1.19376.1.4.1.6.5.736

Selection	Definition	Source	Code	Code System Name
No Symptoms, No Angina	The patient presents with no symptoms.		LA6111-4	LOINC
Unstable Angina	Unstable angina which includes angina at rest, new onset or increasing angina (change in previously diagnosed pattern) within the past 2 months.		4557003	SNOMED CT
Stable Angina	Angina without a change in frequency or pattern for the six weeks prior to this cath lab presentation. Angina is controlled by rest and/or oral or transcutaneous medications.		233819005	SNOMED CT
Symptoms Unlikely to be Ischemic	Pain or symptoms that are not consistent with pain or discomfort of myocardial ischemic origin within the past two weeks.		112000000120	ACC NCDR
STEMI	The patient presents with a STEMI within the past seven days.		401303003	SNOMED CT
Non-STEMI	The patient presents to the cath lab with an NSTEMI within the past seven days.		401314000	SNOMED CT

Element: 14266 Heart Failure		Technical Specification
Coding Instruction: Indicate if there is physician documentation or report that the patient has been in a state of heart failure within the past 2 weeks.		Code: 84114007
Target Value: Any occurrence between 2 weeks prior to current procedure and current procedure		Code System Name: SNOMED CT
Supporting Definition: Heart Failure		Short Name: Prior2WksHF
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



Section: Presentation and Evaluation

Parent: Lab Visit

Element: 12163	New York Heart Association Classification	Technical Specification
Coding Instruction: Indicate the patient's most severe dyspnea or functional class, coded as the New York Heart Association (NYHA) classification.		Code: 420816009
Target Value: The highest value between 2 weeks prior to current procedure and current procedure		Code System Name: SNOMED CT
Supporting Definition: NYHA The NYHA classes focus on exercise capacity and the symptomatic status of the disease. Source: 2013 ACCF/AHA Guideline for the Management of Heart Failure; J Am Coll Cardiol. 2013;62(16):e147-e239. doi:10.1016/j.jacc.2013.05.019		Short Name: Prior2weekNYHA Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: CD Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User

NYHA Functional Classification - 1.3.6.1.4.1.19376.1.4.1.6.5.8

Selection	Definition	Source	Code	Code System Name
Class I	Patients with cardiac disease but without resulting limitations of physical activity. Ordinary physical activity does not cause undue fatigue, palpitation, or dyspnea.	The Criteria Committee of the New York Heart Association. Nomenclature and Criteria for Diagnosis of Diseases of the Heart and Great Vessels. 9th ed. Boston, Mass: Little, Brown & Co; 1994:253-256.	420300004	SNOMED CT
Class II	Patients with cardiac disease resulting in slight limitation of physical activity. They are comfortable at rest. Ordinary physical activity results in fatigue, palpitation, or dyspnea.		421704003	SNOMED CT
Class III	Patients with cardiac disease resulting in marked limitation of physical activity. They are comfortable at rest. Less than ordinary activity causes fatigue, palpitation, or dyspnea.		420913000	SNOMED CT
Class IV	Patients with cardiac disease resulting in inability to carry on any physical activity without discomfort. Symptoms are present even at rest or minimal exertion. If any physical activity is undertaken, discomfort is increased.		422293003	SNOMED CT

Element: 13175	Cardiogenic Shock	Technical Specification
Coding Instruction: Indicate if the patient has been in a state of cardiogenic shock within 24 hrs of procedure.		Code: 89138009
Target Value: Any occurrence between 24 hours prior to current procedure and up to current procedure		Code System Name: SNOMED CT
Supporting Definition: Cardiogenic Shock Cardiogenic shock is defined as a sustained (>30 min) episode of systolic blood pressure <90 mm Hg and/or cardiac index <2.2 L/min per square meter determined to be secondary to cardiac dysfunction and/or the requirement for parenteral inotropic or vasopressor agents or mechanical support (eg, IABP, extracorporeal circulation, VADs) to maintain blood pressure and cardiac index above those specified levels. Note: Transient episodes of hypotension reversed with IV fluid or atropine do not constitute cardiogenic shock. The hemodynamic compromise (with or without extraordinary supportive therapy) must persist for at least 30 min. Source: Cannon CP, et al. 2013 ACCF/AHA Key Data Elements and Definitions for Measuring the Clinical Management and Outcomes of Patients With Acute Coronary Syndromes and Coronary Artery Disease: A Report of the ACC/AHA Task Force on Clinical Data Standards (Writing Committee to Develop Acute Coronary Syndromes and Coronary Artery Disease Clinical Data Standards). J Am Coll Cardiol. 2013;61(9):992-1025.		Short Name: PriorCardioShock Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User



Section: Presentation and Evaluation

Parent: Lab Visit

Element: 14267 Cardiac Arrest		Technical Specification
Coding Instruction: Indicate if the patient has had an episode of cardiac arrest within 24 hours of the procedure.		Code: 410429000
Target Value: Any occurrence between 24 hours prior to current procedure and up to current procedure		Code System Name: SNOMED CT
Supporting Definition: Cardiac Arrest Cardiac arrest is defined as acute cardiac event documented by one of the following: ventricular fibrillation, rapid ventricular tachycardia or bradycardia rhythms with hemodynamic compromise causing loss of consciousness, pulseless rhythms (PEA), or asystole requiring cardiopulmonary resuscitation (two or more chest compressions or open chest massage, emergency temporary pacing, pericardiocentesis, institution of ECMO, or defibrillation) and without these measures death would have almost certainly resulted. Source: Data Governance Subcommittee of the NCDR's SQOC		Short Name: PriorCardArrest Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Element: 13186 Symptoms of Aortic Stenosis Present		Technical Specification
Coding Instruction: Code yes if the patient has any symptoms of heart failure on arrival or anytime within the past three months. For example, if a patient had symptoms within the past three months (even if there are no symptoms on arrival to the hospital), code yes. If there is documentation of symptoms (e.g. shortness of breath) but no documentation of heart failure, code yes. These indicate presence of symptomatic aortic stenosis.		Code: 60573004
Target Value: Any occurrence between 3 months prior to arrival at this facility and start of the procedure		Code System Name: SNOMED CT Short Name: SxAS Missing Data: Report Harvested: Yes (BDS, TAVR) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: CD Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TAVR ----- AND ----- Element: 13188 Symptoms of Aortic Stenosis Not Documented Operator: Equal Value: No (or Not Answered)

Boolean w/Unknown - 1.3.6.1.4.1.19376.1.4.1.6.5.444

Selection	Definition	Source	Code	Code System Name
No			100013073	ACC NCDR
Yes			100013072	ACC NCDR



Section: Presentation and Evaluation

Parent: Lab Visit

Element: 13188 Symptoms of Aortic Stenosis Not Documented		Technical Specification
Coding Instruction: Indicate whether there is no documentation of symptoms of aortic stenosis.		Code: 60573004
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: SxASND
		Missing Data: Report
		Harvested: Yes (BDS, TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TAVR

Element: 13191 Five Meter Walk Test Performed		Technical Specification
Coding Instruction: Indicate whether the five meter walk test was performed.		Code: 112000001179
Note: If the five meter walk test was performed, 3 walk tests should be documented. If the patient is unable to walk for all three tests, document the tests that were completed.		Code System Name: ACC NCDR
Target Value: The last value between 90 days prior to the start of the current procedure and the start of procedure		Short Name: FiveMWalkTest
Supporting Definition: Five Meter Walk Test		Missing Data: Report
An outcome measure in STS the Adult Cardiac Surgery Database to predict frailty in individuals who are candidates for cardiac surgery.		Harvested: Yes (BDS, TAVR)
Source:		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TAVR

Five Meter Walk Test Performed - 1.3.6.1.4.1.19376.1.4.1.6.5.456

Selection	Definition	Source	Code	Code System Name
Test Not Performed			112000001181	ACC NCDR
Test Performed			112000001180	ACC NCDR
Unable to Walk	The patient is physically unable to walk to perform this test. For example, the patient is wheelchair bound, has shortness of breath or other symptoms that are so severe, they are unable to walk.		112000001182	ACC NCDR



Section: Presentation and Evaluation

Parent: Lab Visit

Element: 13710		Technical Specification
Six Minute Walk Test		
Coding Instruction:	Indicate whether the six minute walk test was performed.	Code: 252478000
Target Value:	The last value between 90 days prior to the start of the current procedure and the start of procedure	Code System Name: SNOMED CT
		Short Name: SixMinWalkPerf
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVR
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: Tricuspid Valve Procedure
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVr



Section: STS Risk Score

Parent: Presentation and Evaluation

Element: 13698	Society of Thoracic Surgeons Risk Score Type	Technical Specification
Coding Instruction:	Indicate the patient's predicted risk of mortality for surgical valve replacement or repair as determined by the heart team and based on the Society for Thoracic Surgeon's risk model. The following STS risk scores should be documented based on the STS Adult Cardiac Surgery Risk Calculator: TAVR: Isolated aortic valve replacement TMVR: Isolated mitral valve replacement Mitral Leaflet Clip Procedure: mitral valve repair and isolated mitral valve replacement Note: Currently there is not a risk score available for tricuspid procedures.	Code: 112000001412 Code System Name: ACC NCDR Short Name: STSRiskScoreType Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: CD Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Target Value:	The last value prior to the start of the first procedure	
Vendor Instruction:	When Society of Thoracic Surgeons Risk Score Type (13698) is Equal to (Society of Thoracic Surgeons Risk Score for Aortic Valve Replacement) then Transcatheter Valve Therapy Procedure Type (14273) must be Equal to (TAVR) When Society of Thoracic Surgeons Risk Score Type (13698) is Equal to (Society of Thoracic Surgeons Risk Score for Mitral Valve Replacement) then Transcatheter Valve Therapy Procedure Type (14273) must be Equal to (TMVr) When Society of Thoracic Surgeons Risk Score Type (13698) is Equal to (Society of Thoracic Surgeons Risk Score for Mitral Valve Replacement) then Transcatheter Valve Therapy Procedure Type (14273) must be Equal to (TMVR,TMVr) A Society of Thoracic Surgeons Risk Score Type (13698) may only be entered/selected once	Parent/Child Validation Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TAVR Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TMVr Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TMVR

Society of Thoracic Surgeons Risk Score Type - 1.3.6.1.4.1.19376.1.4.1.6.5.693

Selection	Definition	Source	Code	Code System Name
Society of Thoracic Surgeons Risk Score for Aortic Valve Replacement			112000001796	ACC NCDR
Society of Thoracic Surgeons Risk Score for Mitral Valve Repair			112000001795	ACC NCDR
Society of Thoracic Surgeons Risk Score for Mitral Valve Replacement			112000001793	ACC NCDR



Section: STS Risk Score

Parent: Presentation and Evaluation

Element: 14271		Society of Thoracic Surgeons Risk Score Measurement	
Coding Instruction:	Indicate the patient's predicted risk of mortality for surgical valve replacement or repair as determined by the heart team and based on the Society for Thoracic Surgeon's risk calculator (https://www.sts.org/resources/risk-calculator)		
	Target Value:	The last value prior to the start of the first procedure	



Section: Shared Decision Making

Parent: Presentation and Evaluation

Element: 14732		Shared Decision Making	Technical Specification
Coding Instruction:		Indicate if shared decision making was performed for the procedure.	Code: 112000002041
Target Value:		The value on current procedure	Code System Name: ACC NCDR
Supporting Definition:		Shared Decision Making Shared decision making occurs when a health care provider and a patient work together to make a health care decision that is best for the patient. The optimal decision takes into account evidence-based information about available options, the provider's knowledge and experience, and the patient's values and preferences. Source: AHRQ.gov	Short Name: SDM_Proc Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Usual Range: Valid Range: Data Source: User
Element: 14733		Shared Decision Making Tool Used	Technical Specification
Coding Instruction:		Indicate if a shared decision making tool was used.	Code: 415806002
Target Value:		The value on current procedure	Code System Name: SNOMED CT
			Short Name: SDM_Tool Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Usual Range: Valid Range: Data Source: User
			Parent/Child Validation
Element:		14732	Shared Decision Making
Operator:		Equal	
Value:		Yes	



Section: Shared Decision Making

Parent: Presentation and Evaluation

Element: 14734		Shared Decision Making Tool Name	Technical Specification
Coding Instruction:		Indicate what tool was used. If the tool used is not in the drop-down list, please contact NCDR@acc.org to have a selection added.	Code: 405083000
Target Value:		The value on current procedure	Code System Name: SNOMED CT
			Short Name: SDM_Tool_Name
			Missing Data: Report
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: CD
			Precision:
			Selection Type: Single (Dynamic List)
			Unit of Measure:
			Default Value:
			Usual Range:
			Valid Range:
			Data Source: User
Parent/Child Validation			
Element: 14733		Shared Decision Making Tool	
		Used	
Operator: Equal			
Value: Yes			

Shared Decision Making Tools - 1.3.6.1.4.1.19376.1.4.1.6.5.765

Selection	Definition	Source	Code	Code System Name
Other Shared Decision Making Tool			100000351	ACC NCDR



Section: KCCQ12

Parent: Presentation and Evaluation

Element: 13843	Kansas City Cardiomyopathy Questionnaire 12 Performed	Technical Specification
Coding Instruction:	Indicate if the baseline Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed.	Code: 112000001540
Target Value:	The last value between 90 days prior to the start of the current procedure and the start of procedure	Code System Name: ACC NCDR
		Short Name: KCCQ12_Performed
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 13846	Kansas City Cardiomyopathy Questionnaire 12 Question 1a	Technical Specification
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 1a.	Code: 112000001541
	Heart Failure Limitation - Showering/bathing	Code System Name: ACC NCDR
Target Value:	The last value between 90 days prior to the start of the current procedure and the start of procedure	Short Name: KCCQ12_1a
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13843 Kansas City Cardiomyopathy Questionnaire 12 Performed
		Operator: Equal
		Value: Yes

Kansas City Cardiomyopathy Questionnaire 1a thru 1c - 1.3.6.1.4.1.19376.1.4.1.6.5.570

Selection	Definition	Source	Code	Code System Name
1 - Extremely Limited			100001173	ACC NCDR
2 - Quite a Bit Limited			100001171	ACC NCDR
3 - Moderately Limited			100001170	ACC NCDR
4 - Slightly Limited			100014042	ACC NCDR
5 - Not at All Limited			100001167	ACC NCDR
6 - Limited for Other Reasons or Did Not Do These Activities			100014041	ACC NCDR



Section: KCCQ12

Parent: Presentation and Evaluation

Element: 13848		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 1b		Code: 112000001542
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 1b.	Code System Name: ACC NCDR
	Heart Failure Limitation - Walking 1 block on level ground	Short Name: KCCQ12_1b
Target Value:	The last value between 90 days prior to the start of the current procedure and the start of procedure	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13843	Kansas City Cardiomyopathy Questionnaire 12 Performed	
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 1a thru 1c - 1.3.6.1.4.1.19376.1.4.1.6.5.570

Selection	Definition	Source	Code	Code System Name
1 - Extremely Limited			100001173	ACC NCDR
2 - Quite a Bit Limited			100001171	ACC NCDR
3 - Moderately Limited			100001170	ACC NCDR
4 - Slightly Limited			100014042	ACC NCDR
5 - Not at All Limited			100001167	ACC NCDR
6 - Limited for Other Reasons or Did Not Do These Activities			100014041	ACC NCDR



Section: KCCQ12

Parent: Presentation and Evaluation

Element: 13849		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 1c		Code: 112000001543
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 1c.	Code System Name: ACC NCDR
	Heart Failure Limitation - Hurrying or jogging	Short Name: KCCQ12_1c
Target Value:	The last value between 90 days prior to the start of the current procedure and the start of procedure	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13843 Kansas City Cardiomyopathy Questionnaire 12 Performed		
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 1a thru 1c - 1.3.6.1.4.1.19376.1.4.1.6.5.570

Selection	Definition	Source	Code	Code System Name
1 - Extremely Limited			100001173	ACC NCDR
2 - Quite a Bit Limited			100001171	ACC NCDR
3 - Moderately Limited			100001170	ACC NCDR
4 - Slightly Limited			100014042	ACC NCDR
5 - Not at All Limited			100001167	ACC NCDR
6 - Limited for Other Reasons or Did Not Do These Activities			100014041	ACC NCDR



Section: KCCQ12

Parent: Presentation and Evaluation

Element: 13851		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 2		Code: 112000001544
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 2.	Code System Name: ACC NCDR
	Symptom Frequency - swelling in legs	Short Name: KCCQ12_2
Target Value:	The last value between 90 days prior to the start of the current procedure and the start of procedure	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13843 Kansas City Cardiomyopathy Questionnaire 12 Performed		
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 12 Answer to Question 2 - 1.3.6.1.4.1.19376.1.4.1.6.5.571

Selection	Definition	Source	Code	Code System Name
1 - Every Morning			112000001553	ACC NCDR
2 - Three or More Times Per Week But Not Everyday			112000001554	ACC NCDR
3 - One to Two Times Per Week			112000001555	ACC NCDR
4 - Less Than Once a Week			112000001556	ACC NCDR
5 - Never Over the Past Two Weeks			112000001557	ACC NCDR



Section: KCCQ12

Parent: Presentation and Evaluation

Element: 13853		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 3		Code: 112000001545
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 3.	Code System Name: ACC NCDR
	Symptom Frequency - fatigue	Short Name: KCCQ12_3
Target Value:	The last value between 90 days prior to the start of the current procedure and the start of procedure	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13843 Kansas City Cardiomyopathy Questionnaire 12 Performed		
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 12 Answer to Question 3 and 4 - 1.3.6.1.4.1.19376.1.4.1.6.5.572

Selection	Definition	Source	Code	Code System Name
1 - All the Time			112000001818	ACC NCDR
2 - Several Times Per Day			112000001559	ACC NCDR
3 - At Least Once Per Day			112000001560	ACC NCDR
4 - Three or More Times Per Week But Not Everyday			112000001554	ACC NCDR
5 - One to Two Times Per Week			112000001555	ACC NCDR
6 - Less Than Once a Week			112000001556	ACC NCDR
7 - Never Over the Past Two Weeks			112000001557	ACC NCDR



Section: KCCQ12

Parent: Presentation and Evaluation

Element: 13855		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 4		Code: 112000001546
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 4.	Code System Name: ACC NCDR
	Symptom Frequency - shortness of breath	Short Name: KCCQ12_4
Target Value:	The last value between 90 days prior to the start of the current procedure and the start of procedure	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13843 Kansas City Cardiomyopathy Questionnaire 12 Performed		
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 12 Answer to Question 3 and 4 - 1.3.6.1.4.1.19376.1.4.1.6.5.572

Selection	Definition	Source	Code	Code System Name
1 - All the Time			112000001818	ACC NCDR
2 - Several Times Per Day			112000001559	ACC NCDR
3 - At Least Once Per Day			112000001560	ACC NCDR
4 - Three or More Times Per Week But Not Everyday			112000001554	ACC NCDR
5 - One to Two Times Per Week			112000001555	ACC NCDR
6 - Less Than Once a Week			112000001556	ACC NCDR
7 - Never Over the Past Two Weeks			112000001557	ACC NCDR



Section: KCCQ12

Parent: Presentation and Evaluation

Element: 13857		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 5		Code: 112000001547
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 5.	Code System Name: ACC NCDR
	Symptom Frequency - sleep sitting up due to shortness of breath	Short Name: KCCQ12_5
Target Value:	The last value between 90 days prior to the start of the current procedure and the start of procedure	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13843 Kansas City Cardiomyopathy Questionnaire 12 Performed		
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 12 Answer to Question 5 - 1.3.6.1.4.1.19376.1.4.1.6.5.704

Selection	Definition	Source	Code	Code System Name
1 - Every Night			112000001819	ACC NCDR
2 - Three or More Times Per Week But Not Everyday			112000001554	ACC NCDR
3 - One to Two Times Per Week			112000001555	ACC NCDR
4 - Less Than Once a Week			112000001556	ACC NCDR
5 - Never Over the Past Two Weeks			112000001557	ACC NCDR



Section: KCCQ12

Parent: Presentation and Evaluation

Element: 13859		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 6		Code: 112000001548
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 6.	Code System Name: ACC NCDR
	Quality of Life - effect on enjoyment of life due to heart failure	Short Name: KCCQ12_6
Target Value:	The last value between 90 days prior to the start of the current procedure and the start of procedure	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13843 Kansas City Cardiomyopathy Questionnaire 12 Performed		
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 12 Answer to Question 6 - 1.3.6.1.4.1.19376.1.4.1.6.5.573

Selection	Definition	Source	Code	Code System Name
1 - It Has Extremely Limited My Enjoyment of Life			100014049	ACC NCDR
2 - It Has Limited My Enjoyment of Life Quite a Bit			100014050	ACC NCDR
3 - It Has Moderately Limited My Enjoyment of Life			100014051	ACC NCDR
4 - It Has Slightly Limited My Enjoyment of Life			100014052	ACC NCDR
5 - It Has Not Limited My Enjoyment of Life at All			100014053	ACC NCDR



Section: KCCQ12

Parent: Presentation and Evaluation

Element: 13861		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 7		Code: 112000001549
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 7.	Code System Name: ACC NCDR
	Quality of life - remaining life with heart failure	Short Name: KCCQ12_7
Target Value:	The last value between 90 days prior to the start of the current procedure and the start of procedure	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13843 Kansas City Cardiomyopathy Questionnaire 12 Performed		
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 12 Answer to Question 7 - 1.3.6.1.4.1.19376.1.4.1.6.5.574

Selection	Definition	Source	Code	Code System Name
1 - Not At All Satisfied			112000001561	ACC NCDR
2 - Mostly Dissatisfied			112000001562	ACC NCDR
3 - Somewhat Satisfied			112000001563	ACC NCDR
4 - Mostly Satisfied			112000001564	ACC NCDR
5 - Completely Satisfied			112000001565	ACC NCDR



Section: KCCQ12

Parent: Presentation and Evaluation

Element: 13863		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 8a		Code: 112000001550
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 8a.	Code System Name: ACC NCDR
	Social limitation - hobbies, recreational activities	Short Name: KCCQ12_8a
Target Value:	The last value between 90 days prior to the start of the current procedure and the start of procedure	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13843 Kansas City Cardiomyopathy Questionnaire 12 Performed		
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 12 Answer to Question 8 - 1.3.6.1.4.1.19376.1.4.1.6.5.575

Selection	Definition	Source	Code	Code System Name
1 - Severely Limited			112000001566	ACC NCDR
2 - Limited Quite a Bit			112000001567	ACC NCDR
3 - Moderately Limited			100001170	ACC NCDR
4 - Slightly Limited			100014042	ACC NCDR
5 - Did Not Limit at All			112000001569	ACC NCDR
6 - Does Not Apply or Did Not Do for Other Reasons			112000001570	ACC NCDR



Section: KCCQ12

Parent: Presentation and Evaluation

Element: 13865		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 8b		Code: 112000001551
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 8b.	Code System Name: ACC NCDR
	Social limitation - working or doing household chores	Short Name: KCCQ12_8b
Target Value:	The last value between 90 days prior to the start of the current procedure and the start of procedure	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13843 Kansas City Cardiomyopathy Questionnaire 12 Performed		
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 12 Answer to Question 8 - 1.3.6.1.4.1.19376.1.4.1.6.5.575

Selection	Definition	Source	Code	Code System Name
1 - Severely Limited			112000001566	ACC NCDR
2 - Limited Quite a Bit			112000001567	ACC NCDR
3 - Moderately Limited			100001170	ACC NCDR
4 - Slightly Limited			100014042	ACC NCDR
5 - Did Not Limit at All			112000001569	ACC NCDR
6 - Does Not Apply or Did Not Do for Other Reasons			112000001570	ACC NCDR



Section: KCCQ12

Parent: Presentation and Evaluation

Element: 13867		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 8c		
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 8c.	Code: 112000001552
	Social limitation - visiting family or friends	Code System Name: ACC NCDR
Target Value:	The last value between 90 days prior to the start of the current procedure and the start of procedure	Short Name: KCCQ12_8c
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13843	Kansas City Cardiomyopathy Questionnaire 12 Performed	
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 12 Answer to Question 8 - 1.3.6.1.4.1.19376.1.4.1.6.5.575

Selection	Definition	Source	Code	Code System Name
1 - Severely Limited			112000001566	ACC NCDR
2 - Limited Quite a Bit			112000001567	ACC NCDR
3 - Moderately Limited			100001170	ACC NCDR
4 - Slightly Limited			100014042	ACC NCDR
5 - Did Not Limit at All			112000001569	ACC NCDR
6 - Does Not Apply or Did Not Do for Other Reasons			112000001570	ACC NCDR

Element: 14310		Technical Specification
KCCQ Overall Summary Score		
Coding Instruction:	(Auto Calculated) This field is auto-populated by your application. Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Overall Summary Score.	Code: 112000001540
	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.	Code System Name: ACC NCDR
Target Value:	The value on start of current procedure	Short Name: KCCQ12_Overall
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: NUM
		Precision: 5,2
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: Computed
Parent/Child Validation		
Element: 13843	Kansas City Cardiomyopathy Questionnaire 12 Performed	
Operator: Equal		
Value: Yes		



Section: Five Meter Walk Test

Parent: Presentation and Evaluation

Element: 13199		Five Meter Walk Test Counter	Technical Specification
Coding Instruction:		The software assigned five meter walk test counter should start at one and be incremented by one for each test performed, in chronological order, during the clinical encounter. The five meter walk test number should be assigned sequentially in ascending order. Do not skip numbers.	Code: 112000002003
		Note: If the five meter walk test was performed, 3 walk tests should be documented. If the patient is unable to walk for all three tests, document the tests that were completed.	Code System Name: ACC NCDR
Target Value: N/A			Short Name: FiveMWTCounter
Supporting Definition: Five Meter Walk Test		An outcome measure in STS the Adult Cardiac Surgery Database to predict frailty in individuals who are candidates for cardiac surgery.	Missing Data: Report
Source:			Harvested: Yes (BDS, TAVR)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: CTR
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: Automatic
			Parent/Child Validation
			Element: 13191 Five Meter Walk Test Performed
			Operator: Equal
			Value: Test Performed
Element: 13201		Five Meter Walk Test Time	Technical Specification
Coding Instruction:		Indicate the value of the five meter walk test in seconds.	Code: 112000001184
Target Value:		The value on current admission	Code System Name: ACC NCDR
Supporting Definition: Five Meter Walk Test		An outcome measure in STS the Adult Cardiac Surgery Database to predict frailty in individuals who are candidates for cardiac surgery.	Short Name: FiveMWTTTime
Source:			Missing Data: Report
			Harvested: Yes (BDS, TAVR)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 3,0
			Selection Type: Single
			Unit of Measure: sec
			Default Value: Null
			Usual Range: 1 - 100 sec
			Valid Range: 1 - 500 sec
			Data Source: User
			Parent/Child Validation
			Element: 13191 Five Meter Walk Test Performed
			Operator: Equal
			Value: Test Performed



Section: Six Minute Walk Test

Parent: Presentation and Evaluation

Element: 13711		Technical Specification
Six Minute Walk Test Date		
Coding Instruction:	Indicate the date the six minute walk test was performed.	Code: 252478000
Target Value:	The last value between 90 days prior to the start of the current procedure and the start of procedure	Code System Name: SNOMED CT
		Short Name: SixMinWalkDate
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: DT
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13710 Six Minute Walk Test
		Operator: Equal
		Value: Yes

Element: 13712		Technical Specification
Six Minute Walk Test Total Distance		
Coding Instruction:	Indicate the total distance, in feet, the patient walked.	Code: 112000001422
Target Value:	The last value between 90 days prior to the start of the current procedure and the start of procedure	Code System Name: ACC NCDR
		Short Name: SixMinWalkDist
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 4,0
		Selection Type: Single
		Unit of Measure: ft
		Default Value: Null
		Usual Range: 1 - 3,000 ft
		Valid Range: 1 - 3,000 ft
		Data Source: User
		Parent/Child Validation
		Element: 13710 Six Minute Walk Test
		Operator: Equal
		Value: Yes



Section: Six Minute Walk Test

Parent: Presentation and Evaluation

Element: 14262		Technical Specification
Six Minute Walk Test Reason Not Performed		Code: 252478000
Coding Instruction: Indicate the reason why the six minute walk test was not performed.		Code System Name: SNOMED CT
Target Value: The last value between 90 days prior to the start of the current procedure and the start of procedure		Short Name: SixMinWalkReason
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13710	Six Minute Walk Test	
Operator: Equal		
Value: No		

Six Minute Walk Test Reason Not Performed - 1.3.6.1.4.1.19376.1.4.1.6.5.544

Selection	Definition	Source	Code	Code System Name
Non-Cardiac Reason			112000001418	ACC NCDR
Cardiac Reason			112000001419	ACC NCDR
Patient Not Willing to Walk			112000001420	ACC NCDR
Not Performed by Site			112000001421	ACC NCDR



Section: Pre-Procedure Clinical Data

Parent: Presentation and Evaluation

Element: 6030		Technical Specification
Hemoglobin		Code: 718-7
Coding Instruction: Indicate the hemoglobin (Hgb) value in g/dL.		Code System Name: LOINC
Note(s): This may include POC (Point of Care) testing results or results obtained prior to arrival at this facility.		Short Name: HGB
Target Value: The last value within 30 days prior to the first procedure in this admission		Missing Data: Report
Supporting Definition: Hemoglobin Hemoglobin (Hb or Hgb) is the iron-containing oxygen-transport metalloprotein in the red blood cells. It carries oxygen from the lungs to the rest of the body (i.e. the tissues) where it releases the oxygen to burn nutrients and provide energy. Hemoglobin concentration measurement is among the most commonly performed blood tests, usually as part of a complete blood count. If the concentration is below normal, this is called anemia. Anemias are classified by the size of red blood cells: "microcytic" if red cells are small, "macrocytic" if they are large, and "normocytic" if otherwise. Dehydration or hyperhydration can greatly influence measured hemoglobin levels. Source: http://s.details.loinc.org/LOINC/718-7.html?sections=Simple		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 4,2
		Selection Type: Single
		Unit of Measure: g/dL
		Default Value: Null
		Usual Range: 5.00 - 20.00 g/dL
		Valid Range: 1.00 - 50.00 g/dL
		Data Source: User
		Parent/Child Validation
		Element: 6031 Hemoglobin Not Drawn
		Operator: Equal
		Value: No (or Not Answered)

Element: 6031		Technical Specification
Hemoglobin Not Drawn		Code: 718-7
Coding Instruction: Indicate if the hemoglobin was not drawn.		Code System Name: LOINC
Target Value: The last value within 30 days prior to the first procedure in this admission		Short Name: HGBND
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



Section: Pre-Procedure Clinical Data

Parent: Presentation and Evaluation

Element: 6035		Technical Specification
Sodium		Code: 2950-4
Coding Instruction:	Indicate the sodium (Na) level, in mEq/L.	Code System Name: LOINC
Target Value:	The last value within 30 days prior to the first procedure in this admission	Short Name: Sodium
Supporting Definition:	Sodium Sodium is an essential nutrient that regulates blood volume, blood pressure, osmotic equilibrium and electrolyte balance. Sodium chloride is the principal source of sodium in the diet, and is used for seasoning and as a preservative. Increased levels of sodium intake can cause hypertension and reportedly leads to 7.6 million premature deaths worldwide. Sodium is also important in neuron function and osmoregulation between cells and the extracellular fluid. Source: http://s.details.loinc.org/LOINC/2950-4.html?sections=Simple	Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mEq/L
		Default Value: Null
		Usual Range: 120 - 150 mEq/L
		Valid Range: 1 - 300 mEq/L
		Data Source: User
		Parent/Child Validation
		Element: 6036 Sodium Not Drawn
		Operator: Equal
		Value: No (or Not Answered)

Element: 6036		Technical Specification
Sodium Not Drawn		Code: 2950-4
Coding Instruction:	Indicate if the sodium level was not drawn.	Code System Name: LOINC
Target Value:	The last value within 30 days prior to the first procedure in this admission	Short Name: SodiumND
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



Section: Pre-Procedure Clinical Data

Parent: Presentation and Evaluation

Element: 6050		Technical Specification
Creatinine		
Coding Instruction: Indicate the creatinine (Cr) level mg/dL.		Code: 2160-0
		Code System Name: LOINC
		Short Name: PreProcCreat
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 4,2
		Selection Type: Single
		Unit of Measure: mg/dL
		Default Value: Null
		Usual Range: 0.10 - 5.00 mg/dL
		Valid Range: 0.10 - 30.00 mg/dL
		Data Source: User
		Parent/Child Validation
		Element: 6051 Creatinine Not Drawn
		Operator: Equal
		Value: No (or Not Answered)

Element: 6051		Technical Specification
Creatinine Not Drawn		
Coding Instruction: Indicate if a creatinine level was not drawn.		Code: 2160-0
		Code System Name: LOINC
		Short Name: PreProcCreatND
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



Section: Pre-Procedure Clinical Data

Parent: Presentation and Evaluation

Element: 6055		Technical Specification
Bilirubin (Total)		
Coding Instruction: Indicate the total bilirubin (mg/dL)		Code: 42719-5
Note(s): This may include POC (Point of Care) testing results.		Code System Name: LOINC
Target Value: The last value between 30 days prior to the procedure and the current procedure		Short Name: Bilirubin
Supporting Definition: Bilirubin (Total) Bilirubin is the brownish yellow breakdown product of normal red blood cell, specifically heme, catabolism. Bilirubin is excreted in bile, and its levels are elevated in certain diseases including bile obstruction, hepatitis, cirrhosis, liver or pancreatic tumor, hemolysis, certain medications and inherited disorders. Levels of bilirubin in amniotic fluid are indicative of the severity of fetal hemolysis as in Rh disease. It is responsible for the brownish yellow color of bruises and in jaundice. Source: http://s.details.loinc.org/LOINC/42719-5.html?sections=Simple		Missing Data: Report
		Harvested: Yes (TAVR, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 4,2
		Selection Type: Single
		Unit of Measure: mg/dL
		Default Value: Null
		Usual Range: 0.05 - 1.50 mg/dL
		Valid Range: 0.01 - 30.00 mg/dL
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TAVR
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: Tricuspid Valve Procedure
		----- AND -----
		Element: 6056 Bilirubin Not Drawn
		Operator: Equal
		Value: No (or Not Answered)

Element: 6056		Technical Specification
Bilirubin Not Drawn		
Coding Instruction: Indicate if the total Bilirubin was not drawn.		Code: 42719-5
Target Value: N/A		Code System Name: LOINC
		Short Name: BilirubinND
		Missing Data: Report
		Harvested: Yes (TAVR, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TAVR
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: Tricuspid Valve Procedure



Section: Pre-Procedure Clinical Data

Parent: Presentation and Evaluation

Element: 14210 Albumin		Technical Specification
Coding Instruction: Indicate the total albumin (in g/dL).		Code: 52454007
Target Value: The last value between 30 days prior to the procedure and the current procedure		Code System Name: SNOMED CT
		Short Name: Albumin
		Missing Data: Report
		Harvested: Yes (TAVR, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 3,1
		Selection Type: Single
		Unit of Measure: g/dL
		Default Value: Null
		Usual Range: 3.5 - 5.0 g/dL
		Valid Range: 1.0 - 10.0 g/dL
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TAVR
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: Tricuspid Valve Procedure
		----- AND -----
		Element: 14211 Albumin Not Drawn
		Operator: Equal
		Value: No (or Not Answered)

Element: 14211 Albumin Not Drawn		Technical Specification
Coding Instruction: Indicate true if the total albumin was not drawn		Code: 52454007
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: Albumin_ND
		Missing Data: Report
		Harvested: Yes (TAVR, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TAVR
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: Tricuspid Valve Procedure



Section: Pre-Procedure Clinical Data

Parent: Presentation and Evaluation

Element: 13213		Platelet Count	Technical Specification
Coding Instruction:		Indicate the pre-procedure platelet count in platelets per microliter.	Code: 777-3
Target Value:		The last value between 30 days prior to the procedure and the current procedure	Code System Name: LOINC
Supporting Definition:		Platelet Count A laboratory test used to determine of the number of platelets in a blood sample. Source: NCI Thesaurus.	Short Name: PlateletCt Missing Data: Report Harvested: Yes (BDS, TAVR, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: PQ Precision: 6,0 Selection Type: Single Unit of Measure: µL Default Value: Null Usual Range: 150,000 - 400,000 µL Valid Range: 1,000 - 900,000 µL Data Source: User
			Parent/Child Validation
Element: 14273		Transcatheter Valve Therapy Procedure Type	Operator: Equal Value: TAVR
Element: 14273		Transcatheter Valve Therapy Procedure Type	Operator: Equal Value: Tricuspid Valve Procedure
			----- AND -----
Element: 13214		Platelet Count Not Drawn	Operator: Equal Value: No (or Not Answered)

Element: 13214		Platelet Count Not Drawn	Technical Specification
Coding Instruction:		Indicate if a platelet count was not drawn prior to the procedure.	Code: 777-3
Target Value:		N/A	Code System Name: LOINC
Supporting Definition:		Platelet Count A laboratory test used to determine of the number of platelets in a blood sample. Source: NCI Thesaurus.	Short Name: PlateletCtND Missing Data: Report Harvested: Yes (BDS, TAVR, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
			Parent/Child Validation
Element: 14273		Transcatheter Valve Therapy Procedure Type	Operator: Equal Value: TAVR
Element: 14273		Transcatheter Valve Therapy Procedure Type	Operator: Equal Value: Tricuspid Valve Procedure



Section: Pre-Procedure Clinical Data

Parent: Presentation and Evaluation

Element: 13203		INR	Technical Specification
Coding Instruction:		Indicate the international normalized ratio (INR) if the patient is on routine warfarin or coumadin therapy.	Code: 34714-6
Target Value:		The last value between 30 days prior to the procedure and the current procedure	Code System Name: LOINC
Supporting Definition:		International Normalized Ratio (INR) The INR is specifically intended for evaluating protime results on patients stabilized on long term oral anticoagulant therapy. The INR is not appropriate to evaluate hemostatic function in patients with liver disease, for screening for hereditary factor deficiencies or acquired vitamin K deficiencies, or for routine preoperative screening; this should be evaluated on the normal range in seconds. INR is calculated by the equation, $INR = (PTR)^{ISI}$, where ISI = International Sensitivity Index (assigned to each reagent thromboplastin). PTR = prothrombin time ratio (pat PT/pop mean PT). Computation of the INR of specific thromboplastin reagent should allow for uniformity in prothrombin time testing regardless of the reagent system or instrumentation used. Source: http://s.details.loinc.org/LOINC/6301-6.html?sections=Simple	Short Name: INRtvt Missing Data: Report Harvested: Yes (TAVR, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: PQ Precision: 3,1 Selection Type: Single Unit of Measure: Default Value: Null Usual Range: 0.9 - 1.3 Valid Range: 0.5 - 30.0 Data Source: User
			Parent/Child Validation
Element: 14273		Transcatheter Valve Therapy Procedure Type	Operator: Equal Value: TAVR
Element: 14273		Transcatheter Valve Therapy Procedure Type	Operator: Equal Value: Tricuspid Valve Procedure
			----- AND -----
Element: 6046		International Normalized Ratio Not Drawn	Operator: Equal Value: No (or Not Answered)

Element: 6046		International Normalized Ratio Not Drawn	Technical Specification
Coding Instruction:		Indicate if INR was not drawn.	Code: 34714-6
Target Value:		N/A	Code System Name: LOINC
			Short Name: INRND
			Missing Data: Report
			Harvested: Yes (TAVR, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
Element: 14273		Transcatheter Valve Therapy Procedure Type	Operator: Equal Value: TAVR
Element: 14273		Transcatheter Valve Therapy Procedure Type	Operator: Equal Value: Tricuspid Valve Procedure



Section: Pre-Procedure Clinical Data

Parent: Presentation and Evaluation

Element: 14280		BNP	Technical Specification
Coding Instruction:		Indicate the B-type natriuretic peptide (BNP) value.	Code: 42637-9
Target Value:		The last value between birth and the first procedure in this admission	Code System Name: LOINC
Supporting Definition:		Natriuretic peptide B Brain natriuretic peptide (BNP) is an active fragment (1-32) of ProBNP which is produced by myocardial cells. It increases in both right-sided and left-sided heart failure as well as in systolic and diastolic heart failure. Thus, it is used to diagnose and manage heart failure. When a patient is taking recombinant PBN (Natricor), BNP will reflect serum levels. NT-ProBNP, an inactive fragment (1-78) of ProBNP is used to assess the degree of failure. Both of these polypeptides have roughly the same predictive power. NT-ProBNP is commonly called ProBNP. Source: http://s.details.loinc.org/LOINC/42637-9.html?sections=Simple	Short Name: PreProc_BNPValue Missing Data: Report Harvested: Yes (TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: PQ Precision: 5,0 Selection Type: Single Unit of Measure: pg/mL Default Value: Null Usual Range: 5 - 1,000 pg/mL Valid Range: 1 - 10,000 pg/mL Data Source: User
			Parent/Child Validation
			Element: 13205 B-Type Natriuretic Peptide Not Drawn Operator: Equal Value: No (or Not Answered) ----- AND -----
			Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TMVR
			Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: Tricuspid Valve Procedure
			Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TMVr



Section: Pre-Procedure Clinical Data

Parent: Presentation and Evaluation

Element: 13205		B-Type Natriuretic Peptide Not Drawn	Technical Specification
Coding Instruction:		Indicate if a pre-procedure B-type natriuretic peptide (BNP) was not collected.	Code: 42637-9
Target Value:		N/A	Code System: LOINC
			Name: PreProcBNPNotDrawn
			Short Name: PreProcBNPNotDrawn
			Missing Data: Report
			Harvested: Yes (TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
Element: 14273		Transcatheter Valve Therapy Procedure Type	Operator: Equal
			Value: TMVR
Element: 14273		Transcatheter Valve Therapy Procedure Type	Operator: Equal
			Value: Tricuspid Valve Procedure
Element: 14273		Transcatheter Valve Therapy Procedure Type	Operator: Equal
			Value: TMVr



Section: Pre-Procedure Clinical Data

Parent: Presentation and Evaluation

Element: 14279		Technical Specification
N-Terminal Pro B-Type Natriuretic Peptide Value		
Coding Instruction:	Indicate the N-Terminal Pro B-Type Natriuretic Peptide (NT-proBNP) Value.	Code: 33762-6
Target Value:	The last value between 6 months prior to procedure and the start of the current procedure	Code System Name: LOINC
Supporting Definition:	N-Terminal Pro B-Type Natriuretic Peptide Value ProBNP is the 108 amino acid pro-hormone of BNP (Brain Naturetic Peptide) that is produced mainly in the left ventricle. The prohormone splits into two polypeptides- the biologically active but shorter BNP (77-108) and the longer N terminal (1-76) fragment called NT-proBNP. Commercial assays are available for NT-proBNP because of its usefulness in predicting cardiovascular risk. In one study, it was the single best predictor of survival among patients with the acute coronary syndrome. It also declines with successful treatment of left ventricular dysfunction and heart failure and is used by some to track the success of such treatment. No commercial assays exist for proBNP (the whole peptide)- though the trade name for one company NT-proBNP is "proBNP" -- a misnomer. We include proBNP as the a related name for NT-proBNP so that people who call it proBNP will find it in LOINC. Source: Regenstrief Help Source: http://s.details.loinc.org/LOINC/33762-6.html?sections=Simple	Short Name: PreProcedureNTBNP Missing Data: Report Harvested: Yes (TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: PQ Precision: 5,0 Selection Type: Single Unit of Measure: pg/mL Default Value: Null Usual Range: 5 - 30,000 pg/mL Valid Range: 5 - 30,000 pg/mL Data Source: User
		Parent/Child Validation
		Element: 13206 N-Terminal Pro B-Type Natriuretic Peptide Not Drawn
		Operator: Equal Value: No (or Not Answered) ----- AND -----
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal Value: TMVR
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal Value: Tricuspid Valve Procedure
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal Value: TMVr



Section: Pre-Procedure Clinical Data

Parent: Presentation and Evaluation

Element: 13206		Technical Specification
N-Terminal Pro B-Type Natriuretic Peptide Not Drawn		
Coding Instruction: Indicate if a pre-procedure N-terminal pro B-type natriuretic peptide (NT-proBNP) was not collected.		Code: 33762-6
Target Value: N/A		Code System Name: LOINC
		Short Name: PreProcNTBNPNotDrawn
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14273		Transcatheter Valve Therapy Procedure Type
Operator: Equal		
Value: TMVR		
Element: 14273		Transcatheter Valve Therapy Procedure Type
Operator: Equal		
Value: Tricuspid Valve Procedure		
Element: 14273		Transcatheter Valve Therapy Procedure Type
Operator: Equal		
Value: TMVr		



Section: Pre-Procedure ECG and Pulmonary Function

Parent: Presentation and Evaluation

Element: 13216		Forced Expiratory Volume in One Second Predicted	Technical Specification
Coding Instruction:		Indicate the FEV1 % predicted from the most recent pulmonary function test prior to procedure.	Code: 19925-7
Target Value:		The last value between 12 months prior to arrival and start of the first procedure	Code System LOINC
Supporting Definition:		FEV1 A test of lung function, the FEV1 is the volume exhaled during the first second of a forced expiratory maneuver started from the level of total lung capacity. It is the most frequently used index for assessing bronchoconstriction or bronchodilatation. FEV1% predicted is defined as FEV1% of the patient divided by the average FEV1% in the population for any person of similar age, sex and body composition. Source: NCI Thesaurus	Name: Short Name: FEV1 Missing Data: Report Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: PQ Precision: 3,0 Selection Type: Single Unit of Measure: % Default Value: Null Usual Range: 25 - 100 % Valid Range: 1 - 150 % Data Source: User
			Parent/Child Validation
			Element: 13217 Forced Expiratory Volume in One Second Predicted Not Performed
			Operator: Equal
			Value: No (or Not Answered)

Element: 13217		Forced Expiratory Volume in One Second Predicted Not Performed	Technical Specification
Coding Instruction:		Indicate whether % predicted Forced Expiratory Volume (FEV1) was not performed or the patient did not have a pulmonary function test prior to the procedure.	Code: 19925-7
Target Value:		N/A	Code System LOINC
Supporting Definition:		FEV1 A test of lung function, the FEV1 is the volume exhaled during the first second of a forced expiratory maneuver started from the level of total lung capacity. It is the most frequently used index for assessing bronchoconstriction or bronchodilatation. FEV1% predicted is defined as FEV1% of the patient divided by the average FEV1% in the population for any person of similar age, sex and body composition. Source: NCI Thesaurus	Name: Short Name: FEV1ND Missing Data: Report Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User



Section: Pre-Procedure ECG and Pulmonary Function

Parent: Presentation and Evaluation

Element: 13218		Diffusing Capacity of the Lungs for Carbon Monoxide Predicted	Technical Specification
Coding Instruction:		Indicate the % predicted diffusing capacity of the lungs for carbon monoxide (DLCO) value obtained for the patient. Choose the value that represents the lowest % predicted whether or not it is the simple DLCO or the DLCO/VA.	Code: 112000001185
Target Value:		The last value between 12 months prior to arrival and start of the first procedure	Code System: ACC NCDR
Supporting Definition:		DLCO A measurement of carbon monoxide (CO) transfer from inspired gas to pulmonary capillary blood. Source: NCI Thesaurus	Name: DLCOPred
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 3,0
			Selection Type: Single
			Unit of Measure: %
			Default Value: Null
			Usual Range: 10 - 150 %
			Valid Range: 1 - 200 %
			Data Source: User
			Parent/Child Validation
			Element: 13219 Diffusing Capacity of the Lungs for Carbon Monoxide Not Performed
			Operator: Equal
			Value: No (or Not Answered)

Element: 13219		Diffusing Capacity of the Lungs for Carbon Monoxide Not Performed	Technical Specification
Coding Instruction:		Indicate if a lung diffusion test (DLCO) was not performed.	Code: 112000001185
Target Value:		N/A	Code System: ACC NCDR
Supporting Definition:		DLCO A measurement of carbon monoxide (CO) transfer from inspired gas to pulmonary capillary blood. Source: NCI Thesaurus	Name: DLCOND
			Short Name: DLCOND
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User



Section: Pre-Procedure ECG and Pulmonary Function

Parent: Presentation and Evaluation

Element: 5055		Non-Ventricular Paced QRS duration	Technical Specification
Coding Instruction:		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.	Code: 251208001
		Note(s): If no ECG is available, a pre-procedure 6 inch cardiac rhythm strip or clinician documentation may be utilized to obtain this information.	Code System: SNOMED CT
			Name:
			Short Name: NVPQRS
			Missing Data: Report
			Harvested: Yes (TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 3,0
			Selection Type: Single
			Unit of Measure: msec
			Default Value: Null
			Usual Range: 20 - 250 msec
			Valid Range: 10 - 300 msec
			Data Source: User
			Parent/Child Validation
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: TMVR
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: TMVr
			----- AND -----
			Element: 5045 Only Ventricular Paced QRS Complexes Present
			Operator: Equal
			Value: No (or Not Answered)



Section: Pre-Procedure ECG and Pulmonary Function

Parent: Presentation and Evaluation

Element: 5045		Only Ventricular Paced QRS Complexes Present	Technical Specification
Coding Instruction:		Indicate if there were only ventricular paced QRS complexes present.	Code: 100001120
		Note(s):	Code System: ACC NCDR
		If the patient has some intrinsic ventricular complexes present, code "No".	Name:
		If no ECG is available, a pre-procedure 6 inch cardiac rhythm strip or clinician documentation may be utilized to obtain this information.	Short Name: VPQRS
			Missing Data: Report
			Harvested: Yes (TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: TMVR
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: TMVr



Section: Pre-Procedure Medication(s)

Parent: Presentation and Evaluation

Element: 13699 Anticoagulants Administered		Technical Specification
Coding Instruction: Indicate whether anticoagulants were administered.		Code: 112000001416
Target Value: Any occurrence between 24 hours prior to current procedure and up to current procedure		Code System Name: ACC NCDR
		Short Name: PreProcAnticoag
		Missing Data: Report
		Harvested: Yes (TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TAVR

Pre-procedure Medication Administration - 1.3.6.1.4.1.19376.1.4.1.6.5.44

Selection	Definition	Source	Code	Code System Name
No			100013073	ACC NCDR
Yes			100013072	ACC NCDR

Element: 13643 Positive Inotropes Administered		Technical Specification
Coding Instruction: Indicate if positive inotropes was administered.		Code: 112000001358
For patients requiring IV inotropic support, indicate positive inotropes only.		Code System Name: ACC NCDR
Target Value: Any occurrence between 24 hours prior to current procedure and up to current procedure		Short Name: PreOpInotropes
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVp)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Pre-procedure Medication Administration - 1.3.6.1.4.1.19376.1.4.1.6.5.44

Selection	Definition	Source	Code	Code System Name
No			100013073	ACC NCDR
Yes			100013072	ACC NCDR



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

Element: 13220		Diagnostic Catheterization Performed	Technical Specification
Coding Instruction:		Indicate whether diagnostic cardiac catheterization was performed.	Code: 41976001
Target Value:		The last value between 12 months prior to arrival and start of the first procedure	Code System Name: SNOMED CT
			Short Name: DxCathPer
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User

Element: 13222		Diagnostic Catheterization Date	Technical Specification
Coding Instruction:		Indicate the date the diagnostic catheterization was performed.	Code: 41976001
Target Value:		The last value between 12 months prior to arrival and start of the first procedure	Code System Name: SNOMED CT
			Short Name: DxCathDt
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: DT
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User

Parent/Child Validation	
Element: 13220	Diagnostic Catheterization Performed
Operator:	Equal
Value:	Yes



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

Element: 13381		Number of Diseased Vessels	Technical Specification
Coding Instruction:		Indicate the number of diseased major native coronary vessel systems: LAD system, circumflex system, and/or right system with $\geq 50\%$ narrowing of any vessel preoperatively.	Code: 112000000201
		Notes: 1. Do not include coronary artery bypass grafts. 2. Left main disease ($\geq 50\%$) 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.	Code System Name: ACC NCDR
			Short Name: NumDisV
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: CD
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 13382 Number of Diseased Vessels Not Documented
			Operator: Equal
			Value: No (or Not Answered)

Number of Diseased Vessels - 1.3.6.1.4.1.19376.1.4.1.6.5.380

Selection	Definition	Source	Code	Code System Name
None			100001231	ACC NCDR
One			112000000788	ACC NCDR
Two			112000000790	ACC NCDR
Three			112000000792	ACC NCDR

Element: 13382		Number of Diseased Vessels Not Documented	Technical Specification
Coding Instruction:		Indicate true if the number of diseased vessels was not documented in the medical record.	Code: 112000000201
			Code System Name: ACC NCDR
			Short Name: NumDisVND
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User

Target Value: N/A



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

Element: 13260		Left Main Stenosis Greater Than or Equal to 50 Percent	Technical Specification	
Coding Instruction:		Indicate whether the patient has left main coronary disease. Left main coronary disease is present when there is $\geq 50\%$ compromise of vessel diameter pre-operatively.	Code:	112000001186
Target Value:		The last value between 12 months prior to arrival and start of the first procedure	Code System Name:	ACC NCDR
Supporting Definition:		Left Main Stenosis Stenosis of the left main coronary artery. Source:	Short Name:	LMainDis
			Missing Data:	Report
			Harvested:	Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier:	No
			Is Base Element:	Yes
			Is Followup Element:	No
			Data Type:	CD
			Precision:	
			Selection Type:	Single
			Unit of Measure:	
			Default Value:	Null
			Usual Range:	
			Valid Range:	
			Data Source:	User
			Parent/Child Validation	
			Element:	13261 Left Main Stenosis Not Documented
			Operator:	Equal
			Value:	No (or Not Answered)

Boolean w/Unknown - 1.3.6.1.4.1.19376.1.4.1.6.5.444

Selection	Definition	Source	Code	Code System Name
No			100013073	ACC NCDR
Yes			100013072	ACC NCDR

Element: 13261		Left Main Stenosis Not Documented	Technical Specification	
Coding Instruction:		Indicate whether the % stenosis of the left main coronary artery was not documented.	Code:	112000001186
Target Value:		N/A	Code System Name:	ACC NCDR
Supporting Definition:		Left Main Stenosis Stenosis of the left main coronary artery. Source:	Short Name:	LMainDisND
			Missing Data:	Report
			Harvested:	Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier:	No
			Is Base Element:	Yes
			Is Followup Element:	No
			Data Type:	BL
			Precision:	
			Selection Type:	Single
			Unit of Measure:	
			Default Value:	Null
			Usual Range:	
			Valid Range:	
			Data Source:	User



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

Element: 13301		Proximal Left Anterior Descending Artery Disease Greater or Equal to 70 percent	Technical Specification	
Coding Instruction:		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%.	Code:	28248000
Target Value:		The last value between 12 months prior to arrival and start of the first procedure	Code System Name:	SNOMED CT
Supporting Definition:		LAD Stenosis Narrowing of the left anterior descending coronary artery. Source:	Short Name:	ProxLAD
			Missing Data:	Report
			Harvested:	Yes (BDS, TAVR, TMVR, TMVrpr, TTVp)
			Is Identifier:	No
			Is Base Element:	Yes
			Is Followup Element:	No
			Data Type:	CD
			Precision:	
			Selection Type:	Single
			Unit of Measure:	
			Default Value:	Null
			Usual Range:	
			Valid Range:	
			Data Source:	User
			Parent/Child Validation	
			Element:	13302 Proximal Left Anterior Descending Artery Disease Greater or Equal to 70 percent Not Documented
			Operator:	Equal
			Value:	No (or Not Answered)

Boolean w/Unknown - 1.3.6.1.4.1.19376.1.4.1.6.5.444

Selection	Definition	Source	Code	Code System Name
No			100013073	ACC NCDR
Yes			100013072	ACC NCDR

Element: 13302		Proximal Left Anterior Descending Artery Disease Greater or Equal to 70 percent Not Documented	Technical Specification	
Coding Instruction:		Indicate whether the % stenosis of the proximal left anterior descending coronary artery was not documented.	Code:	28248000
Target Value:		N/A	Code System Name:	SNOMED CT
Supporting Definition:		LAD Stenosis Narrowing of the left anterior descending coronary artery. Source:	Short Name:	ProxLADND
			Missing Data:	Report
			Harvested:	Yes (BDS, TAVR, TMVR, TMVrpr, TTVp)
			Is Identifier:	No
			Is Base Element:	Yes
			Is Followup Element:	No
			Data Type:	BL
			Precision:	
			Selection Type:	Single
			Unit of Measure:	
			Default Value:	Null
			Usual Range:	
			Valid Range:	
			Data Source:	User



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

Element: 13496 Syntax Score		Technical Specification
Coding Instruction: Indicate the syntax score documented in the medical record. The syntax score is required for patients with left main disease and/or 3 vessel disease in native coronary arteries. SYNTAX (Synergy between PCI with TAXUS drug-eluting stent and Cardiac Surgery) Score: a grading tool used to determine the complexity of CAD in native vessels. Target Value: The highest value between 12 months prior to the procedure and start of the procedure		Code: 10001424796 Code System Name: ACC NCDR Short Name: Syntax Missing Data: Report Harvested: Yes (TAVR) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: CD Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TAVR ----- AND ----- Element: 13497 Syntax Score Not Documented Operator: Equal Value: No (or Not Answered)

Syntax Score Tiers - 1.3.6.1.4.1.19376.1.4.1.6.5.504

Selection	Definition	Source	Code	Code System Name
Low Syntax Score (<22)	Low Syntax Score(<22)		10001424799	ACC NCDR
Intermediate Syntax Score (22- Intermediate Syntax Score (22-32)			10001424798	ACC NCDR
High Syntax Score (>= 33)	High Syntax Score (>= 33)		10001424797	ACC NCDR

Element: 13497 Syntax Score Not Documented		Technical Specification
Coding Instruction: Indicate if the syntax score was not documented in the medical record. Target Value: N/A		Code: 10001424796 Code System Name: ACC NCDR Short Name: SyntaxND Missing Data: Report Harvested: Yes (TAVR) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TAVR



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

Element: 13713		Cardiac Output	Technical Specification
Coding Instruction:		Indicate the cardiac output in L/min, documented by pre-procedure diagnostic cardiac cath findings.	Code: 82799009
Target Value:		The last value between 12 months prior to arrival and start of the first procedure	Code System Name: SNOMED CT
			Short Name: CardiacOutput
			Missing Data: Report
			Harvested: Yes (TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 3,1
			Selection Type: Single
			Unit of Measure: L/min
			Default Value: Null
			Usual Range: 2.0 - 8.0 L/min
			Valid Range: 0.1 - 10.0 L/min
			Data Source: User
			Parent/Child Validation
Element: 14273		Transcatheter Valve Therapy Procedure Type	
Operator: Equal			
Value: TMVR			
Element: 14273		Transcatheter Valve Therapy Procedure Type	
Operator: Equal			
Value: Tricuspid Valve Procedure			
Element: 14273		Transcatheter Valve Therapy Procedure Type	
Operator: Equal			
Value: TMVr			
----- AND -----			
Element: 13714		Cardiac Output Not Documented	
Operator: Equal			
Value: No (or Not Answered)			



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

Element: 13714		Cardiac Output Not Documented	Technical Specification
		Coding Instruction: Indicate if the cardiac output was not documented.	Code: 82799009
		Target Value: N/A	Code System Name: SNOMED CT
			Short Name: CardiacOutput_ND
			Missing Data: Report
			Harvested: Yes (TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: TMVR
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: TMVr



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

Element: 13715		Technical Specification
Pulmonary Capillary Wedge Pressure		
Coding Instruction: Indicate the pulmonary capillary wedge pressure, in mm Hg.		Code: 118433006
Target Value: The last value between 12 months prior to arrival and start of the first procedure		Code System Name: SNOMED CT
		Short Name: PCWP
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 2,0
		Selection Type: Single
		Unit of Measure: mm[Hg]
		Default Value: Null
		Usual Range: 6 - 12 mm[Hg]
		Valid Range: 1 - 75 mm[Hg]
		Data Source: User
Parent/Child Validation		
Element: 14273		Transcatheter Valve Therapy Procedure Type
Operator: Equal		
Value: TMVr		
Element: 14273		Transcatheter Valve Therapy Procedure Type
Operator: Equal		
Value: TMVR		
Element: 14273		Transcatheter Valve Therapy Procedure Type
Operator: Equal		
Value: Tricuspid Valve Procedure		
----- AND -----		
Element: 13716		Pulmonary Capillary Wedge Pressure Not Documented
Operator: Equal		
Value: No (or Not Answered)		



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

Element: 13716 Pulmonary Capillary Wedge Pressure Not Documented		Technical Specification
Coding Instruction: Indicate if the pulmonary capillary wedge pressure was not documented.		Code: 118433006
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: PCWP_ND
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14273	Transcatheter Valve Therapy Procedure Type	
Operator: Equal		
Value: TMVR		
Element: 14273	Transcatheter Valve Therapy Procedure Type	
Operator: Equal		
Value: Tricuspid Valve Procedure		
Element: 14273	Transcatheter Valve Therapy Procedure Type	
Operator: Equal		
Value: TMVr		



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

Element: 13719 Pulmonary Artery Mean Pressure		Technical Specification
Coding Instruction: Indicate the pulmonary artery mean pressure, in mm Hg.		Code: 112000001423
Target Value: The last value between 12 months prior to arrival and start of the first procedure		Code System Name: ACC NCDR
		Short Name: PAPMean
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 2,0
		Selection Type: Single
		Unit of Measure: mm[Hg]
		Default Value: Null
		Usual Range: 5 - 25 mm[Hg]
		Valid Range: 1 - 99 mm[Hg]
		Data Source: User
Parent/Child Validation		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TMVR		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: Tricuspid Valve Procedure		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TMVr		
----- AND -----		
Element: 13720 Pulmonary Artery Mean Pressure Not Documented		
Operator: Equal		
Value: No (or Not Answered)		



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

Element: 13720 Pulmonary Artery Mean Pressure Not Documented		Technical Specification
Coding Instruction: Indicate the pulmonary artery mean pressure, in mm Hg.		Code: 112000001423
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: PAPMean_ND
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVR
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: Tricuspid Valve Procedure
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVr
Element: 13717 Pulmonary Artery Systolic Pressure		Technical Specification
Coding Instruction: Indicate the pulmonary artery systolic pressure, in mm Hg.		Code: 250768007
Target Value: The last value between 12 months prior to arrival and start of the first procedure		Code System Name: SNOMED CT
		Short Name: PAPSys
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mm[Hg]
		Default Value: Null
		Usual Range: 10 - 35 mm[Hg]
		Valid Range: 1 - 150 mm[Hg]
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVR
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVr
		----- AND -----
		Element: 13718 Pulmonary Artery Systolic Pressure Not Documented
		Operator: Equal
		Value: No (or Not Answered)



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

Element: 13718 Pulmonary Artery Systolic Pressure Not Documented		Technical Specification
Coding Instruction: Indicate true if the pulmonary artery systolic pressure is not documented		Code: 250768007
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: PAPSys_ND
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVR
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVr

Element: 14291 Pulmonary Vascular Resistance		Technical Specification
Coding Instruction: Indicate the pulmonary vascular resistance in Woods units (mm Hg/L/min).		Code: 276901002
Target Value: The last value between 12 months prior to arrival and start of the first procedure		Code System Name: SNOMED CT
		Short Name: PVR
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 4,2
		Selection Type: Single
		Unit of Measure: Wood units
		Default Value: Null
		Usual Range: 0.10 - 10.00 Wood units
		Valid Range: 0.10 - 25.00 Wood units
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: Tricuspid Valve Procedure
		----- AND -----
		Element: 14289 Pulmonary Vascular Resistance Not Documented
		Operator: Equal
		Value: No (or Not Answered)



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

Element: 14289	Pulmonary Vascular Resistance Not Documented	Technical Specification
Coding Instruction: Indicate if the pulmonary vascular resistance was not documented.		Code: 276901002
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: PVRND
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: Tricuspid Valve Procedure



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

Element: 13829		Right Atrial Pressure Not Documented	Technical Specification
Coding Instruction:		Indicate if the mean right atrial pressure pre-procedure, was not documented.	Code: 276755008
Target Value:		N/A	Code System: SNOMED CT
			Name: MeanRAP_ND
			Short Name: MeanRAP_ND
			Missing Data: Report
			Harvested: Yes (TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: TMVR
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: TMVr
Element: 13303		Right Ventricular Systolic Pressure	Technical Specification
Coding Instruction:		Indicate the right ventricular systolic pressure in mm Hg recorded prior to the start of the procedure. Note: If more than one RVSP documented, code the highest value.	Code: 276772001
Target Value:		The highest value between 12 months prior to the procedure and start of the procedure	Code System: SNOMED CT
Supporting Definition:		RV Systolic Pressure	Name: RVSP
		The maximum pressure exerted into the systemic arterial circulation during the contraction of the right ventricle of the heart	Short Name: RVSP
		Source: NCI EVS	Missing Data: Report
			Harvested: Yes (TAVR, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 3,0
			Selection Type: Single
			Unit of Measure: mm[Hg]
			Default Value: Null
			Usual Range: 15 - 30 mm[Hg]
			Valid Range: 1 - 200 mm[Hg]
			Data Source: User
			Parent/Child Validation
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: TAVR
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure
			----- AND -----
			Element: 13304 Right Ventricular Systolic Pressure Not Documented
			Operator: Equal
			Value: No (or Not Answered)



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

Element: 13304		Right Ventricular Systolic Pressure Not Documented	Technical Specification
Coding Instruction:		Indicate if the right ventricular systolic pressure was not documented.	Code: 276772001
Target Value:		N/A	Code System Name: SNOMED CT
Supporting Definition:		RV Systolic Pressure	Short Name: RVSYSND
		The maximum pressure exerted into the systemic arterial circulation during the contraction of the right ventricle of the heart	Missing Data: Report
		Source: NCI EVS	Harvested: Yes (TAVR, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: TAVR
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure



Section: Pre-Procedure CTA Findings

Parent: Presentation and Evaluation

Element: 13422		Aortic Valve Annulus Assessment Method		Technical Specification	
Coding Instruction:		Indicate the method used to assess the aortic valve annulus size.		Code: 112000001238	
		Note: If the annulus was assessed with more than one method, code the findings based on computed tomography angiography (CTA). If CTA was not performed, code the measurement based on the assessment method (echo or other method) used to assess the annulus size to determine the size of the prosthetic valve implanted during the procedure.		Code System Name: ACC NCDR	
				Short Name: AVDAnnulusSizeMethod	
				Missing Data: Report	
				Harvested: Yes (TAVR)	
				Is Identifier: No	
				Is Base Element: Yes	
				Is Followup Element: No	
				Data Type: CD	
				Precision:	
				Selection Type: Single	
				Unit of Measure:	
				Default Value: Null	
				Usual Range:	
				Valid Range:	
				Data Source: User	
				Parent/Child Validation	
				Element: 14273 Transcatheter Valve Therapy Procedure Type	
				Operator: Equal	
				Value: TAVR	

Imaging Modalities - 1.3.6.1.4.1.19376.1.4.1.6.5.486

Selection	Definition	Source	Code	Code System Name
Computed Tomography Angiography			418272005	SNOMED CT
Transthoracic Echo (TTE)			433236007	SNOMED CT
Transesophageal Echocardiogram (TEE)			105376000	SNOMED CT
Other			100000351	ACC NCDR

Element: 13428		Aortic Valve Annulus Minimum Diameter		Technical Specification	
Coding Instruction:		Indicate the minimum diameter of the aortic valve annulus, in mm.		Code: 112000001804	
		Note: Document aortic valve annulus measurements that are available, preferably measured from a CT.		Code System Name: ACC NCDR	
				Short Name: AVAnnulusDia	
				Missing Data: Report	
				Harvested: Yes (TAVR)	
				Is Identifier: No	
				Is Base Element: Yes	
				Is Followup Element: No	
				Data Type: PQ	
				Precision: 3,1	
				Selection Type: Single	
				Unit of Measure: mm	
				Default Value: Null	
				Usual Range: 10.0 - 40.0 mm	
				Valid Range: 5.0 - 80.0 mm	
				Data Source: User	
				Parent/Child Validation	
				Element: 14273 Transcatheter Valve Therapy Procedure Type	
				Operator: Equal	
				Value: TAVR	



Section: Pre-Procedure CTA Findings

Parent: Presentation and Evaluation

Element: 13429		Technical Specification
Aortic Valve Annulus Maximum Diameter		
Coding Instruction: Indicate the maximum diameter of the aortic valve annulus, in mm. Note: Document aortic valve annulus measurements that are available, preferably measured from a CT. Target Value: The value on current procedure		Code: 112000001241 Code System Name: ACC NCDR Short Name: AVAnnulusMaxDia Missing Data: Report Harvested: Yes (TAVR) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: PQ Precision: 3,1 Selection Type: Single Unit of Measure: mm Default Value: Null Usual Range: 10.0 - 40.0 mm Valid Range: 5.0 - 80.0 mm Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TAVR

Element: 13438		Technical Specification
Aortic Valve Annulus Area		
Coding Instruction: Indicate the area of the aortic valve annulus, in mm2. Note: Document aortic valve annulus measurements that are available, preferably measured from a CT. Target Value: The value on current procedure		Code: 112000001251 Code System Name: ACC NCDR Short Name: AVAnnulusArea Missing Data: Report Harvested: Yes (TAVR) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: PQ Precision: 4,1 Selection Type: Single Unit of Measure: mm2 Default Value: Null Usual Range: 100.0 - 600.0 mm2 Valid Range: 100.0 - 999.0 mm2 Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TAVR



Section: Pre-Procedure CTA Findings

Parent: Presentation and Evaluation

Element: 13439 Aortic Valve Annulus Perimeter		Technical Specification
Coding Instruction: Indicate the perimeter of the aortic valve annulus, in mm.		Code: 112000001252
Note: Document aortic valve annulus measurements that are available, preferably measured from a CT.		Code System Name: ACC NCDR
Target Value: The value on current procedure		Short Name: AVAnnulusPeri
		Missing Data: Report
		Harvested: Yes (TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 4,1
		Selection Type: Single
		Unit of Measure: mm
		Default Value: Null
		Usual Range: 50.0 - 90.0 mm
		Valid Range: 10.0 - 100.0 mm
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TAVR

Element: 13423 Aortic Valve Calcification Severity		Technical Specification
Coding Instruction: Indicate the degree of calcification on the aortic valve, documented by CT.		Code: 18115005
Target Value: The last value between 12 months prior to arrival and start of the first procedure		Code System Name: SNOMED CT
		Short Name: AVCalc
		Missing Data: Report
		Harvested: Yes (TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13437 Aortic Valve Calcification Severity Not Documented
		Operator: Equal
		Value: No (or Not Answered)
		----- AND -----
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TAVR

Aortic Valve Calcification - 1.3.6.1.4.1.19376.1.4.1.6.5.489

Selection	Definition	Source	Code	Code System Name
None			112000001127	ACC NCDR
Minimal			112000001247	ACC NCDR
Moderate/Severe			112000001249	ACC NCDR



Section: Pre-Procedure CTA Findings Parent: Presentation and Evaluation

Element: 13437 Aortic Valve Calcification Severity Not Documented		Technical Specification
Coding Instruction: Indicate if the degree of calcification on the aortic valve was not documented.		Code: 18115005
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: AVCalcND
		Missing Data: Report
		Harvested: Yes (TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TAVR



Section: Left Ventricular Ejection

Parent: Pre-Procedure Echocardiogram Findings

Element: 13305		Left Ventricular Ejection Fraction	Technical Specification
Coding Instruction:		Indicate the percentage of the blood emptied from the left ventricle at the end of the contraction.	Code: 10230-1
Target Value:		The last value between 12 months prior to arrival and start of the first procedure	Code System Name: LOINC
Supporting Definition:		Most Recent LVEF % The left ventricular ejection fraction is the percentage of blood emptied from the left ventricle at the end of contraction. Source: ACC Clinical Data Standards, Society for Thoracic Surgeons Adult Cardiac Surgery Database (STS)	Short Name: LVEFMeasure Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: PQ Precision: 2,0 Selection Type: Single Unit of Measure: % Default Value: Null Usual Range: 5 - 90 % Valid Range: 1 - 99 % Data Source: User
			Parent/Child Validation
			Element: 13306 Left Ventricular Ejection Fraction Not Assessed
			Operator: Equal
			Value: No (or Not Answered)

Element: 13306		Left Ventricular Ejection Fraction Not Assessed	Technical Specification
Coding Instruction:		Indicate whether the left ventricular ejection fraction was not assessed or not measured.	Code: 100001027
Target Value:		N/A	Code System Name: ACC NCDR
			Short Name: LVEFNA
			Missing Data: Report
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User



Section: Left Ventricular Dimension

Parent: Pre-Procedure Echocardiogram Findings

Element: 13721 Left Ventricular Internal Systolic Dimension		Technical Specification
Coding Instruction: Indicate the left ventricular internal systolic dimension in cm.		Code: 112000001424
Target Value: The last value between 12 months prior to arrival and start of the first procedure		Code System Name: ACC NCDR
		Short Name: LVIDs
		Missing Data: Report
		Harvested: Yes (BDS, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 2,1
		Selection Type: Single
		Unit of Measure: cm
		Default Value: Null
		Usual Range: 2.5 - 4.5 cm
		Valid Range: 1.0 - 9.0 cm
		Data Source: User
		Parent/Child Validation
		Element: 13722 Left Ventricular Internal Systolic Dimension Not Measured
		Operator: Equal
		Value: No (or Not Answered)
		----- AND -----
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVr
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVR

Element: 13722 Left Ventricular Internal Systolic Dimension Not Measured		Technical Specification
Coding Instruction: Indicate if the left ventricular internal systolic dimension was not measured.		Code: 112000001424
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: LVIDs_NM
		Missing Data: Report
		Harvested: Yes (BDS, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVr
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVR



Section: Left Ventricular Dimension

Parent: Pre-Procedure Echocardiogram Findings

Element: 13723 Left Ventricular Internal Diastolic Dimension		Technical Specification
Coding Instruction: Indicate the left ventricular internal diastolic dimension in cm.		Code: 112000001425
Target Value: The last value between 12 months prior to arrival and start of the first procedure		Code System Name: ACC NCDR
		Short Name: LVIDd
		Missing Data: Report
		Harvested: Yes (BDS, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 3,1
		Selection Type: Single
		Unit of Measure: cm
		Default Value: Null
		Usual Range: 3.5 - 5.5 cm
		Valid Range: 1.0 - 10.0 cm
		Data Source: User
		Parent/Child Validation
		Element: 13724 Left Ventricular Internal Diastolic Dimension Not Measured
		Operator: Equal
		Value: No (or Not Answered)
		----- AND -----
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVr
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVR

Element: 13724 Left Ventricular Internal Diastolic Dimension Not Measured		Technical Specification
Coding Instruction: Indicate if the left ventricular internal diastolic dimension was not measured.		Code: 112000001425
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: LVIDd_NM
		Missing Data: Report
		Harvested: Yes (BDS, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVr
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVR



Section: Left Ventricular Dimension

Parent: Pre-Procedure Echocardiogram Findings

Element: 13725 Left Ventricular End Systolic Volume		Technical Specification
Coding Instruction: Indicate the left ventricular end systolic volume in ml documented by echocardiogram.		Code: 250931004
Target Value: The last value between 12 months prior to arrival and start of the first procedure		Code System Name: SNOMED CT
		Short Name: LVESV
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mL
		Default Value: Null
		Usual Range: 10 - 150 mL
		Valid Range: 1 - 300 mL
		Data Source: User
		Parent/Child Validation
		Element: 13727 Left Ventricular End Systolic Volume Not Measured
		Operator: Equal
		Value: No (or Not Answered)
		----- AND -----
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVr
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVR
Element: 13727 Left Ventricular End Systolic Volume Not Measured		Technical Specification
Coding Instruction: Indicate if the left ventricular end systolic volume was not measured.		Code: 250931004
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: LVESV_NM
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVr
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVR



Section: Left Ventricular Dimension

Parent: Pre-Procedure Echocardiogram Findings

Element: 13726 Left Ventricular End Diastolic Volume		Technical Specification
Coding Instruction: Indicate the left ventricular end diastolic volume in ml, documented by echocardiogram.		Code: 250932006
Target Value: The last value between 12 months prior to arrival and start of the first procedure		Code System Name: SNOMED CT
		Short Name: LVEDV
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mL
		Default Value: Null
		Usual Range: 40 - 250 mL
		Valid Range: 1 - 400 mL
		Data Source: User
		Parent/Child Validation
Element: 13728 Left Ventricular End Diastolic Volume Not Measured		
Operator: Equal		
Value: No (or Not Answered)		
		----- AND -----
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TMVr		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TMVR		

Element: 13728 Left Ventricular End Diastolic Volume Not Measured		Technical Specification
Coding Instruction: Indicate if the left ventricular end diastolic volume was not measured.		Code: 250932006
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: LVEDV_NM
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TMVr		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TMVR		



Section: Left Atrial Volume

Parent: Pre-Procedure Echocardiogram Findings

Element: 13729 Left Atrial Volume		Technical Specification
Coding Instruction: Indicate the left atrial volume in ml documented by echocardiogram.		Code: 112000001426
Target Value: The last value between 12 months prior to arrival and start of the first procedure		Code System Name: ACC NCDR
		Short Name: LAVoI
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mL
		Default Value: Null
		Usual Range: 10 - 90 mL
		Valid Range: 1 - 500 mL
		Data Source: User
Parent/Child Validation		
Element: 13730 Left Atrial Volume Not Measured		Operator: Equal
		Value: No (or Not Answered)
----- AND -----		
Element: 14273 Transcatheter Valve Therapy Procedure Type		Operator: Equal
		Value: TMVR
Element: 14273 Transcatheter Valve Therapy Procedure Type		Operator: Equal
		Value: TMVr

Element: 13730 Left Atrial Volume Not Measured		Technical Specification
Coding Instruction: Indicate if the left atrial volume was not measured.		Code: 112000001426
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: LAVoI_NM
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14273 Transcatheter Valve Therapy Procedure Type		Operator: Equal
		Value: TMVR
Element: 14273 Transcatheter Valve Therapy Procedure Type		Operator: Equal
		Value: TMVr



Section: Left Atrial Volume

Parent: Pre-Procedure Echocardiogram Findings

Element: 13731 Left Atrial Volume Index		Technical Specification
Coding Instruction: Indicate the left atrial volume index in mL/m2, documented by echocardiogram.		Code: 112000001427
Target Value: The last value between 12 months prior to arrival and start of the first procedure		Code System Name: ACC NCDR
		Short Name: LAVolIndex
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: ml/m2
		Default Value: Null
		Usual Range: 10 - 90 ml/m2
		Valid Range: 1 - 250 ml/m2
		Data Source: User
		Parent/Child Validation
		Element: 13732 Left Atrial Volume Index Not Measured
		Operator: Equal
		Value: No (or Not Answered)
		----- AND -----
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVR
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVr

Element: 13732 Left Atrial Volume Index Not Measured		Technical Specification
Coding Instruction: Indicate if the left atrial volume index was not measured.		Code: 112000001427
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: LAVolIndex_NM
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVR
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVr



Section: Aortic Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13442 Aortic Valve Disease Etiology		Technical Specification
Coding Instruction: Indicate primary etiology of aortic valve disease.		Code: 112000001253
Target Value: Any occurrence between 12 months prior to arrival and start of the first procedure		Code System Name: ACC NCDR
Supporting Definition: Aortic Valve Disease Etiology The cause of aortic valve disease.		Short Name: VDAoEt
Source:		Missing Data: Report
		Harvested: Yes (BDS, TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TAVR		

Aortic Valve Disease Etiology - 1.3.6.1.4.1.19376.1.4.1.6.5.493

Selection	Definition	Source	Code	Code System Name
Degenerative			112000001254	ACC NCDR
Endocarditis			56819008	SNOMED CT
Rheumatic			58718002	SNOMED CT
Other			100000351	ACC NCDR

Element: 13468 Aortic Valve Morphology		Technical Specification
Coding Instruction: Indicate the morphology of the aortic valve.		Code: 8722008
If a patient was born with a tricuspid valve with two leaflets that are fused, code tricuspid.		Code System Name: SNOMED CT
Target Value: The value at birth		Short Name: AVMorphology
Supporting Definition: Aortic Valve Disease A disorder characterized by a defect in aortic valve function or structure.		Missing Data: Report
Source:		Harvested: Yes (BDS, TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TAVR		

Aortic Valve Disease Morphology - 1.3.6.1.4.1.19376.1.4.1.6.5.495

Selection	Definition	Source	Code	Code System Name
Bicuspid Aortic Valve			72352009	SNOMED CT
Tricuspid Valve			46030003	SNOMED CT
Other			100000351	ACC NCDR



Section: Aortic Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13469		Ascending Aorta Size	Technical Specification
		Coding Instruction: Indicate the size, in cm, of the ascending aorta.	Code: 112000001258
		Target Value: The last value between 12 months prior to arrival and start of the first procedure	Code System Name: ACC NCDR
		Supporting Definition: Ascending Aorta Measurement Quantitative measurement of the ascending aorta.	Short Name: AASize
		Source:	Missing Data: Report
			Harvested: Yes (TAVR)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 3,1
			Selection Type: Single
			Unit of Measure: cm
			Default Value: Null
			Usual Range: 0.2 - 8.0 cm
			Valid Range: 0.0 - 12.0 cm
			Data Source: User
			Parent/Child Validation
			Element: 13468 Aortic Valve Morphology
			Operator: Equal
			Value: Bicuspid Aortic Valve
			----- AND -----
			Element: 13470 Ascending Aorta Size Not Documented
			Operator: Equal
			Value: No (or Not Answered)
Element: 13470		Ascending Aorta Size Not Documented	Technical Specification
		Coding Instruction: Indicate if the size of the ascending aorta was not documented in the medical record.	Code: 112000001258
		Target Value: N/A	Code System Name: ACC NCDR
		Supporting Definition: Ascending Aorta Measurement Quantitative measurement of the ascending aorta.	Short Name: AASizeND
		Source:	Missing Data: Report
			Harvested: Yes (TAVR)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 13468 Aortic Valve Morphology
			Operator: Equal
			Value: Bicuspid Aortic Valve



Section: Aortic Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13471		Technical Specification
Aortic Valve Annular Calcification		
Coding Instruction: Indicate if annular calcification is present on the aortic valve. Code yes if echo reports document calcification 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.		Code: 18115005 Code System Name: SNOMED CT Short Name: AVAnnularCalc Missing Data: Report Harvested: Yes (TAVR) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Target Value: Any occurrence between 12 months prior to arrival and start of the first procedure		
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TAVR

Element: 13477		Technical Specification
Aortic Valve Regurgitation		
Coding Instruction: Indicate the severity of aortic valve regurgitation.		Code: 60234000 Code System Name: SNOMED CT Short Name: VDInsufA Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: CD Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Target Value: The highest value between 12 months prior to the procedure and start of the procedure		

Valve Regurgitation Severity - 1.3.6.1.4.1.19376.1.4.1.6.5.767

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Trace/Trivial			112000001911	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Aortic Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13307 Aortic Stenosis		Technical Specification
Coding Instruction: Indicate whether aortic stenosis is present.		Code: 60573004
Target Value: Any occurrence between 12 months prior to arrival and start of the first procedure		Code System Name: SNOMED CT
		Short Name: VDStenA
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 13481 Aortic Valve Area		Technical Specification
Coding Instruction: Indicate the smallest aortic valve area (in cm squared) obtained from an echocardiogram or cath report.		Code: 112000001280
Target Value: The lowest value between 12 months prior to start of procedure and start of procedure		Code System Name: ACC NCDR
		Short Name: VDAoVA
		Missing Data: Report
		Harvested: Yes (BDS, TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 3,2
		Selection Type: Single
		Unit of Measure: cm2
		Default Value: Null
		Usual Range: 0.20 - 4.00 cm2
		Valid Range: 0.05 - 5.00 cm2
		Data Source: User

Parent/Child Validation	
Element: 13307 Aortic Stenosis	
Operator: Equal	
Value: Yes	
----- AND -----	
Element: 14273 Transcatheter Valve Therapy Procedure Type	
Operator: Equal	
Value: TAVR	



Section: Aortic Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13674 Aortic Valve Mean Gradient		Technical Specification
Coding Instruction: Indicate the highest MEAN gradient (in mm Hg) across the aortic valve.		Code: 112000001398
Target Value: The highest value between 12 months prior to the procedure and start of the procedure		Code System Name: ACC NCDR
		Short Name: VDGradA
		Missing Data: Report
		Harvested: Yes (BDS, TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mm[Hg]
		Default Value: Null
		Usual Range: 5 - 50 mm[Hg]
		Valid Range: 0 - 200 mm[Hg]
		Data Source: User
Parent/Child Validation		
Element: 13307 Aortic Stenosis		
Operator: Equal		
Value: Yes		
----- AND -----		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TAVR		

Element: 13700 Low Flow		Technical Specification
Coding Instruction: Indicate if there was low flow, which is defined as a stroke volume index <35 ml/m2.		Code: 21762000
Target Value: The last value between 12 months prior to arrival and start of the first procedure		Code System Name: SNOMED CT
		Short Name: SVI
		Missing Data: Report
		Harvested: Yes (TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13674 Aortic Valve Mean Gradient		
Operator: Less Than		
Value: 40		
----- AND -----		
Element: 13701 Low Flow Not Documented		
Operator: Equal		
Value: No (or Not Answered)		
----- AND -----		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TAVR		

Boolean w/Unknown - 1.3.6.1.4.1.19376.1.4.1.6.5.444

Selection	Definition	Source	Code	Code System Name
No			100013073	ACC NCDR
Yes			100013072	ACC NCDR



Section: Aortic Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13701 Low Flow Not Documented		Technical Specification
Coding Instruction: Indicate if the stroke volume index was not documented.		Code: 112000001830
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: SVI_ND
		Missing Data: Report
		Harvested: Yes (TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13674 Aortic Valve Mean Gradient		
Operator: Less Than		
Value: 40		
----- AND -----		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TAVR		

Element: 13702 Aortic Valve Peak Gradient		Technical Specification
Coding Instruction: Indicate the aortic valve peak gradient in mm Hg.		Code: 112000001413
Target Value: The highest value between 12 months prior to the procedure and start of the procedure		Code System Name: ACC NCDR
		Short Name: AVPeakGrad
		Missing Data: Report
		Harvested: Yes (TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mm[Hg]
		Default Value: Null
		Usual Range: 5 - 70 mm[Hg]
		Valid Range: 0 - 200 mm[Hg]
		Data Source: User
Parent/Child Validation		
Element: 13307 Aortic Stenosis		
Operator: Equal		
Value: Yes		
----- AND -----		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TAVR		



Section: Aortic Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13703		Technical Specification
Aortic Valve Peak Velocity		Code: 112000001414
Coding Instruction: Indicate the aortic valve peak velocity, in meters per second, as determined by continuous wave (CW) spectral velocity recording on echocardiography.		Code System Name: ACC NCDR
Target Value: The highest value between 12 months prior to the procedure and start of the procedure		Short Name: AVDPeakVelocity
		Missing Data: Report
		Harvested: Yes (TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 2,1
		Selection Type: Single
		Unit of Measure: m/sec
		Default Value: Null
		Usual Range: 1.0 - 4.0 m/sec
		Valid Range: 1.0 - 8.0 m/sec
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TAVR



Section: Mitral Valve Disease

Parent: Pre-Procedure Echocardiogram Findings

Element: 13704	Mitral Valve Disease	Technical Specification
Coding Instruction: Indicate whether mitral valve disease is present. If there was no documentation of mitral valve disease, code no. Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure		Code: 11851006 Code System Name: SNOMED CT Short Name: MVD Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User

Element: 13672	Mitral Regurgitation	Technical Specification
Coding Instruction: Indicate the severity of regurgitation through the mitral valve. Note(s): Code the highest value or most severe regurgitation when a range is reported. Target Value: The highest value between 12 months prior to the procedure and start of the procedure		Code: 48724000 Code System Name: SNOMED CT Short Name: PreprocMR Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: CD Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
		Parent/Child Validation
		Element: 13704 Mitral Valve Disease Operator: Equal Value: Yes

Regurgitation Severity - 1.3.6.1.4.1.19376.1.4.1.6.5.728

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Trace/Trivial			112000001911	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Moderate-Severe			1000142345	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Mitral Valve Disease

Parent: Pre-Procedure Echocardiogram Findings

Element: 13733 Paravalvular Mitral Regurgitation		Technical Specification
Coding Instruction: Indicate the severity of paravalvular mitral regurgitation.		Code: 112000001428
Note: If trace/trivial is documented, code "none".		Code System Name: ACC NCDR
Target Value: The highest value between 12 months prior to the procedure and start of the procedure		Short Name: VDInsufMPara
		Missing Data: Report
		Harvested: Yes (BDS, TMVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14273	Transcatheter Valve Therapy Procedure Type	
Operator: Equal	Value: TMVR	
----- AND -----		
Element: 13734	Paravalvular Regurgitation Not Documented	
Operator: Equal	Value: No (or Not Answered)	
----- AND -----		
Element: 13672	Mitral Regurgitation	
Operator: Equal	Value: Mild	
Element: 13672	Mitral Regurgitation	
Operator: Equal	Value: Moderate	
Element: 13672	Mitral Regurgitation	
Operator: Equal	Value: Moderate-Severe	
Element: 13672	Mitral Regurgitation	
Operator: Equal	Value: Severe	
Element: 13672	Mitral Regurgitation	
Operator: Equal	Value: Trace/Trivial	

Valve Regurgitation Severity 4 - 1.3.6.1.4.1.19376.1.4.1.6.5.768

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Mitral Valve Disease

Parent: Pre-Procedure Echocardiogram Findings

Element: 13734 Paravalvular Regurgitation Not Documented

Coding Instruction: Indicate if the severity of paravalvular mitral regurgitation was not documented.

Target Value: N/A

Technical Specification

Code: 112000001428

Code System Name: ACC NCDR

Short Name: VDInsufMPara_ND

Missing Data: Report

Harvested: Yes (BDS, TMVR)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVR

AND

Element: 13672 Mitral Regurgitation

Operator: Equal

Value: Mild

Element: 13672 Mitral Regurgitation

Operator: Equal

Value: Moderate

Element: 13672 Mitral Regurgitation

Operator: Equal

Value: Severe

Element: 13672 Mitral Regurgitation

Operator: Equal

Value: Trace/Trivial

Element: 13672 Mitral Regurgitation

Operator: Equal

Value: Moderate-Severe



Section: Mitral Valve Disease

Parent: Pre-Procedure Echocardiogram Findings

Element: 13735 Central Mitral Regurgitation

Coding Instruction: Indicate the severity of central mitral regurgitation.

Note: If trace/trivial is documented, code "none".

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

Technical Specification

Code: 112000001433

Code System Name: ACC NCDR

Short Name: VDInsuffMCentral

Missing Data: Report

Harvested: Yes (BDS, TMVR)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: CD

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13672 Mitral Regurgitation

Operator: Equal

Value: Mild

Element: 13672 Mitral Regurgitation

Operator: Equal

Value: Moderate

Element: 13672 Mitral Regurgitation

Operator: Equal

Value: Severe

Element: 13672 Mitral Regurgitation

Operator: Equal

Value: Trace/Trivial

Element: 13672 Mitral Regurgitation

Operator: Equal

Value: Moderate-Severe

----- AND -----

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVR

----- AND -----

Element: 13736 Central Regurgitation Not
Documented

Operator: Equal

Value: No (or Not Answered)

Valve Regurgitation Severity 4 - 1.3.6.1.4.1.19376.1.4.1.6.5.768

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Mitral Valve Disease

Parent: Pre-Procedure Echocardiogram Findings

Element: 13736 Central Regurgitation Not Documented

Coding Instruction: Indicate whether the severity of central regurgitation was not documented.

Target Value: N/A

Technical Specification

Code: 112000001433

Code System Name: ACC NCDR

Short Name: VDInsuffMCentral_ND

Missing Data: Report

Harvested: Yes (BDS, TMVR)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVR

AND

Element: 13672 Mitral Regurgitation

Operator: Equal

Value: Mild

Element: 13672 Mitral Regurgitation

Operator: Equal

Value: Moderate

Element: 13672 Mitral Regurgitation

Operator: Equal

Value: Severe

Element: 13672 Mitral Regurgitation

Operator: Equal

Value: Trace/Trivial

Element: 13672 Mitral Regurgitation

Operator: Equal

Value: Moderate-Severe



Section: Mitral Valve Disease

Parent: Pre-Procedure Echocardiogram Findings

Element: 13737		Effective Regurgitant Orifice Area	
Coding Instruction:		Indicate the effective regurgitant orifice area (EROA), in cm2.	
Target Value:		The highest value between 12 months prior to the procedure and start of the procedure	

Element: 13738 Effective Regurgitant Orifice Area Method of Assessment		Technical Specification
Coding Instruction: Indicate the method used to assess the effective regurgitant orifice area. If multiple methods are available, code the 3D planimetry method first, then PISA.		Code: 112000001437
Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure		Code System Name: ACC NCDR
		Short Name: VDMitEOA_MoA
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13737	Effective Regurgitant Orifice Area	
Operator:		
Value: Any Value		

Effective Regurgitant Orifice Area Method of Assessment - 1.3.6.1.4.1.19376.1.4.1.6.5.547

Selection	Definition	Source	Code	Code System Name
3D Planimetry			112000001438	ACC NCDR
Proximal Isovelocity Surface Area			112000001439	ACC NCDR
Quantitative Doppler			112000001440	ACC NCDR
Other			100000351	ACC NCDR



Section: Mitral Valve Disease

Parent: Pre-Procedure Echocardiogram Findings

Element: 13308		Technical Specification
Mitral Stenosis		
Coding Instruction: Indicate whether mitral stenosis is present.		Code: 79619009
Target Value: The last value between 12 months prior to arrival and start of the first procedure		Code System Name: SNOMED CT
		Short Name: VDStenM
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13704 Mitral Valve Disease
		Operator: Equal
		Value: Yes

Element: 13316		Technical Specification
Mitral Valve Area		
Coding Instruction: Indicate the smallest mitral valve area in centimeters squared.		Code: 251012002
Target Value: The lowest value between 12 months prior to start of procedure and start of procedure		Code System Name: SNOMED CT
Supporting Definition: Mitral Valve Area		Short Name: VDMVA
Measurement of mitral valve area.		Missing Data: Report
Source:		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 4,2
		Selection Type: Single
		Unit of Measure: cm2
		Default Value: Null
		Usual Range: 3.00 - 6.00 cm2
		Valid Range: 0.05 - 12.00 cm2
		Data Source: User
		Parent/Child Validation
		Element: 13704 Mitral Valve Disease
		Operator: Equal
		Value: Yes



Section: Mitral Valve Disease

Parent: Pre-Procedure Echocardiogram Findings

Element: 13317		Technical Specification
Mitral Valve Mean Gradient		Code: 112000001191
Coding Instruction:	Indicate the highest mean gradient (in mm Hg) across the mitral valve.	Code System Name: ACC NCDR
Target Value:	The highest value between 12 months prior to the procedure and start of the procedure	Short Name: VDGradM
Supporting Definition:	Mitral Valve Mean Gradient The average gradient across the mitral valve occurring during the entire systole.	Missing Data: Report
	Source: Baumgartner, H. et. al (2009). Echocardiographic assessment of valve stenosis: EAE/ASE recommendations for clinical practice.	Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mm[Hg]
		Default Value: Null
		Usual Range: 5 - 50 mm[Hg]
		Valid Range: 0 - 150 mm[Hg]
		Data Source: User
		Parent/Child Validation
		Element: 13704 Mitral Valve Disease
		Operator: Equal
		Value: Yes



Section: Mitral Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13490 Mitral Valve Disease Etiology		Technical Specification
Coding Instruction: Indicate the etiology of mitral valve disease.		Code: 11851006
Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure		Code System Name: SNOMED CT
Supporting Definition: Mitral Valve Disease A disorder characterized by a defect in mitral valve function or structure.		Short Name: MVDEtio
Source: NCI Thesaurus		Missing Data: Report
Vendor Instruction: When Mitral Valve Disease Etiology (13490) is Equal to (None) then Transcatheter Valve Therapy Procedure Type (14273) must be not Equal to (TMVR,TMVR)		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr)
Cannot select option None with any other option: Functional MR (Secondary), Degenerative MR (Primary), Post Inflammatory, Endocarditis or Other		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Multiple
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal	Value: TAVR	
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal	Value: TMVR	
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal	Value: TMVR	

Mitral Valve Disease Etiology - 1.3.6.1.4.1.19376.1.4.1.6.5.548

Selection	Definition	Source	Code	Code System Name
Functional MR (Secondary)	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.		112000001276	ACC NCDR
Degenerative MR (Primary)	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.		112000001277	ACC NCDR
Post Inflammatory			112000001441	ACC NCDR
Endocarditis			56819008	SNOMED CT
Other			100000351	ACC NCDR
None			100001231	ACC NCDR



Section: Mitral Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13740		Functional Mitral Valve Regurgitation Type	Technical Specification
Coding Instruction:		Indicate the type of functional mitral regurgitation.	Code: 112000001276
Target Value:		Any occurrence between 12 months prior to the procedure and start of the procedure	Code System Name: ACC NCDR
Supporting Definition:		Functional Mitral Valve Regurgitation 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. Source:	Short Name: FMRTYPE Missing Data: Report Harvested: Yes (TMVR, TMVrpr) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: CD Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Parent/Child Validation			
Element: 13490		Mitral Valve Disease Etiology	
Operator: Equal		Value: Functional MR (Secondary)	
----- AND -----			
Element: 13741		Functional Mitral Valve Regurgitation Type Not Documented	
Operator: Equal		Value: No (or Not Answered)	
----- AND -----			
Element: 14273		Transcatheter Valve Therapy Procedure Type	
Operator: Equal		Value: TMVr	
Element: 14273		Transcatheter Valve Therapy Procedure Type	
Operator: Equal		Value: TMVR	

Functional Mitral Valve Regurgitation - 1.3.6.1.4.1.19376.1.4.1.6.5.549

Selection	Definition	Source	Code	Code System Name
Ischemic Acute, Post Infarction	The patient has a new onset of mitral regurgitation that occurs within weeks of having of having a myocardial infarction.		112000001442	ACC NCDR
Ischemic Chronic			112000001443	ACC NCDR
Non-Ischemic Dilated Cardiomyopathy			195021004	SNOMED CT
Restrictive Cardiomyopathy			415295002	SNOMED CT
Hypertrophic Cardiomyopathy			233873004	SNOMED CT
Pure Annular Dilation with Normal Left Ventricular Systolic Function			112000001444	ACC NCDR



Section: Mitral Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13741		Functional Mitral Valve Regurgitation Type Not Documented	Technical Specification
Coding Instruction:		Indicate whether the type of functional mitral regurgitation was not documented.	Code: 112000001276
Target Value:		N/A	Code System Name: ACC NCDR
Supporting Definition:		Functional Mitral Valve Regurgitation 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.	Short Name: FMRTypE_ND
Source:			Missing Data: Report
			Harvested: Yes (TMVR, TMVrpr)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 13490 Mitral Valve Disease Etiology
			Operator: Equal
			Value: Functional MR (Secondary)
			----- AND -----
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: TMVr
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: TMVR



Section: Mitral Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13742 Leaflet Prolapse

Coding Instruction: Indicate if there was leaflet prolapse.

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

Technical Specification

Code: 112000001445

Code System: ACC NCDR

Name:

Short Name: MVDLeafPro

Missing Data: Report

Harvested: Yes (TMVR, TMVrpr)

Is Identifier: No

Is Base Element: Yes

Is Followup

Element: No

Data Type: CD

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13490 Mitral Valve Disease Etiology

Operator: Equal

Value: Degenerative MR (Primary)

----- AND -----

Element: 13745 Leaflet Prolapse Not Documented

Operator: Equal

Value: No (or Not Answered)

----- AND -----

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVr

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVR

Valve Leaflet Type - 1.3.6.1.4.1.19376.1.4.1.6.5.550

Selection	Definition	Source	Code	Code System Name
None			100001231	ACC NCDR
Anterior Leaflet			112000001449	ACC NCDR
Posterior Leaflet			112000001450	ACC NCDR
Bileaflet			112000001446	ACC NCDR



Section: Mitral Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13745 Leaflet Prolapse Not Documented

Coding Instruction: Indicate if leaflet prolapse was not documented.

Target Value: N/A

Technical Specification

Code: 112000001445

Code System: ACC NCDR

Name:

Short Name: MVDLeafPro_ND

Missing Data: Report

Harvested: Yes (TMVR, TMVrpr)

Is Identifier: No

Is Base Element: Yes

Is Followup

Element: No

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13490 Mitral Valve Disease Etiology

Operator: Equal

Value: Degenerative MR (Primary)

----- AND -----

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVr

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVR



Section: Mitral Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13743 Leaflet Flail		Technical Specification
Coding Instruction: Indicate if there was leaflet flail.		Code: 112000001447
Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure		Code System Name: ACC NCDR
		Short Name: MVDLeafFlail
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13490 Mitral Valve Disease Etiology		
Operator: Equal		
Value: Degenerative MR (Primary)		
----- AND -----		
Element: 13746 Leaflet Flail Not Documented		
Operator: Equal		
Value: No (or Not Answered)		
----- AND -----		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TMVr		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TMVR		

Valve Leaflet Type - 1.3.6.1.4.1.19376.1.4.1.6.5.550

Selection	Definition	Source	Code	Code System Name
None			100001231	ACC NCDR
Anterior Leaflet			112000001449	ACC NCDR
Posterior Leaflet			112000001450	ACC NCDR
Bileaflet			112000001446	ACC NCDR



Section: Mitral Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13746 Leaflet Flail Not Documented

Coding Instruction: Indicate if leaflet flail was not documented.

Target Value: N/A

Technical Specification

Code: 112000001447

Code System: ACC NCDR

Name:

Short Name: MVDLeafFlail_ND

Missing Data: Report

Harvested: Yes (TMVR, TMVrpr)

Is Identifier: No

Is Base Element: Yes

Is Followup

Element: No

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13490 Mitral Valve Disease Etiology

Operator: Equal

Value: Degenerative MR (Primary)

----- AND -----

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVr

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVR



Section: Mitral Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13748 Inflammatory Mitral Valve Disease Type

Coding Instruction: Indicate type of inflammatory mitral valve disease.

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

Technical Specification

Code: 112000001451

Code System Name: ACC NCDR

Short Name: InflamType

Missing Data: Report

Harvested: Yes (TMVR, TMVrpr)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: CD

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13490 Mitral Valve Disease Etiology

Operator: Equal

Value: Post Inflammatory

----- AND -----

Element: 13753 Inflammatory Mitral Valve Disease Type Not Documented

Operator: Equal

Value: No (or Not Answered)

----- AND -----

Element: 14273 Transcatheter Valve Therapy Procedure Type

Operator: Equal

Value: TMVr

Element: 14273 Transcatheter Valve Therapy Procedure Type

Operator: Equal

Value: TMVR

Inflammatory Mitral Valve Disease Type - 1.3.6.1.4.1.19376.1.4.1.6.5.551

Selection	Definition	Source	Code	Code System Name
Collagen Vascular Disease			398049005	SNOMED CT
Drug Induced			112000001454	ACC NCDR
Idiopathic			112000001453	ACC NCDR
Prior Radiation Therapy			112000001455	ACC NCDR
Rheumatic Fever			58718002	SNOMED CT



Section: Mitral Valve Disease Etiology Parent: Pre-Procedure Echocardiogram Findings

Element: 13753 Inflammatory Mitral Valve Disease Type Not Documented		Technical Specification
Coding Instruction: Indicate if the type of inflammatory mitral valve disease was not documented.		Code: 112000001451
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: InflammType_ND
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13490 Mitral Valve Disease Etiology
		Operator: Equal
		Value: Post Inflammatory
		----- AND -----
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVr
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVR



Section: Mitral Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13744 Leaflet Tethering		Technical Specification
Coding Instruction: Indicate if there was leaflet tethering.		Code: 112000001448
Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure		Code System Name: ACC NCDR
		Short Name: MVDLeafTeth
		Missing Data: Report
		Harvested: Yes (BDS, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14273	Transcatheter Valve Therapy Procedure Type	
Operator: Equal		
Value: TMVR		
Element: 14273	Transcatheter Valve Therapy Procedure Type	
Operator: Equal		
Value: TMVr		
----- AND -----		
Element: 13747	Leaflet Tethering Not Documented	
Operator: Equal		
Value: No (or Not Answered)		

Valve Leaflet Type - 1.3.6.1.4.1.19376.1.4.1.6.5.550

Selection	Definition	Source	Code	Code System Name
None			100001231	ACC NCDR
Anterior Leaflet			112000001449	ACC NCDR
Posterior Leaflet			112000001450	ACC NCDR
Bileaflet			112000001446	ACC NCDR



Section: Mitral Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13747 Leaflet Tethering Not Documented

Coding Instruction: Indicate if leaflet tethering was not documented.

Target Value: N/A

Technical Specification

Code: 112000001448

Code System Name: ACC NCDR

Short Name: MVDLeafTeth_ND

Missing Data: Report

Harvested: Yes (BDS, TMVR, TMVrpr)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVr

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVR

Element: 13749 Mitral Valve Annular Calcification

Coding Instruction: Indicate if there was mitral annular calcification.

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

Technical Specification

Code: 251002009

Code System Name: SNOMED CT

Short Name: MVDAnnular

Missing Data: Report

Harvested: Yes (BDS, TMVR, TMVrpr)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: CD

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVr

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVR

----- AND -----
Element: 13750 Mitral Valve Annular Calcification
Not Documented

Operator: Equal

Value: No (or Not Answered)

Boolean w/Unknown - 1.3.6.1.4.1.19376.1.4.1.6.5.444

Selection	Definition	Source	Code	Code System Name
No			100013073	ACC NCDR
Yes			100013072	ACC NCDR



Section: Mitral Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13750 Mitral Valve Annular Calcification Not Documented		Technical Specification
Coding Instruction: Indicate if mitral annular calcification was not documented.		Code: 251002009
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: MVCalcND
		Missing Data: Report
		Harvested: Yes (BDS, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TMVR		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TMVr		

Element: 13751 Mitral Leaflet Calcification		Technical Specification
Coding Instruction: Indicate if there was mitral leaflet calcification.		Code: 112000001452
Target Value: Any occurrence between 12 months prior to the procedure and start of the procedure		Code System Name: ACC NCDR
		Short Name: MLeafCalc
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TMVr		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TMVR		
----- AND -----		
Element: 13752 Mitral Leaflet Calcification Not Documented		
Operator: Equal		
Value: No (or Not Answered)		

Boolean w/Unknown - 1.3.6.1.4.1.19376.1.4.1.6.5.444

Selection	Definition	Source	Code	Code System Name
No			100013073	ACC NCDR
Yes			100013072	ACC NCDR



Section: Mitral Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13752 Mitral Leaflet Calcification Not Documented

Coding Instruction: Indicate if mitral calcification was not documented.

Target Value: N/A

Technical Specification

Code: 112000001452

Code System Name: ACC NCDR

Short Name: MLeafCalc_ND

Missing Data: Report

Harvested: Yes (TMVR, TMVrpr)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVR

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVr



Section: Tricuspid Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13806	Tricuspid Valve Disease Etiology	Technical Specification
Coding Instruction:	Indicate the etiology of tricuspid valve disease.	Code: 46030003
Target Value:	Any occurrence between 12 months prior to the procedure and start of the procedure	Code System Name: SNOMED CT
Supporting Definition:	Tricuspid Valve A three-cusp valve of the heart that regulates the flow of blood between the right atrium and the right ventricle of the heart	Short Name: TVDisEti
Source:		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: Tricuspid Valve Procedure

Tricuspid Valve Disease Etiology - 1.3.6.1.4.1.19376.1.4.1.6.5.563

Selection	Definition	Source	Code	Code System Name
Primary	Valve structures are abnormal and the abnormalities cause the valve disease.		112000001509	ACC NCDR
Secondary	Valve structures are normal but other conditions (e.g. myocardial infarction or cardiomyopathy) compromise the valve's ability to function normally.		112000001510	ACC NCDR
Pacemaker Induced			112000001511	ACC NCDR
Other			100000351	ACC NCDR

Element: 13318	Tricuspid Valve Regurgitation	Technical Specification
Coding Instruction:	Indicate whether there is evidence of tricuspid valve regurgitation. Enter level of valve function associated with highest risk (i.e., worst performance).	Code: 111287006
	If there was no documentation of tricuspid valve disease, code none.	Code System Name: SNOMED CT
Target Value:	The highest value between 12 months prior to the procedure and start of the procedure	Short Name: PreprocTR
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Valve Regurgitation Severity - 1.3.6.1.4.1.19376.1.4.1.6.5.767

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Trace/Trivial			112000001911	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Tricuspid Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13807		Tricuspid Valve Diastolic Gradient	Technical Specification
Coding Instruction:		Indicate the tricuspid valve diastolic gradient in mm Hg. This can also be called the TV inflow gradient.	Code: 112000001512
Target Value:		The highest value between 12 months prior to the procedure and start of the procedure	Code System Name: ACC NCDR
			Short Name: TVDGrad
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 2,0
			Selection Type: Single
			Unit of Measure: mm[Hg]
			Default Value: Null
			Usual Range: 1 - 15 mm[Hg]
			Valid Range: 1 - 50 mm[Hg]
			Data Source: User
			Parent/Child Validation
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure
			----- AND -----
			Element: 13810 Tricuspid Valve Diastolic Gradient Not Documented
			Operator: Equal
			Value: No (or Not Answered)

Element: 13810		Tricuspid Valve Diastolic Gradient Not Documented	Technical Specification
Coding Instruction:		Indicate if the tricuspid valve diastolic gradient was not documented.	Code: 112000001512
Target Value:		N/A	Code System Name: ACC NCDR
			Short Name: TVDGradND
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure



Section: Tricuspid Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13808		Tricuspid Valve Annulus Size	Technical Specification
Coding Instruction:		Indicate the tricuspid valve annulus size in mm. Document the size using end-diastolic, 4 chamber view is preferred (in mm).	Code: 112000001513
Target Value:		The last value between 12 months prior to arrival and start of the first procedure	Code System Name: ACC NCDR
			Short Name: TVAnnulus
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 2,0
			Selection Type: Single
			Unit of Measure: mm
			Default Value: Null
			Usual Range: 15 - 60 mm
			Valid Range: 1 - 80 mm
			Data Source: User
			Parent/Child Validation
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure
			----- AND -----
			Element: 13809 Tricuspid Valve Annulus Size Not Documented
			Operator: Equal
			Value: No (or Not Answered)
Element: 13809		Tricuspid Valve Annulus Size Not Documented	Technical Specification
Coding Instruction:		Indicate if the tricuspid valve annulus size was not documented.	Code: 112000001513
Target Value:		N/A	Code System Name: ACC NCDR
			Short Name: TVAnnulusND
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure



Section: Tricuspid Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13811		End Diastolic Mid Right Ventricle Diameter	Technical Specification
Coding Instruction:		Indicate the end-diastolic mid-RV diameter, using the 4 chamber view (in cm).	Code: 112000001514
Target Value:		The last value between 12 months prior to arrival and start of the first procedure	Code System: ACC NCDR
			Name:
			Short Name: MidRVDia
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup
			Element: No
			Data Type: PQ
			Precision: 2,1
			Selection Type: Single
			Unit of Measure: cm
			Default Value: Null
			Usual Range: 1.0 - 7.0 cm
			Valid Range: 0.1 - 9.9 cm
			Data Source: User
			Parent/Child Validation
			Element: 14273 Transcatheter Valve Therapy
			Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure
			----- AND -----
			Element: 13812 End Diastolic Mid Right Ventricle
			Diameter Not Documented
			Operator: Equal
			Value: No (or Not Answered)

Element: 13812		End Diastolic Mid Right Ventricle Diameter Not Documented	Technical Specification
Coding Instruction:		Indicate if the end-diastolic mid-RV diameter was not documented.	Code: 112000001514
Target Value:		N/A	Code System: ACC NCDR
			Name:
			Short Name: MidRVDiaND
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup
			Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 14273 Transcatheter Valve Therapy
			Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure



Section: Tricuspid Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

Element: 13813		End Diastolic Basal Right Ventricle Diameter	Technical Specification
Coding Instruction:		Indicate the end-diastolic basal RV diameter, using the 4 chamber view (in cm).	Code: 112000001515
Target Value:		The last value between 12 months prior to arrival and start of the first procedure	Code System: ACC NCDR
			Name:
			Short Name: BasalDia
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 2,1
			Selection Type: Single
			Unit of Measure: cm
			Default Value: Null
			Usual Range: 1.0 - 7.0 cm
			Valid Range: 0.1 - 9.9 cm
			Data Source: User
			Parent/Child Validation
Element: 14273		Transcatheter Valve Therapy Procedure Type	
Operator: Equal		Value: Tricuspid Valve Procedure	
----- AND -----			
Element: 13814		End Diastolic Basal Right Ventricle Diameter Not Documented	
Operator: Equal		Value: No (or Not Answered)	

Element: 13814		End Diastolic Basal Right Ventricle Diameter Not Documented	Technical Specification
Coding Instruction:		Indicate if the basal diastolic mid-RV diameter was not documented.	Code: 112000001515
Target Value: N/A			Code System: ACC NCDR
			Name:
			Short Name: BasalDiaND
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
Element: 14273		Transcatheter Valve Therapy Procedure Type	
Operator: Equal		Value: Tricuspid Valve Procedure	



Section: Pre-Procedure Dobutamine Challenge

Parent: Presentation and Evaluation

Element: 13319		Technical Specification
Dobutamine Challenge Performed		
Coding Instruction: Indicate if a dobutamine challenge was performed. A dobutamine challenge is a type of stress echocardiography that can distinguish between true-severe versus pseudo-severe aortic stenosis. Target Value: Any occurrence between 12 months prior to arrival and start of the first procedure Supporting Definition: Dobutamine Stress Echocardiography A pharmacologic stress echocardiography technique to detect coronary artery disease and myocardial ischemia. Source:		Code: 703338002 Code System Name: SNOMED CT Short Name: DobutChal Missing Data: Report Harvested: Yes (TAVR) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TAVR
Element: 13320		Technical Specification
Flow Reserve Present		
Coding Instruction: Indicate if coronary flow reserve was documented on the dobutamine challenge. Flow reserve on dobutamine echocardiogram is indicated by an increase in the stroke volume index by $\geq 20\%$. Target Value: Any occurrence between 12 months prior to arrival and start of the first procedure Supporting Definition: Dobutamine Stress Echocardiography Findings The results or findings of dobutamine stress echocardiogram. Source:		Code: 112000001193 Code System Name: ACC NCDR Short Name: FlowRes Missing Data: Report Harvested: Yes (TAVR) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
		Parent/Child Validation
		Element: 13319 Dobutamine Challenge Performed Operator: Equal Value: Yes



Section: Pre-Procedure Dobutamine Challenge

Parent: Presentation and Evaluation

Element: 13321 Aortic Stenosis Type		Technical Specification
Coding Instruction: Indicate the type of aortic stenosis documented on dobutamine challenge. Physicians may use different criteria to differentiate, characterize and document truly severe aortic or pseudo-severe aortic stenosis. The 2017 AUC for Severe Aortic Stenosis guideline differentiates "truly severe aortic stenosis" with an AVA ≤ 1.0 cm ² and Vmax > 4 m/sec at any flow rate. Target Value: Any occurrence between 12 months prior to arrival and start of the first procedure Supporting Definition: Dobutamine Stress Echocardiography Findings The results or findings of dobutamine stress echocardiogram. Source:		Code: 112000002013 Code System Name: ACC NCDR Short Name: ASType Missing Data: Report Harvested: Yes (TAVR) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: CD Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Parent/Child Validation		
Element: 13319 Dobutamine Challenge Performed		
Operator: Equal		
Value: Yes		
----- AND -----		
Element: 13325 Aortic Stenosis Type Not Documented		
Operator: Equal		
Value: No (or Not Answered)		

Aortic Stenosis Type - 1.3.6.1.4.1.19376.1.4.1.6.5.462

Selection	Definition	Source	Code	Code System Name
Truly Severe Aortic Stenosis			112000001194	ACC NCDR
Pseudo-Severe Aortic Stenosis			112000001195	ACC NCDR

Element: 13325 Aortic Stenosis Type Not Documented		Technical Specification
Coding Instruction: Indicate if the type of aortic stenosis is not documented on dobutamine challenge. Target Value: N/A Supporting Definition: Dobutamine Stress Echocardiography Findings The results or findings of dobutamine stress echocardiogram. Source:		Code: 112000002013 Code System Name: ACC NCDR Short Name: ASTypeND Missing Data: Report Harvested: Yes (TAVR) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Parent/Child Validation		
Element: 13319 Dobutamine Challenge Performed		
Operator: Equal		
Value: Yes		



Section: Procedure Information

Parent: Lab Visit

Element: 7065		Concomitant Procedures Performed	Technical Specification
Coding Instruction:		Indicate if another procedure was performed concurrently.	Code: 100001271
Target Value:		The value on current procedure	Code System Name: ACC NCDR
			Short Name: ConcomProc
			Missing Data: Report
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User



Section: Procedure Information

Parent: Lab Visit

Element: 7066	Concomitant Procedures Performed Type	Technical Specification
Coding Instruction:	Indicate the type of procedure performed in conjunction with the TVT procedure. Note(s): The procedure(s) collected in your application is controlled by Procedure Master file. This file is maintained by the TVT Registry and will be made available on the internet for downloading and importing/updating into your application. Target Value: The value on current procedure	Code: 100013075 Code System Name: ACC NCDR Short Name: ConcomProcType Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: CD Precision: Selection Type: Multiple (Dynamic List) Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
		Parent/Child Validation
		Element: 7065 Concomitant Procedures Performed Operator: Equal Value: Yes

Concomitant Procedures Type - 2.16.840.1.113883.3.3478.6.4.10

Selection	Definition	Source	Code	Code System Name
Left Atrial Appendage Occlusion			233032004	SNOMED CT
Peripheral Intervention			100001272	ACC NCDR
Procedure Type Not Listed			10001424810	ACC NCDR
PCI			415070008	SNOMED CT
Permanent Pacemaker			449397007	SNOMED CT
Balloon Mitral Valvuloplasty			112000001951	ACC NCDR
BASILICA	Bioprosthetic Aortic Scallop Intentional Laceration to prevent Iatrogenic Coronary Artery obstruction (BASILICA) is a procedure that prevents coronary artery obstruction during transcatheter aortic valve replacement (TAVR).		112000001952	ACC NCDR
Alcohol Septal Ablation			437746009	SNOMED CT
LAMPOON	Laceration of the Anterior Mitral Valve Leaflet to Prevent Left Ventricular Outflow Tract Obstruction During Transcatheter Mitral Valve Replacement		112000001953	ACC NCDR
UNICORN			112000003768	ACC NCDR
Bioprosthetic Leaflet Splitting	A device was used to mechanically split failed bioprosthetic aortic valve leaflets in patients undergoing valve in valve TAVR procedures. An example may include using the ShortCut device to split leaflets of a failed bioprosthetic aortic valve.		112000004278	ACC NCDR
BATMAN	BATMAN (Balloon-Assisted Translocation of the Mitral Anterior Leaflet) procedure is a transcatheter approach designed to treat severe mitral regurgitation in patients who are not candidates for traditional surgical or standard transcatheter interventions by reshaping or repositioning the anterior mitral leaflet using balloon assistance to improve leaflet coaptation and reduce regurgitation.		112000004279	ACC NCDR
Closure Device Placement for Paravalvular Regurgitation			112000004417	ACC NCDR
Chimney Snorkel Technique			112000004419	ACC NCDR



Section: Procedure Information

Parent: Lab Visit

Element: 7025	Procedure Status	Technical Specification
Coding Instruction:	Indicate the status of the procedure.	Code: 100001218
Target Value:	The value on current procedure	Code System Name: ACC NCDR
Vendor Instruction:	When a Transcatheter Valve Therapy Procedure Type (14273) is selected Procedure Status (7025) cannot be Null	Short Name: ProcStatus
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Procedure Status - 1.3.6.1.4.1.19376.1.4.1.6.5.226

Selection	Definition	Source	Code	Code System Name
Elective Procedure	The patient's cardiac function has been stable in the days or weeks prior to the procedure. The procedure could be deferred without increased risk of compromised cardiac outcome.	Society of Thoracic Surgeons (STS)	71388002:260870009=103390000	SNOMED CT
Urgent Procedure			71388002:260870009=103391001	SNOMED CT
Emergency Procedure	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.	Society of Thoracic Surgery (STS)	112000001278	ACC NCDR
Salvage Procedure			112000001279	ACC NCDR



Section: Procedure Information

Parent: Lab Visit

Element: 13499		Heart Team Reason for Procedure	Technical Specification
Coding Instruction:		Indicate the heart team's reason for the transcatheter valve replacement procedure. Note: If the heart team did not document a risk category, consider patients with a predicted risk of 30-day mortality based on the risk model developed by the Society of Thoracic Surgeons as noted below: Low risk is considered <3% Intermediate risk is considered 3-7%. High risk is considered >=8%. Extreme risk includes technically inoperable, co-morbid and debilitated patients.	Code: 112000001281 Code System Name: ACC NCDR Short Name: OperatorReason Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: CD Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Target Value:		The value on current procedure	Parent/Child Validation
			Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TMVR Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: Tricuspid Valve Procedure Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TAVR

Transcatheter Valve Therapy Procedure Risk Types - 1.3.6.1.4.1.19376.1.4.1.6.5.505

Selection	Definition	Source	Code	Code System Name
Extreme Risk			112000001282	ACC NCDR
High Risk			112000001283	ACC NCDR
Intermediate Risk			112000001284	ACC NCDR
Low Risk			112000001285	ACC NCDR

Element: 13504		Heart Team Evaluation of Suitability for Surgical Replacement	Technical Specification
Coding Instruction:		Indicate if, as part of the Heart Team patient assessment, both an Interventional Cardiologist AND a Cardiothoracic Surgeon evaluated the patient face to face for the suitability for open heart valve replacement surgery and documented the evaluation in the medical record.	Code: 112000001291 Code System Name: ACC NCDR Short Name: EvalAVRSuit Missing Data: Report Harvested: Yes (TAVR, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Target Value:		The value on current procedure	Parent/Child Validation
			Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TAVR Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: Tricuspid Valve Procedure



Section: Procedure Information

Parent: Lab Visit

Element: 12871	Procedure Location	Technical Specification
Coding Instruction:	Indicate the location where the procedure was performed.	Code: 112000000623
Target Value:	The value on current procedure	Code System Name: ACC NCDR
Supporting Definition:	Procedure Location The area of the healthcare facility where the procedure was performed.	Short Name: ProcedureLocation
Source:		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Procedure Location - 1.3.6.1.4.1.19376.1.4.1.6.5.327

Selection	Definition	Source	Code	Code System Name
Cardiac Catheterization Laboratory			112000000616	ACC NCDR
Hybrid Catheterization Laboratory Suite			112000001266	ACC NCDR
Hybrid Operating Room Suite			112000001265	ACC NCDR
Other			100000351	ACC NCDR



Section: Procedure Information

Parent: Lab Visit

Element: 13331	Anesthesia Type	Technical Specification
Coding Instruction: Indicate the type of anesthesia used for the procedure.		Code: 399248000
Target Value: The highest value on current procedure		Code System Name: SNOMED CT
Supporting Definition: Anesthesia		Short Name: AnesthesiaType
Anesthesia is defined as the loss of sensation resulting from pharmacologic depression of nerve function. There are several types of anesthesia including neuraxial, general, or peripheral nerve block. Monitored Anesthesia Care is a specific type of anesthesia service that may be provided when neuraxial anesthesia, general anesthesia, or peripheral nerve block is not utilized.		Missing Data: Report
Source: Anesthesia Quality Institute (2018). 2018 AQI NACOR data element conceptual definition. Retrieved from http://www.aqihq.org/files/AQI_NACOR_DATA_ELEMENT_DEFINITIONS_v3%202018_FINAL.pdf		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Anesthesia Type - 1.3.6.1.4.1.19376.1.4.1.6.5.463

Selection	Definition	Source	Code	Code System Name
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.	Excerpted from Continuum of Depth of Sedation: Definition of General Anesthesia and Levels of Sedation/Analgesia approved on October 13, 1999 and last amended October 15, 2014 of the American Society of Anesthesiologists. A copy of the full text can be obtained from ASA, 1061 American Lane Schaumburg, IL 60173-4973 or online at www.asahq.org .	420653000	SNOMED CT
Deep sedation/Analgesia	Deep Sedation/Analgesia is a drug-induced depression of consciousness during which patients cannot be easily aroused but respond purposefully following repeated or painful stimulation. The ability to independently maintain ventilatory function may be impaired. Patients may require assistance in maintaining a patent airway, and spontaneous ventilation may be inadequate. Cardiovascular function is usually maintained.		426155000	SNOMED CT
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. Reflex withdrawal from a painful stimulus is NOT considered a purposeful response.		314271007	SNOMED CT
Minimal Sedation/Anxiolysis	Minimal Sedation (Anxiolysis) is a drug-induced state during which patients respond normally to verbal commands. Although cognitive function and physical coordination may be impaired, airway reflexes, and ventilatory and cardiovascular functions are unaffected.		427255001	SNOMED CT



Section: Procedure Information

Parent: Lab Visit

Element: 13505		Procedure Aborted	Technical Specification
Coding Instruction:		Indicate whether the procedure was cancelled or aborted after the patient entered the procedure room. A procedure is aborted when the procedure is terminated before device deployment is attempted. Once device deployment is attempted, the procedure is considered failed. In this scenario, code device successfully deployed=no.	Code: 112000000515
		For mitral leaflet clip procedures, a procedure is considered aborted when the steerable guide cath was never introduced into the patient.	Code System Name: ACC NCDR
			Short Name: TVTProcedureAbort
			Missing Data: Report
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
Target Value:		The value on current procedure	



Section: Procedure Information

Parent: Lab Visit

Element: 13506 Reason for Aborting Procedure		Technical Specification
Coding Instruction: Indicate the reason why the procedure was canceled or aborted.		Code: 112000001292
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: ProcedureAbortReason
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13505 Procedure Aborted		
Operator: Equal		
Value: Yes		

Transcatheter Valve Therapy Procedure Aborted Reasons - 1.3.6.1.4.1.19376.1.4.1.6.5.554

Selection	Definition	Source	Code	Code System Name
Access Related	The procedure was aborted because of difficulties at the procedure access site.		112000001460	ACC NCDR
Navigation Issue After Successful Access	The procedure was aborted because of navigation issues after successful access. Examples include inability to advance through ilio-femoral system due to vessel size/tortuosity/calcification/disease; inability to navigate aorta; and inability to cross aortic valve.		112000001461	ACC NCDR
New Clinical Findings	The procedure was aborted because of new clinical findings (that are not access or navigation related issues). Examples include (but are not limited to) an annulus too large or small, thrombus or vegetation on valve, valve not felt to be severely stenosed or diseased as suspected.		112000001462	ACC NCDR
Device or Delivery System Malfunction	The procedure was aborted because of a malfunction of either the device or delivery system prior to when the operator attempted to deploy the device.		112000001463	ACC NCDR
Patient Clinical Status	The procedure was aborted because of a change in the patient's clinical status. Examples include (but are not limited to) a patient becoming hemodynamically unstable during the procedure, a patient having an adverse medication or other reaction, or a patient experiencing another complication prior to completion of the procedure.		112000001464	ACC NCDR
Consent Issue	The procedure was aborted because the patient/family or physician changed their decision to perform the procedure after the start of the case.		112000001465	ACC NCDR
Transseptal Access Related	The procedure was aborted because of difficulties crossing the septum.		112000001466	ACC NCDR
System Issue	The procedure was aborted because of equipment (not device) 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 starting the case.		112000001467	ACC NCDR
Other			100000351	ACC NCDR



Section: Procedure Information

Parent: Lab Visit

Element: 13757 Procedure Aborted Action		Technical Specification
Coding Instruction: Indicate the reason or action taken as a result of the aborted TVT procedure.		Code: 112000001468
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: ProcedureAbortedAction
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13505 Procedure Aborted
		Operator: Equal
		Value: Yes

Transcatheter Valve Therapy Procedure Aborted Action - 1.3.6.1.4.1.19376.1.4.1.6.5.555

Selection	Definition	Source	Code	Code System Name
Conversion to Open Heart Surgery			112000001327	ACC NCDR
Scheduled Open Heart Surgery			112000001473	ACC NCDR
Rescheduled Transcatheter Procedure			112000001470	ACC NCDR
Converted to Clinical Trial			112000001472	ACC NCDR
Balloon Valvuloplasty			112000001469	ACC NCDR
Converted to Medical Therapy			112000001471	ACC NCDR
Other			100000351	ACC NCDR

Element: 13542 Conversion to Open Heart Surgery		Technical Specification
Coding Instruction: Indicate if conversion to open heart surgical access was required.		Code: 112000001327
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: ConvSurgAccess
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



Section: Procedure Information

Parent: Lab Visit

Element: 13543 Reason for Conversion to Open Heart Surgery		Technical Specification
Coding Instruction: Indicate the reason for conversion to open heart surgical access.		Code: 112000001327
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: ConvSurgAccessReason
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Multiple
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13542 Conversion to Open Heart Surgery		
Operator: Equal		
Value: Yes		

Reason for Conversion to Open Heart Surgery - 1.3.6.1.4.1.19376.1.4.1.6.5.513

Selection	Definition	Source	Code	Code System Name
Valve Dislodged to Aorta			112000001328	ACC NCDR
Valve Dislodged to Left Ventricle			112000001329	ACC NCDR
Annulus Rupture			112000001331	ACC NCDR
Ventricular Rupture			112000001330	ACC NCDR
Aortic Dissection			308546005	SNOMED CT
Coronary Occlusion			63739005	SNOMED CT
Access Related			112000001460	ACC NCDR
Cardiac Tamponade			35304003	SNOMED CT
Inability to Position Device			112000001479	ACC NCDR
Device Embolization			112000001324	ACC NCDR
Valve Injury			762610001	SNOMED CT
Other			100000351	ACC NCDR

Element: 7422 Mechanical Ventricular Support		Technical Specification
Coding Instruction: Indicate if the patient required mechanical ventricular support.		Code: 100014009
Target Value: Any occurrence on current procedure		Code System Name: ACC NCDR
		Short Name: MechVentSupp
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



Section: Procedure Information

Parent: Lab Visit

Element: 7423	Mechanical Ventricular Support Device	Technical Specification
Coding Instruction: Indicate the mechanical ventricular support device used.		Code: 100001278
		Code System Name: ACC NCDR
	Note(s): The device that should be collected in your application are controlled by a Mechanical Ventricular Support Master file. This file is maintained by the NCDR and will be made available on the internet for downloading and importing/updating into your application. If more than one device is used, code the device with the highest level of support.	Short Name: MVSsupportDevice
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single (Dynamic List)
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 7422 Mechanical Ventricular Support
		Operator: Equal
		Value: Yes

Mechanical Ventricular Support Device - 2.16.840.1.113883.3.3478.6.1.24

Selection	Definition	Source	Code	Code System Name
Cardiopulmonary Support (CPS)			1000142428	ACC NCDR
Extracorporeal membrane oxygenation (ECMO)			233573008	SNOMED CT
Impella: Left Ventricular Support			100014011	ACC NCDR
Impella: Right Ventricular Support			112000000188	ACC NCDR
Intra-aortic balloon pump (IABP)			442807006	SNOMED CT
Isolated Right Ventricular Support			112000000546	ACC NCDR
Left ventricular assist device (LVAD)			232967006	SNOMED CT
Right Ventricular Assist Device (RVAD)			360065002	SNOMED CT
Percutaneous Heart Pump (PHP)			1000142429	ACC NCDR
TandemHeart			100014010	ACC NCDR
Other			100000351	ACC NCDR
Biventricular Axial Flow Impella Catheters (BiPella)			112000001980	ACC NCDR
Combined Extracorporeal Membrane Oxygenation and Percutaneous Left Ventricular Assist Device (ECPELLA)			112000002051	ACC NCDR



Section: Procedure Information

Parent: Lab Visit

Element: 7424 Mechanical Ventricular Support Timing		Technical Specification
Coding Instruction: Indicate when the mechanical ventricular support device was placed.		Code: 100014009
Target Value: Any occurrence on current procedure		Code System Name: ACC NCDR
		Short Name: MVSupportTiming
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 7422 Mechanical Ventricular Support
		Operator: Equal
		Value: Yes

Mechanical Ventricular Support Timing - 1.3.6.1.4.1.19376.1.4.1.6.5.524

Selection	Definition	Source	Code	Code System Name
In place at start of procedure			100001280	ACC NCDR
Inserted during procedure and prior to intervention			100001281	ACC NCDR
Inserted after intervention has begun			100013042	ACC NCDR
Post Procedure			112000001347	ACC NCDR

Element: 13579 Cardiopulmonary Bypass Used		Technical Specification
Coding Instruction: Indicate if cardiopulmonary bypass or coronary perfusion was used during the procedure.		Code: 63697000
Target Value: Any occurrence on current procedure		Code System Name: SNOMED CT
		Short Name: CPB
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



Section: Procedure Information

Parent: Lab Visit

Element: 13580		Cardiopulmonary Bypass Status	Technical Specification	
Coding Instruction:		Indicate if the use of cardiopulmonary bypass was elective or emergent.	Code: 63697000	
Target Value:		The value on current procedure	Code System Name: SNOMED CT	
			Short Name: CPBStatus	
			Missing Data: Report	
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)	
			Is Identifier: No	
			Is Base Element: Yes	
			Is Followup Element: No	
			Data Type: CD	
			Precision:	
			Selection Type: Single	
			Unit of Measure:	
			Default Value: Null	
			Usual Range:	
			Valid Range:	
			Data Source: User	
			Parent/Child Validation	
			Element: 13579 Cardiopulmonary Bypass Used	
			Operator: Equal	
			Value: Yes	

Cardiopulmonary Procedure Status - 1.3.6.1.4.1.19376.1.4.1.6.5.766

Selection	Definition	Source	Code	Code System Name
Elective Procedure			71388002:260870009=103390000	SNOMED CT
Emergency Procedure			112000001278	ACC NCDR

Element: 13581		Cardiopulmonary Bypass Time	Technical Specification	
Coding Instruction:		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.	Code: 364669000	
Target Value:		The total between start of procedure and end of procedure	Code System Name: SNOMED CT	
			Short Name: PerfusTm	
			Missing Data: Report	
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)	
			Is Identifier: No	
			Is Base Element: Yes	
			Is Followup Element: No	
			Data Type: PQ	
			Precision: 3,0	
			Selection Type: Single	
			Unit of Measure: min	
			Default Value: Null	
			Usual Range: 1 - 300 min	
			Valid Range: 1 - 999 min	
			Data Source: User	
			Parent/Child Validation	
			Element: 13579 Cardiopulmonary Bypass Used	
			Operator: Equal	
			Value: Yes	



Section: Procedure Information

Parent: Lab Visit

Element: 13525 Delivery System Successfully Removed

Coding Instruction: Indicate if the delivery system was successful removed.

Target Value: The value on current procedure

Technical Specification

Code: 112000001312

Code System Name: ACC NCDR

Short Name: DeliveryRemoved

Missing Data: Report

Harvested: Yes (TAVR, TMVR, TTVP)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVR

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TAVR

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: Tricuspid Valve Procedure

Element: 13644 Positive Inotropes Administered

Coding Instruction: Indicate if positive inotropes was administered.

For patients requiring IV inotropic support, indicate positive inotropes only.

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

Technical Specification

Code: 112000001358

Code System Name: ACC NCDR

Short Name: ProclnotropesAdmin

Missing Data: Report

Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: CD

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Procedure Medications Administered - 1.3.6.1.4.1.19376.1.4.1.6.5.415

Selection	Definition	Source	Code	Code System Name
No			100013073	ACC NCDR
Yes			100013072	ACC NCDR



Section: Operator Information

Parent: Procedure Information

Element: 14476	TVT Operator First Name	Technical Specification
Coding Instruction: Indicate the first name of operator.		Code: 112000001955
	Note(s): If the name exceeds 50 characters, enter the first 50 characters only.	Code System Name: ACC NCDR
Target Value: The value on current procedure		Short Name: TVT_Oper_FirstName
Vendor Instruction: A TVT Operator - combination First Name (14476), Last Name (14478) and NPI (14479) - may only be entered/selected once		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: FN
		Precision: 50
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 14478	TVT Operator Last Name	Technical Specification
Coding Instruction: Indicate the last name of operator.		Code: 112000001955
	Note(s): If the name exceeds 50 characters, enter the first 50 characters only.	Code System Name: ACC NCDR
Target Value: The value on current procedure		Short Name: TVT_Oper_LastName
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: LN
		Precision: 50
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 14477	TVT Operator Middle Name	Technical Specification
Coding Instruction: Indicate the middle name of operator.		Code: 112000001955
	Note(s): It is acceptable to specify the middle initial. If there is no middle name given, leave field blank. If there are multiple middle names, enter all of the middle names sequentially. If the name exceeds 50 characters, enter the first 50 letters only.	Code System Name: ACC NCDR
Target Value: The value on current procedure		Short Name: TVT_Oper_MidName
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: MN
		Precision: 50
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



Section: Operator Information Parent: Procedure Information

Element: 14479 TVT Operator NPI		Technical Specification
Coding Instruction: Indicate the National Provider Identifier (NPI) of the operator who is performing the procedure. NPI's, assigned by the Centers for Medicare and Medicaid Services (CMS), are used to uniquely identify physicians for Medicare billing purposes.		Code: 112000001955
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: TVT_Oper_NPI
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: NUM
		Precision: 10
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



Section: Radiation and Contrast

Parent: Procedure Information

Element: 14278	Dose Area Product	Technical Specification
Coding Instruction:	Indicate the total fluoroscopy dose to the nearest integer. The value recorded should include the total dose for the lab visit.	Code: 100000994
Target Value:	The total between start of current procedure and end of current procedure	Code System Name: ACC NCDR
Supporting Definition:	Dose Area Product Dose Area 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 x-rays, 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 Area Product). Source: Miller DL, et al. Radiation doses in interventional radiology procedures. (J Vasc Interv Radiol 2003; 14:711-727.)	Short Name: FluoroDoseDAP2 Missing Data: Report Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: PQ Precision: 7,0 Selection Type: Single Unit of Measure: Gy·cm², dGy·cm², cGy·cm², mGy·cm², µGy·M² Default Value: Null Usual Range: 1 - 700 Gy·cm² 10 - 7,000 dGy·cm² 100 - 70,000 cGy·cm² 100 - 70,000 µGy·M² 1,000 - 700,000 mGy·cm² Valid Range: 1 - 5,000 Gy·cm² 10 - 50,000 dGy·cm² 100 - 500,000 cGy·cm² 100 - 500,000 µGy·M² 1,000 - 5,000,000 mGy·cm² Data Source: User

Element: 7210	Cumulative Air Kerma	Technical Specification
Coding Instruction:	Indicate the total radiation dose (Cumulative Air Kerma, or Reference Air Kerma) recorded to the nearest milligray (mGy) or gray (Gy). The value recorded should include the total dose for the lab visit. Cumulative air kerma is the total air kerma accrued from the beginning of an examination or procedure and includes all contributions from fluoroscopic and radiographic irradiation.	Code: 228850003
Target Value:	The total between start of current procedure and end of current procedure	Code System Name: SNOMED CT
Supporting Definition:	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 system. The quantity, kerma, originated from the acronym, KERMA, for Kinetic Energy Released per unit Mass (of air). Source: Miller DL, et al. Radiation doses in interventional radiology procedures. (J Vasc Interv Radiol 2003;14:711-727.)	Short Name: FluoroDoseKerm Missing Data: Report Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: PQ Precision: 5,0 Selection Type: Single Unit of Measure: mGy, Gy Default Value: Null Usual Range: 1 - 10 Gy 1 - 10,000 mGy Valid Range: 1 - 50 Gy 1 - 50,000 mGy Data Source: User



Section: Radiation and Contrast

Parent: Procedure Information

Element: 7214		Fluoroscopy Time	Technical Specification
Coding Instruction:		Indicate the total fluoroscopy time recorded to the nearest 0.1-minute. The time recorded should include the total time for the lab visit.	Code: 100014077
Target Value:		The total between start of current procedure and end of current procedure	Code System Name: ACC NCDR
			Short Name: FluoroTime
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 4,1
			Selection Type: Single
			Unit of Measure: min
			Default Value: Null
			Usual Range: 0.1 - 30.0 min
			Valid Range: 0.1 - 300.0 min
			Data Source: User

Element: 7215		Contrast Volume	Technical Specification
Coding Instruction:		Indicate the volume of contrast (ionic and non-ionic) used in milliliters (mL). The volume recorded should be the total volume for the lab visit.	Code: 80242-1
Target Value:		The total between start of current procedure and end of current procedure	Code System Name: LOINC
			Short Name: ContrastVol
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 3,0
			Selection Type: Single
			Unit of Measure: mL
			Default Value: Null
			Usual Range: 5 - 300 mL
			Valid Range: 0 - 999 mL
			Data Source: User



Section: Post Implant Mitral Valve Data

Parent: Procedure Information

Element: 14274		Technical Specification
Mitral Regurgitation		
Coding Instruction: Indicate the severity of regurgitation through the mitral valve.		Code: 48724000
		Code System Name: SNOMED CT
Note(s):		Short Name: Intraproc_Post_MR
Code the highest value or most severe regurgitation when a range is reported.		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVR
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVr

Valve Regurgitation Severity - 1.3.6.1.4.1.19376.1.4.1.6.5.767

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Trace/Trivial			112000001911	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR

Element: 13762		Technical Specification
Mitral Valve Mean Gradient		
Coding Instruction: Indicate the mean gradient (in mm Hg) across the mitral valve.		Code: 112000001191
		Code System Name: ACC NCDR
Target Value: The last value between the implant and the end of current procedure		Short Name: MVR_Post_MeanMVGrad
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mm[Hg]
		Default Value: Null
		Usual Range: 5 - 50 mm[Hg]
		Valid Range: 0 - 150 mm[Hg]
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVr
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVR



Section: TAVR

Parent: Procedure Information

Element: 13498	Primary Transcatheter Aortic Valve Replacement Procedure Indication	Technical Specification
Coding Instruction:	Indicate the primary indication for the transcatheter aortic valve replacement. If more than one indication is present, choose the most significant.	Code: 112000000482
Target Value:	The highest value between 2 months prior to current procedure and current procedure	Code System Name: ACC NCDR
Vendor Instruction:	When Transcatheter Valve Therapy Procedure Type (14273) is Equal to (TAVR) then Primary Transcatheter Aortic Valve Replacement Procedure Indication (13498) cannot be Null	Short Name: PrimTAVRProcInd
		Missing Data: Report
		Harvested: Yes (BDS, TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TAVR

Transcatheter Aortic Valve Replacement Primary Procedure Indication - 1.3.6.1.4.1.19376.1.4.1.6.5.738

Selection	Definition	Source	Code	Code System Name
Aortic Regurgitation			60234000	SNOMED CT
Aortic Stenosis			60573004	SNOMED CT

Element: 13500	Valve In Valve Procedure	Technical Specification
Coding Instruction:	Indicate whether a "valve-in-valve" procedure was performed on previously implanted bioprosthetic valve. Code no if the procedure is being performed in a native aortic valve. Code yes if the procedure is being performed in a previously implanted bioprosthetic valve.	Code: 112000001286
Target Value:	The value on current procedure	Code System Name: ACC NCDR
Supporting Definition:	Valve in Valve Procedure A procedure where a prosthetic valve is placed in a prosthetic valve that was previously implanted. Source:	Short Name: ValveInValve
Vendor Instruction:	When Transcatheter Valve Therapy Procedure Type (14273) is Equal to (TAVR) then Valve In Valve Procedure (13500) cannot be Null	Missing Data: Report
		Harvested: Yes (BDS, TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TAVR



Section: TAVR

Parent: Procedure Information

Element: 13501		Bioprosthetic Valve Fracture Attempted	Technical Specification	
Coding Instruction:		Indicate if bioprosthetic valve fracture (BVF) with high pressure balloon dilation was attempted on the previously implanted bioprosthetic valve. Note 1: If pre-implant valvuloplasty or post-implant post dilatation with lower pressure inflations (e.g. a hand inflation up to 4 atm), code no. Note 2: If the previously implanted bioprosthetic valve was fractured during the procedure (even though BVF was not planned), code yes.	Code: 112000001287 Code System Name: ACC NCDR Short Name: BVFAttempt Missing Data: Report Harvested: Yes (BDS, TAVR) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User	
Target Value:		The value on current procedure	Parent/Child Validation	
Supporting Definition:		Bioprosthetic Valve Fracture Bioprosthetic Valve Fracture (BVF) is a technique that uses a high pressure dilatation with intent to purposefully fracture or crack the ring of the previously implanted bioprosthetic valve and allow the new implanted valve to more fully expand. This technique requires balloon pressures of up to 20 atm. Source: STS/ACC TVT Registry	Element: 13500 Valve In Valve Procedure Operator: Equal Value: Yes	
Element: 13502		Bioprosthetic Valve Fracture Timing	Technical Specification	
Coding Instruction:		Indicate the timing of the bioprosthetic valve fracture. Note: If BVF was attempted both pre and post valve implant, code both.	Code: 112000001287 Code System Name: ACC NCDR Short Name: BVFTiming Missing Data: Report Harvested: Yes (BDS, TAVR) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: CD Precision: Selection Type: Multiple Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User	
Target Value:		The value on current procedure	Parent/Child Validation	
			Element: 13501 Bioprosthetic Valve Fracture Attempted Operator: Equal Value: Yes	

Timing - 1.3.6.1.4.1.19376.1.4.1.6.5.729

Selection	Definition	Source	Code	Code System Name
Pre Implant			112000001912	ACC NCDR
Post Implant			112000001913	ACC NCDR



Section: TAVR

Parent: Procedure Information

Element: 13503		Valve Observed to be Fractured	Technical Specification
Coding Instruction:		Indicate if the valve was observed to be fractured. Documentation can include any of the following: (1) Fluoroscopically by either visualizing the waist of the balloon release and/or the fractured valve ring (if the valve ring is radiopaque); (2) By an audible snap, or (3) By a sudden drop in the balloon pressure in the absence of balloon rupture.	Code: 112000001290 Code System Name: ACC NCDR Short Name: ValveFractured Missing Data: Report Harvested: Yes (BDS, TAVR) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Target Value:		The value on current procedure	Parent/Child Validation Element: 13501 Bioprosthetic Valve Fracture Attempted Operator: Equal Value: Yes

Element: 13507		Valve Sheath Access Site	Technical Specification
Coding Instruction:		Indicate the access site for the valve sheath.	Code: 112000001293 Code System Name: ACC NCDR Short Name: TVTAccessSite Missing Data: Report Harvested: Yes (BDS, TAVR) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: CD Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Target Value:		The value on current procedure	Parent/Child Validation Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TAVR

Valve Sheath Access Site - 1.3.6.1.4.1.19376.1.4.1.6.5.506

Selection	Definition	Source	Code	Code System Name
Axillary Artery			67937003	SNOMED CT
Carotid			32062004	SNOMED CT
Direct Aortic			112000001957	ACC NCDR
Femoral Artery			7657000	SNOMED CT
Iliac			112000000893	ACC NCDR
Subclavian Artery			36765005	SNOMED CT
Transapical			112000001295	ACC NCDR
Transcaval			112000001299	ACC NCDR
Transseptal via Femoral Vein			112000001296	ACC NCDR
Other			100000351	ACC NCDR



Section: TAVR

Parent: Procedure Information

Element: 13508 Valve Sheath Access Site Method		Technical Specification
Coding Instruction: Indicate the access method used to deliver the valve sheath.		Code: 112000001300
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: TVTAccessMethod
		Missing Data: Report
		Harvested: Yes (TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TAVR		

Valve Sheath Access Site Method - 1.3.6.1.4.1.19376.1.4.1.6.5.507

Selection	Definition	Source	Code	Code System Name
Percutaneous Approach			103388001	SNOMED CT
Cutdown			112000001301	ACC NCDR
Mini Sternotomy			112000001303	ACC NCDR
Mini Thoracotomy			112000001302	ACC NCDR
Other			100000351	ACC NCDR

Element: 13509 Valve Sheath Delivery Size		Technical Specification
Coding Instruction: Indicate the size, in french, of the valve sheath delivery system.		Code: 112000001304
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: ValveSheathDelivery
		Missing Data: Report
		Harvested: Yes (TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 2,0
		Selection Type: Single
		Unit of Measure: Fr
		Default Value: Null
		Usual Range: 14 - 32 Fr
		Valid Range: 5 - 40 Fr
		Data Source: User
Parent/Child Validation		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TAVR		



Section: TAVR

Parent: Procedure Information

Element: 13510 Embolic Protection Deployed		Technical Specification
Coding Instruction: Indicate if embolic protection was used during the procedure.		Code: 112000001305
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: EmbProt
		Missing Data: Report
		Harvested: Yes (BDS, TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TAVR

Element: 13511 Embolic Protection Device		Technical Specification
Coding Instruction: Indicate the embolic protection device used during the procedure.		Code: 112000001306
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: EmbProtDevice
		Missing Data: Report
		Harvested: Yes (BDS, TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single (Dynamic List)
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13510 Embolic Protection Deployed
		Operator: Equal
		Value: Yes



Section: TAVR

Parent: Procedure Information

Element: 14304 Aortic Valve Regurgitation		Technical Specification
Coding Instruction: Indicate the severity of aortic valve regurgitation.		Code: 60234000
Target Value: The last value between the implant and the end of current procedure		Code System Name: SNOMED CT
		Short Name: AVR_Post_AR
		Missing Data: Report
		Harvested: Yes (TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TAVR		

Valve Regurgitation Severity - 1.3.6.1.4.1.19376.1.4.1.6.5.767

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Trace/Trivial			112000001911	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR

Element: 14303 Aortic Valve Mean Gradient		Technical Specification
Coding Instruction: Indicate the highest documented mean gradient (in mm Hg) across the aortic valve.		Code: 112000001398
Target Value: The last value between the implant and the end of current procedure		Code System Name: ACC NCDR
		Short Name: PostImplant_AVMeanGrad
		Missing Data: Report
		Harvested: Yes (TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mm[Hg]
		Default Value: Null
		Usual Range: 5 - 50 mm[Hg]
		Valid Range: 0 - 200 mm[Hg]
		Data Source: User
Parent/Child Validation		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TAVR		



Section: TAVR Devices

Parent: TAVR

Element: 13524 Transcatheter Aortic Valve Replacement Device Counter		Technical Specification
Coding Instruction: This is a software-assigned value. The counter will start at one and be incremented by one for each device or system used.		Code: 2.16.840.1.113883.3.3478.4.851
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: TAVRDevCounter
		Missing Data: Illegal
		Harvested: Yes (BDS, TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CTR
		Precision: 3
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range: 1 - 999
		Data Source: Automatic
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TAVR
		----- AND -----
		Element: 13505 Procedure Aborted
		Operator: Equal
		Value: No

Element: 14485 Transcatheter Aortic Valve Replacement Device ID		Technical Specification
Coding Instruction: Indicate the device ID of the aortic valve.		Code: 112000001805
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: TAVRDeviceID
		Missing Data: Illegal
		Harvested: Yes (BDS, TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single (Dynamic List)
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13524 Transcatheter Aortic Valve Replacement Device Counter
		Operator:
		Value: Any Value



Section: TAVR Devices

Parent: TAVR

Element: 14532 Transcatheter Aortic Valve Replacement Device Diameter		Technical Specification
Coding Instruction: Indicate the transcatheter aortic valve replacement device diameter (in mm).		Code: 112000001805
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: TAVRDeviceDia
		Missing Data: Report
		Harvested: Yes (BDS, TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mm
		Default Value: Null
		Usual Range: 10 - 36 mm
		Valid Range: 5 - 100 mm
		Data Source: User
		Parent/Child Validation
		Element: 14485 Transcatheter Aortic Valve Replacement Device ID
		Operator:
		Value: Any Value

Element: 13534 Device Capture and Repositioning Performed		Technical Specification
Coding Instruction: Indicate if device capture and repositioning was performing during the procedure.		Code: 112000001318
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: TVTDeviceRepositioning
		Missing Data: Report
		Harvested: Yes (TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13535 Device Capture and Repositioning Performed Not Applicable
		Operator: Equal
		Value: No (or Not Answered)
		----- AND -----
		Element: 13524 Transcatheter Aortic Valve Replacement Device Counter
		Operator:
		Value: Any Value

Boolean w/Unknown - 1.3.6.1.4.1.19376.1.4.1.6.5.444

Selection	Definition	Source	Code	Code System Name
No			100013073	ACC NCDR
Yes			100013072	ACC NCDR



Section: TAVR Devices

Parent: TAVR

Element: 13535		Device Capture and Repositioning Performed Not Applicable	Technical Specification
Coding Instruction:		Indicate if performing a device capture and repositioning was not applicable.	Code: 63653004
Target Value:		N/A	Code System Name: SNOMED CT
			Short Name: TVTDeviceRepositioningNA
			Missing Data: Report
			Harvested: Yes (TAVR)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: TAVR
			----- AND -----
			Element: 13524 Transcatheter Aortic Valve Replacement Device Counter
			Operator:
			Value: Any Value
Element: 13536		Transcatheter Aortic Valve Replacement Device Implanted Successfully	Technical Specification
Coding Instruction:		Indicate if there is correct positioning of a single prosthetic heart valve in the proper anatomical location.	Code: 112000001805
Target Value:		The value on current procedure	Code System Name: ACC NCDR
			Short Name: TAVRDeviceImplantSuccessful
			Missing Data: Report
			Harvested: Yes (BDS, TAVR)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 13524 Transcatheter Aortic Valve Replacement Device Counter
			Operator:
			Value: Any Value



Section: TAVR Devices

Parent: TAVR

Element: 13539		Reason Transcatheter Aortic Valve Replacement Device Not Implanted Successfully	Technical Specification	
			Code:	112000002014
			Code System Name:	ACC NCDR
			Short Name:	TAVR_Unsuccessful
			Missing Data:	Report
			Harvested:	Yes (TAVR)
			Is Identifier:	No
			Is Base Element:	Yes
			Is Followup Element:	No
			Data Type:	CD
			Precision:	
			Selection Type:	Single
			Unit of Measure:	
			Default Value:	Null
			Usual Range:	
			Valid Range:	
			Data Source:	User
			Parent/Child Validation	
			Element:	13536 Transcatheter Aortic Valve Replacement Device Implanted Successfully
			Operator:	Equal
			Value:	No

Transcatheter Valve Therapy Reason Device Not Implanted Successfully - 1.3.6.1.4.1.19376.1.4.1.6.5.512

Selection	Definition	Source	Code	Code System Name
Device Embolization			112000001324	ACC NCDR
Improper Device Positioning			112000001325	ACC NCDR
Improper Device Sizing			112000001326	ACC NCDR
Other			100000351	ACC NCDR

Element: 14286		Transcatheter Aortic Valve Replacement Device Serial Number	Technical Specification	
			Code:	112000001805
			Code System Name:	ACC NCDR
			Short Name:	TAVRDeviceSN
			Missing Data:	Report
			Harvested:	Yes (BDS, TAVR)
			Is Identifier:	No
			Is Base Element:	Yes
			Is Followup Element:	No
			Data Type:	ST
			Precision:	30
			Selection Type:	Single
			Unit of Measure:	
			Default Value:	Null
			Usual Range:	
			Valid Range:	
			Data Source:	User
			Parent/Child Validation	
			Element:	13536 Transcatheter Aortic Valve Replacement Device Implanted Successfully
			Operator:	Equal
			Value:	Yes



Section: TAVR Devices

Parent: TAVR

Element: 14572		Transcatheter Aortic Valve Unique Device ID	Technical Specification
Coding Instruction:		Indicate the full unique device identifier (UDI) for the implanted device.	Code: 2.16.840.1.113883.3.3719
Target Value:		The value on current procedure	Code System Name: ACC NCDR
Supporting Definition:		Unique Device Identifier (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.	Short Name: TAV_UDI
Source: US FDA			Missing Data: Report
			Harvested: Yes (BDS, TAVR)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: ST
			Precision: 150
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 13536 Transcatheter Aortic Valve Replacement Device Implanted Successfully
			Operator: Equal
			Value: Yes



Section: TMVr

Parent: Procedure Information

Element: 13792	Mitral Leaflet Clip Procedure Indication	Technical Specification
Coding Instruction:	Indicate the indication(s) for the mitral leaflet clip procedure.	Code: 112000000482
Target Value:	The last value on current procedure	Code System Name: ACC NCDR
Vendor Instruction:	When Transcatheter Valve Therapy Procedure Type (14273) is Equal to (TMVr) then Mitral Leaflet Clip Procedure Indication (13792) cannot be Null	Short Name: MRRIndication
		Missing Data: Report
		Harvested: Yes (BDS, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Multiple
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14273	Transcatheter Valve Therapy Procedure Type	
Operator: Equal		
Value: TMVr		

Mitral Leaflet Clip Procedure Indications - 1.3.6.1.4.1.19376.1.4.1.6.5.558

Selection	Definition	Source	Code	Code System Name
Refractory to Guideline Determined Optimal Medical Therapy			112000001944	ACC NCDR
Frailty			248279007	SNOMED CT
Hostile Chest			112000001489	ACC NCDR
Severe Pulmonary Hypertension			112000001490	ACC NCDR
Severe Liver Disease (Cirrhosis or MELD score >12)	The patient has a history of cirrhosis or a "Model For End-Stage Liver Disease" (MELD) score >12 points.		112000001482	ACC NCDR
Porcelain Aorta			112000001175	ACC NCDR
Predicted STS MV Repair ROM Greater than or Equal to 6 Percent	Predicted STS Mitral Valve Repair Operative Mortality Risk is >=6% for a patient deemed likely to undergo mitral valve repair surgery.		112000001483	ACC NCDR
Predicted STS MV Replacement ROM Greater than or Equal to 8 Percent	Predicted STS Mitral Valve Replacement Operative Mortality Risk is >=8% for a patient deemed likely to undergo mitral valve replacement surgery.		112000001484	ACC NCDR
RVD with Severe TR	Right Ventricular Dysfunction with Severe Tricuspid Regurgitation.		112000001486	ACC NCDR
Major Bleeding Diathesis			112000001487	ACC NCDR
Chemotherapy for Malignancy			112000001491	ACC NCDR
AIDS	Acquired Immune Deficiency Syndrome		62479008	SNOMED CT
Immobility			112000001492	ACC NCDR
High Risk of Aspiration			112000001488	ACC NCDR
Severe Dementia			112000001914	ACC NCDR
IMA at High Risk of Injury	Internal Mammary Artery at High Risk of Injury.		112000001494	ACC NCDR
Other			100000351	ACC NCDR



Section: TMVr

Parent: Procedure Information

Element: 13794 Guiding Catheter Access Site		Technical Specification
Coding Instruction: Indicate the leaflet clip guiding catheter access site.		Code: 112000001495
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: LeafAccess
		Missing Data: Report
		Harvested: Yes (BDS, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TMVr		

Guiding Catheter Access Site - 1.3.6.1.4.1.19376.1.4.1.6.5.560

Selection	Definition	Source	Code	Code System Name
Right Femoral Vein			767174009	SNOMED CT
Left Femoral Vein			767173003	SNOMED CT
Jugular Vein			63190004	SNOMED CT
Other Vein			100000351	ACC NCDR

Element: 13795 Steerable Guide Cath Device ID		Technical Specification
Coding Instruction: Indicate the steerable guide cath device ID utilized.		Code: 112000001496
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: SGCDDeviceID
		Missing Data: Report
		Harvested: Yes (TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single (Dynamic List)
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TMVr		



Section: TMVr

Parent: Procedure Information

Element: 13796		Steerable Guide Catheter Serial Number	Technical Specification
Coding Instruction:		Indicate the manufacturer serial number for the steerable guide used during the procedure.	Code: 112000001496
Target Value:		The value on current procedure	Code System Name: ACC NCDR
			Short Name: MRR_GuideSerNo
			Missing Data: Report
			Harvested: Yes (TMVrpr)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: ST
			Precision: 30
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
Parent/Child Validation			
Element: 13795		Steerable Guide Cath Device ID	
Operator:			
		Value: Any Value	



Section: Mitral Leaflet Devices

Parent: TMVr

Element: 13533		Technical Specification
Mitral Repair Device Counter		
Coding Instruction: This is a software-assigned value. The counter will start at one and be incremented by one for each device or system used.		Code: 2.16.840.1.113883.3.3478.4.851
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: MRepairDevCounter
		Missing Data: Illegal
		Harvested: Yes (BDS, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CTR
		Precision: 3
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range: 1 - 999
		Data Source: Automatic
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVr
		----- AND -----
		Element: 13505 Procedure Aborted
		Operator: Equal
		Value: No

Element: 13797		Technical Specification
Mitral Repair Device ID		
Coding Instruction: Indicate all mitral repair device IDs utilized.		Code: 112000002005
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: MRepairDeviceID
		Missing Data: Illegal
		Harvested: Yes (BDS, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single (Dynamic List)
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13533 Mitral Repair Device Counter
		Operator:
		Value: Any Value



Section: Mitral Leaflet Devices

Parent: TMVr

Element: 13798		Technical Specification
Mitral Repair Serial Number		
Coding Instruction: Indicate the serial number of the mitral repair device.		Code: 112000002005
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: MRepairNum
		Missing Data: Report
		Harvested: Yes (BDS, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: ST
		Precision: 30
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13799 Mitral Repair Device Implanted Successfully
		Operator: Equal
		Value: Yes

Element: 14574		Technical Specification
Mitral Repair Unique Device ID		
Coding Instruction: Indicate the full unique device identifier (UDI) for the implanted device.		Code: 2.16.840.1.113883.3.3719
Target Value: The value on current procedure		Code System Name: ACC NCDR
Supporting Definition: Unique Device Identifier (UDI)		Short Name: MRepair_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.		Missing Data: Report
Source: US FDA		Harvested: Yes (BDS, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: ST
		Precision: 150
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13799 Mitral Repair Device Implanted Successfully
		Operator: Equal
		Value: Yes



Section: Mitral Leaflet Devices

Parent: TMVr

Element: 13800	Mitral Valve Repair Location	Technical Specification
Coding Instruction:	Indicate the location on the mitral valve where the leaflet clip was attached.	Code: 112000002050
Target Value:	The value on current procedure	Code System Name: ACC NCDR
		Short Name: MRR_Loc
		Missing Data: Report
		Harvested: Yes (BDS, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13533 Mitral Repair Device Counter
		Operator:
		Value: Any Value

Mitral Leaflet Clip Procedure Location - 1.3.6.1.4.1.19376.1.4.1.6.5.709

Selection	Definition	Source	Code	Code System Name
A1/P1	The mitral leaflet clip was attached to the A1P1 position on the anterior and posterior mitral valve leaflets.		112000001847	ACC NCDR
A2/P2	The mitral leaflet clip was attached to the A2P2 position on the anterior and posterior mitral valve leaflets.		112000001848	ACC NCDR
A3/P3	The mitral leaflet clip was attached to the A3P3 position on the anterior and posterior mitral valve leaflets.		112000001849	ACC NCDR
Other Location	Mitral leaflet clip was attached to a location on the anterior and posterior mitral leaflets that is not otherwise specified.		112000001850	ACC NCDR

Element: 13799	Mitral Repair Device Implanted Successfully	Technical Specification
Coding Instruction:	Indicate if the mitral repair device was successfully deployed.	Code: 112000002015
Target Value:	The value on current procedure	Code System Name: ACC NCDR
		Short Name: MRR_LeafletClipDeploy
		Missing Data: Report
		Harvested: Yes (BDS, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13533 Mitral Repair Device Counter
		Operator:
		Value: Any Value



Section: Mitral Leaflet Devices

Parent: TMVr

Element: 13801	Reason Mitral Repair Device Not Implanted Successfully	Technical Specification
Coding Instruction:	Indicate the reason why the mitral repair device was not deployed.	Code: 112000002014
Target Value:	The value on current procedure	Code System Name: ACC NCDR
		Short Name: MRR_LeafletClipReasonNotDeploy
		Missing Data: Report
		Harvested: Yes (TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13799	Mitral Repair Device Implanted Successfully	
Operator:	Equal	
Value:	No	

Mitral Leaflet Clip Reason Not Deployed - 1.3.6.1.4.1.19376.1.4.1.6.5.561

Selection	Definition	Source	Code	Code System Name
Adverse Event			112000001505	ACC NCDR
Device Malfunction			112000001504	ACC NCDR
Inability to Grasp Leaflets			112000001501	ACC NCDR
Inability to Reduce Mitral Regurgitation			112000001502	ACC NCDR
Mitral Valve Injury			112000001503	ACC NCDR
Mitral Valve Stenosis			79619009	SNOMED CT
Other			100000351	ACC NCDR

Element: 13802	Mitral Leaflet Clip Deployed then Removed	Technical Specification
Coding Instruction:	Indicate if the leaflet clip was removed after it was deployed.	Code: 112000002005
Target Value:	The value on current procedure	Code System Name: ACC NCDR
		Short Name: MRR_ClipRemoved
		Missing Data: Report
		Harvested: Yes (TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13799	Mitral Repair Device Implanted Successfully	
Operator:	Equal	
Value:	Yes	



Section: TMVR

Parent: Procedure Information

Element: 13754		Transcatheter Mitral Valve Replacement Type	Technical Specification
Coding Instruction:		Indicate the transcatheter mitral valve replacement procedure type.	Code: 112000001458
Target Value:		The value on current procedure	Code System Name: ACC NCDR
Vendor Instruction:		When Transcatheter Valve Therapy Procedure Type (14273) is Equal to (TMVR) then Transcatheter Mitral Valve Replacement Type (13754) cannot be Null	Short Name: TMVRType
		Transcatheter Mitral Valve Replacement Type (13754) cannot be (Native Valve) When Procedure History Name (12905) is (Mitral Valve Replacement Surgery) with Procedure History Occurrence as (Yes)	Missing Data: Report
		AND	Harvested: Yes (BDS, TMVR)
		Mitral Valve Transcatheter Intervention Type (14261) is (Valve in Native Value Procedure OR Valve in Valve Procedure)	Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: CD
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: TMVR

Transcatheter Mitral Valve Replacement Types - 1.3.6.1.4.1.19376.1.4.1.6.5.739

Selection	Definition	Source	Code	Code System Name
Native Valve			112000001456	ACC NCDR
Valve-in-Valve			112000001286	ACC NCDR
Valve-in-Ring			112000001938	ACC NCDR

Element: 13755		Mitral Valve Annular Calcification	Technical Specification
Coding Instruction:		Indicate if there was mitral annular calcification.	Code: 251002009
Target Value:		The value on current procedure	Code System Name: SNOMED CT
			Short Name: MVDAnnular_Native
			Missing Data: Report
			Harvested: Yes (TMVR)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 13754 Transcatheter Mitral Valve Replacement Type
			Operator: Equal
			Value: Native Valve



Section: TMVR

Parent: Procedure Information

Element: 14480		TMVR Bioprosthetic Valve Fracture Attempted	Technical Specification
Coding Instruction:		Indicate if bioprosthetic valve fracture (BVF) with high pressure balloon dilation was attempted on the previously implanted bioprosthetic valve.	Code: 112000001287
		Note 1: If pre-implant valvuloplasty or post-implant post dilatation with lower pressure inflations (e.g. a hand inflation up to 4 atm), code no.	Code System Name: ACC NCDR
		Note 2: If the previously implanted bioprosthetic valve was fractured during the procedure (even though BVF was not planned), code yes.	Short Name: TMVR_BVFAtempt
			Missing Data: Report
			Harvested: Yes (TMVR)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 13754 Transcatheter Mitral Valve Replacement Type
			Operator: Equal
			Value: Valve-in-Valve
			Element: 13754 Transcatheter Mitral Valve Replacement Type
			Operator: Equal
			Value: Valve-in-Ring

Element: 14481		TMVR Bioprosthetic Valve Fracture Timing	Technical Specification
Coding Instruction:		Indicate the timing of the bioprosthetic valve fracture.	Code: 112000001287
		Note: If BVF was attempted both pre and post valve implant, code both.	Code System Name: ACC NCDR
			Short Name: TMVR_BVFTiming
			Missing Data: Report
			Harvested: Yes (TMVR)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: CD
			Precision:
			Selection Type: Multiple
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 14480 TMVR Bioprosthetic Valve Fracture Attempted
			Operator: Equal
			Value: Yes

Timing - 1.3.6.1.4.1.19376.1.4.1.6.5.729

Selection	Definition	Source	Code	Code System Name
Pre Implant			112000001912	ACC NCDR
Post Implant			112000001913	ACC NCDR



Section: TMVR

Parent: Procedure Information

Element: 14482		TMVR Valve Observed to be Fractured	Technical Specification
Coding Instruction:		Indicate if the valve was observed to be fractured. Documentation can include any of the following: (1) Fluoroscopically by either visualizing the waist of the balloon release and/or the fractured valve ring (if the valve ring is radiopaque); (2) By an audible snap, or (3) By a sudden drop in the balloon pressure in the absence of balloon rupture.	Code: 112000001290 Code System Name: ACC NCDR Short Name: TMVR_ValveFractured Missing Data: Report Harvested: Yes (TMVR) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Target Value:		The value on current procedure	Parent/Child Validation Element: 14480 TMVR Bioprosthetic Valve Fracture Attempted Operator: Equal Value: Yes

Element: 13756		Transcatheter Mitral Valve Replacement Primary Procedure Indication	Technical Specification
Coding Instruction:		Indicate the primary procedure indication for the TMVR procedure. If more than one indication is present, choose the most significant.	Code: 112000000482 Code System Name: ACC NCDR Short Name: TMVRProcedureInd Missing Data: Report Harvested: Yes (BDS, TMVR) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: CD Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Target Value:		The highest value between 2 months prior to current procedure and current procedure	Parent/Child Validation Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TMVR
Vendor Instruction:		When Transcatheter Valve Therapy Procedure Type (14273) is Equal to (TMVR) then Transcatheter Mitral Valve Replacement Primary Procedure Indication (13756) cannot be Null	

Transcatheter Mitral Valve Replacement Primary Procedure Indication - 1.3.6.1.4.1.19376.1.4.1.6.5.553

Selection	Definition	Source	Code	Code System Name
Mitral Stenosis			112000001459	ACC NCDR
Mitral Regurgitation			48724000	SNOMED CT



Section: TMVR

Parent: Procedure Information

Element: 13758		Technical Specification
Mitral Valve Replacement - Procedure Access Site		
Coding Instruction: Indicate the access site used to perform the mitral procedure.		Code: 112000001474
Target Value: The last value on current procedure		Code System Name: ACC NCDR
		Short Name: MVAccessSite
		Missing Data: Report
		Harvested: Yes (BDS, TMVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVR

Transcatheter Mitral Valve Replacement Procedure Access Site - 1.3.6.1.4.1.19376.1.4.1.6.5.556

Selection	Definition	Source	Code	Code System Name
Transseptal via Femoral Vein			112000001296	ACC NCDR
Transapical			112000001295	ACC NCDR
Direct Left Atrium			112000001475	ACC NCDR
Other			100000351	ACC NCDR

Element: 13759		Technical Specification
Preimplant Balloon Inflation Performed		
Coding Instruction: Indicate if pre-implant balloon inflation was performed.		Code: 112000001476
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: MVR_MVPreBalloon
		Missing Data: Report
		Harvested: Yes (TMVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVR



Section: TMVR

Parent: Procedure Information

Element: 13760		Significant Hemodynamic Deterioration After Inflation	Technical Specification
Coding Instruction:		Indicate if significant hemodynamic deterioration occurred after inflation. The patient would experience hypotension and pulmonary congestion because balloon inflation of the stenotic valve can cause severe mitral regurgitation.	Code: 112000001477
Target Value:		The value on current procedure	Code System Name: ACC NCDR
			Short Name: MVR_MVHemDet
			Missing Data: Report
			Harvested: Yes (TMVR)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 13759 Preimplant Balloon Inflation Performed
			Operator: Equal
			Value: Yes
Element: 13761		Post Implant Balloon Inflation Performed	Technical Specification
Coding Instruction:		Indicate if post-implant balloon inflation was performed.	Code: 112000001478
Target Value:		The value on current procedure	Code System Name: ACC NCDR
			Short Name: MVR_MVPostBalloon
			Missing Data: Report
			Harvested: Yes (TMVR)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: TMVR



Section: TMVR Devices

Parent: TMVR

Element: 13532 Mitral Valve Device Counter		Technical Specification
Coding Instruction: This is a software-assigned value. The counter will start at one and be incremented by one for each device or system used.		Code: 2.16.840.1.113883.3.3478.4.851
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: MVDevCounter
		Missing Data: Illegal
		Harvested: Yes (BDS, TMVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CTR
		Precision: 3
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range: 1 - 999
		Data Source: Automatic
		Parent/Child Validation
		Element: 13505 Procedure Aborted
		Operator: Equal
		Value: No
		----- AND -----
		Element: 14273 Transcatheter Valve Therapy
		Procedure Type:
		Operator: Equal
		Value: TMVR

Element: 14484 Transcatheter Mitral Valve Replacement Device ID		Technical Specification
Coding Instruction: Indicate the device ID of the mitral valve.		Code: 112000001807
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: TMVRDeviceID
		Missing Data: Illegal
		Harvested: Yes (BDS, TMVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single (Dynamic List)
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13532 Mitral Valve Device Counter
		Operator:
		Value: Any Value



Section: TMVR Devices

Parent: TMVR

Element: 14521		Transcatheter Mitral Valve Replacement Device Diameter	Technical Specification
Coding Instruction:		Indicate the transcatheter mitral valve replacement device diameter (in mm).	Code: 112000001807
Target Value:		The value on current procedure	Code System Name: ACC NCDR
			Short Name: TMVRDeviceDia
			Missing Data: Report
			Harvested: Yes (BDS, TMVR)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 3,0
			Selection Type: Single
			Unit of Measure: mm
			Default Value: Null
			Usual Range: 10 - 36 mm
			Valid Range: 5 - 100 mm
			Data Source: User
			Parent/Child Validation
			Element: 14484 Transcatheter Mitral Valve Replacement Device ID
			Operator:
			Value: Any Value

Element: 14288		Transcatheter Mitral Valve Replacement Device Serial Number	Technical Specification
Coding Instruction:		Indicate the transcatheter mitral valve replacement device serial number.	Code: 112000001807
Target Value:		The value on current procedure	Code System Name: ACC NCDR
			Short Name: TMVRReplacementDeviceSN
			Missing Data: Report
			Harvested: Yes (BDS, TMVR)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: ST
			Precision: 30
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 13538 Mitral Valve Device Implanted Successfully
			Operator: Equal
			Value: Yes



Section: TMVR Devices

Parent: TMVR

Element: 14573		Transcatheter Mitral Valve Unique Device ID	Technical Specification
Coding Instruction:		Indicate the full unique device identifier (UDI) for the implanted device	Code: 2.16.840.1.113883.3.3719
Target Value:		The value on current procedure	Code System Name: ACC NCDR
Supporting Definition:		Unique Device Identifier (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. Source: US FDA	Short Name: TMV_UDI Missing Data: Report Harvested: Yes (BDS, TMVR) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: ST Precision: 150 Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
			Parent/Child Validation
			Element: 13538 Mitral Valve Device Implanted Successfully
			Operator: Equal
			Value: Yes

Element: 13538		Mitral Valve Device Implanted Successfully	Technical Specification
Coding Instruction:		Indicate if there is correct positioning of a single prosthetic heart valve in the proper anatomical location.	Code: 17107009
Target Value:		The value on current procedure	Code System Name: SNOMED CT
			Short Name: MVDeviceImplantSuccessful
			Missing Data: Report
			Harvested: Yes (BDS, TMVR)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 13532 Mitral Valve Device Counter
			Operator:
			Value: Any Value



Section: TMVR Devices

Parent: TMVR

Element: 13541 Reason Mitral Valve Device Not Implanted Successfully		Technical Specification
Coding Instruction: Indicate the reason the device was not implanted successfully.		Code: 112000002014
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: MV_Unsuccessful
		Missing Data: Report
		Harvested: Yes (TMVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13538	Mitral Valve Device Implanted Successfully	
Operator: Equal		
Value: No		

Transcatheter Valve Therapy Reason Device Not Implanted Successfully - 1.3.6.1.4.1.19376.1.4.1.6.5.512

Selection	Definition	Source	Code	Code System Name
Device Embolization			112000001324	ACC NCDR
Improper Device Positioning			112000001325	ACC NCDR
Improper Device Sizing			112000001326	ACC NCDR
Other			100000351	ACC NCDR



Section: TTVP

Parent: Procedure Information

Element: 13815	Tricuspid Valve Procedure Type	Technical Specification
Coding Instruction: Indicate the type of transcatheter tricuspid valve intervention.		Code: 232778005
Target Value: The value on current procedure		Code System Name: SNOMED CT
Vendor Instruction: When Transcatheter Valve Therapy Procedure Type (14273) is Equal to (Tricuspid Valve Procedure) then Tricuspid Valve Procedure Type (13815) cannot be Null		Short Name: TVProcType
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: Tricuspid Valve Procedure

Tricuspid Valve Procedure Type - 1.3.6.1.4.1.19376.1.4.1.6.5.564

Selection	Definition	Source	Code	Code System Name
Annular Reduction			112000001516	ACC NCDR
Direct Leaflet			112000001517	ACC NCDR
Tricuspid Valve Replacement			25236004	SNOMED CT

Element: 13816	Tricuspid Valve Replacement Location	Technical Specification
Coding Instruction: Indicate the location of the tricuspid valve replacement.		Code: 25236004
Target Value: The value on current procedure		Code System Name: SNOMED CT
Vendor Instruction: Tricuspid Valve Replacement Location (13816) must not be Equal to (Native Valve) when Procedure History Name (12905) is (Tricuspid Valve Replacement OR Tricuspid Valve Replacement - Transcatheter) and the Procedure History Occurrence (14268) is (Yes)		Short Name: TVLocation
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13815 Tricuspid Valve Procedure Type
		Operator: Equal
		Value: Tricuspid Valve Replacement

Tricuspid Valve Replacement Location - 1.3.6.1.4.1.19376.1.4.1.6.5.565

Selection	Definition	Source	Code	Code System Name
Inferior and Superior Vena Cava			112000001522	ACC NCDR
Inferior Vena Cava			64131007	SNOMED CT
Native Valve			112000001519	ACC NCDR
Surgical Ring			112000001521	ACC NCDR
Surgical Valve			112000001520	ACC NCDR



Section: TTVP

Parent: Procedure Information

Element: 13817	Tricuspid Valve Repair or Replacement Procedure Indication	Technical Specification
Coding Instruction:	Indicate the primary procedure indication for the tricuspid procedure.	Code: 112000000482
Target Value:	The value on current procedure	Code System Name: ACC NCDR
Vendor Instruction:	When Transcatheter Valve Therapy Procedure Type (14273) is Equal to (Tricuspid Valve Procedure) then Tricuspid Valve Repair or Replacement Procedure Indication (13817) cannot be Null	Short Name: TVProcedureInd
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: Tricuspid Valve Procedure

Tricuspid Valve Repair or Replacement Procedure Indication - 1.3.6.1.4.1.19376.1.4.1.6.5.566

Selection	Definition	Source	Code	Code System Name
Tricuspid Valve Regurgitation			111287006	SNOMED CT
Tricuspid Valve Stenosis			49915006	SNOMED CT
Both Tricuspid Stenosis and at least Moderate Tricuspid Regurgitation			112000001829	ACC NCDR

Element: 13838	Tricuspid Valve Procedure Access Site	Technical Specification
Coding Instruction:	Indicate the access site used to perform the procedure.	Code: 112000001474
Target Value:	The value on current procedure	Code System Name: ACC NCDR
		Short Name: TVAccess
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: Tricuspid Valve Procedure

Tricuspid Valve Replacement Procedure Access Site - 1.3.6.1.4.1.19376.1.4.1.6.5.567

Selection	Definition	Source	Code	Code System Name
Femoral Vein			83419000	SNOMED CT
Jugular Vein			63190004	SNOMED CT
Right Atrium			73829009	SNOMED CT
Other			100000351	ACC NCDR



Section: TTVP

Parent: Procedure Information

Element: 13839 Transvenous Right Ventricular Lead Present		Technical Specification
Coding Instruction: Indicate if a transvenous right ventricular lead is present.		Code: 112000001526
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: RVLead
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: Tricuspid Valve Procedure

Element: 13840 Right Ventricular Lead Strategy		Technical Specification
Coding Instruction: Indicate the strategy to manage the right ventricular lead.		Code: 112000001529
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: RVLeadStrat
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13839 Transvenous Right Ventricular Lead Present
		Operator: Equal
		Value: Yes

Right Ventricular Lead Strategy - 1.3.6.1.4.1.19376.1.4.1.6.5.568

Selection	Definition	Source	Code	Code System Name
Jailed by Transcatheter Valve			112000001528	ACC NCDR
Lead Removed Prior to Valve Implant			112000001527	ACC NCDR



Section: TTVP		Parent: Procedure Information	
Element: 13841		Change in Lead Function	Technical Specification
Coding Instruction:		Indicate if jailing the right ventricular lead led to a change in lead function.	Code: 112000001529
Target Value:		The value on current procedure	Code System: ACC NCDR
			Name:
			Short Name: RVLeadFx
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 13840 Right Ventricular Lead Strategy
			Operator: Equal
			Value: Jailed by Transcatheter Valve



Section: TTVP Pre-Implant

Parent: TTVP

Element: 13819		Preimplant Superior Vena Cava Pressure	Technical Specification
Coding Instruction:		Indicate the pressure in the superior vena cava prior to the device implant.	Code: 112000001524
Target Value:		The value between start of procedure and prior to the intervention	Code System Name: ACC NCDR
			Short Name: SVDPre
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 2,0
			Selection Type: Single
			Unit of Measure: mm[Hg]
			Default Value: Null
			Usual Range: 1 - 10 mm[Hg]
			Valid Range: 0 - 35 mm[Hg]
			Data Source: User
			Parent/Child Validation
Element: 13816		Tricuspid Valve Replacement Location	
Operator: Equal		Value: Inferior Vena Cava	
Element: 13816		Tricuspid Valve Replacement Location	
Operator: Equal		Value: Inferior and Superior Vena Cava	
----- AND -----			
Element: 13820		Preimplant Superior Vena Cava Pressure Not Documented	
Operator: Equal		Value: No (or Not Answered)	

Element: 13820		Preimplant Superior Vena Cava Pressure Not Documented	Technical Specification
Coding Instruction:		Indicate if the pressure in the superior vena cava pre-implant was not documented.	Code: 112000001524
Target Value: N/A			Code System Name: ACC NCDR
			Short Name: SVDPreND
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
Element: 13816		Tricuspid Valve Replacement Location	
Operator: Equal		Value: Inferior Vena Cava	
Element: 13816		Tricuspid Valve Replacement Location	
Operator: Equal		Value: Inferior and Superior Vena Cava	



Section: TTVP Pre-Implant

Parent: TTVP

Element: 13823		Preimplant Inferior Vena Cava Pressure	Technical Specification
Coding Instruction:		Indicate the pressure in the inferior vena cava prior to device implant.	Code: 112000001525
Target Value:		The value between start of procedure and prior to the intervention	Code System Name: ACC NCDR
			Short Name: IVCPre
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 2,0
			Selection Type: Single
			Unit of Measure: mm[Hg]
			Default Value: Null
			Usual Range: 1 - 10 mm[Hg]
			Valid Range: 0 - 35 mm[Hg]
			Data Source: User
			Parent/Child Validation
Element: 13816		Tricuspid Valve Replacement Location	
Operator: Equal		Value: Inferior Vena Cava	
Element: 13816		Tricuspid Valve Replacement Location	
Operator: Equal		Value: Inferior and Superior Vena Cava	
----- AND -----			
Element: 13825		Preimplant Inferior Vena Cava Pressure Not Documented	
Operator: Equal		Value: No (or Not Answered)	

Element: 13825		Preimplant Inferior Vena Cava Pressure Not Documented	Technical Specification
Coding Instruction:		Indicate if the pressure in the inferior vena cava, pre-implant was not documented.	Code: 112000001525
Target Value: N/A			Code System Name: ACC NCDR
			Short Name: IVCPreND
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
Element: 13816		Tricuspid Valve Replacement Location	
Operator: Equal		Value: Inferior Vena Cava	
Element: 13816		Tricuspid Valve Replacement Location	
Operator: Equal		Value: Inferior and Superior Vena Cava	



Section: TTVP Pre-Implant

Parent: TTVP

Element: 13827		Preimplant Right Atrial Pressure	Technical Specification
Coding Instruction:		Indicate the mean right atrial pressure, pre-implant.	Code: 276755008
Target Value:		The value between start of procedure and prior to the intervention	Code System Name: SNOMED CT
			Short Name: RAPPre
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 2,0
			Selection Type: Single
			Unit of Measure: mm[Hg]
			Default Value: Null
			Usual Range: 1 - 10 mm[Hg]
			Valid Range: 0 - 35 mm[Hg]
			Data Source: User
			Parent/Child Validation
Element: 14290		Preimplant Right Atrial Pressure Not Documented	Operator: Equal
			Value: No (or Not Answered)
			----- AND -----
Element: 14273		Transcatheter Valve Therapy Procedure Type	Operator: Equal
			Value: Tricuspid Valve Procedure

Element: 14290		Preimplant Right Atrial Pressure Not Documented	Technical Specification
Coding Instruction:		Indicate if the mean right atrial pressure is not documented.	Code: 276755008
Target Value:		N/A	Code System Name: SNOMED CT
			Short Name: RAPPreND
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
Element: 14273		Transcatheter Valve Therapy Procedure Type	Operator: Equal
			Value: Tricuspid Valve Procedure



Section: TTVP Pre-Implant

Parent: TTVP

Element: 14281		Preimplant Right Ventricular Systolic Pressure	Technical Specification
Coding Instruction:		Indicate the right ventricular systolic pressure, preimplant .	Code: 276772001
Target Value:		The value between start of procedure and prior to the intervention	Code System Name: SNOMED CT
Supporting Definition:		RV Systolic Pressure The maximum pressure exerted into the systemic arterial circulation during the contraction of the right ventricle of the heart Source: NCI EVS	Short Name: RVSPPre Missing Data: Report Harvested: Yes (TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: PQ Precision: 3,0 Selection Type: Single Unit of Measure: mm[Hg] Default Value: Null Usual Range: 10 - 80 mm[Hg] Valid Range: 1 - 150 mm[Hg] Data Source: User
			Parent/Child Validation
Element: 13831		Preimplant Right Ventricular Systolic Pressure Not Documented	Operator: Equal Value: No (or Not Answered) ----- AND -----
Element: 14273		Transcatheter Valve Therapy Procedure Type	Operator: Equal Value: Tricuspid Valve Procedure
Element: 13831		Preimplant Right Ventricular Systolic Pressure Not Documented	Technical Specification
Coding Instruction:		Indicate if the right ventricular systolic pressure, pre-implant was not documented.	Code: 276772001
Target Value:		N/A	Code System Name: SNOMED CT
Supporting Definition:		RV Systolic Pressure The maximum pressure exerted into the systemic arterial circulation during the contraction of the right ventricle of the heart Source: NCI EVS	Short Name: RVSPPreND Missing Data: Report Harvested: Yes (TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
			Parent/Child Validation
Element: 14273		Transcatheter Valve Therapy Procedure Type	Operator: Equal Value: Tricuspid Valve Procedure



Section: TTVP Pre-Implant

Parent: TTVP

Element: 13834		Preimplant Tricuspid Valve Diastolic Gradient	Technical Specification
Coding Instruction:		Indicate the tricuspid valve diastolic gradient, pre-implant.	Code: 112000001512
Target Value:		The value between start of procedure and prior to the intervention	Code System Name: ACC NCDR
			Short Name: TVDGradPre
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 2,0
			Selection Type: Single
			Unit of Measure: mm[Hg]
			Default Value: Null
			Usual Range: 1 - 15 mm[Hg]
			Valid Range: 1 - 50 mm[Hg]
			Data Source: User
			Parent/Child Validation
Element: 13836		Preimplant Tricuspid Valve Diastolic Gradient Not Documented	
Operator: Equal			
Value: No (or Not Answered)			
----- AND -----			
Element: 14273		Transcatheter Valve Therapy Procedure Type	
Operator: Equal			
Value: Tricuspid Valve Procedure			

Element: 13836		Preimplant Tricuspid Valve Diastolic Gradient Not Documented	Technical Specification
Coding Instruction:		Indicate if the tricuspid valve diastolic gradient was not documented pre implant.	Code: 112000001512
Target Value: N/A			Code System Name: ACC NCDR
			Short Name: TVDGradPreND
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
Element: 14273		Transcatheter Valve Therapy Procedure Type	
Operator: Equal			
Value: Tricuspid Valve Procedure			



Section: TTVP Post-Implant

Parent: TTVP

Element: 13821 Post Implant Superior Vena Cava Pressure		Technical Specification
Coding Instruction: Indicate the pressure in the superior vena cava post-implant.		Code: 112000001524
Target Value: The last value between the implant and the end of current procedure		Code System Name: ACC NCDR
		Short Name: SVDPPost
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 2,0
		Selection Type: Single
		Unit of Measure: mm[Hg]
		Default Value: Null
		Usual Range: 1 - 10 mm[Hg]
		Valid Range: 0 - 35 mm[Hg]
		Data Source: User
Parent/Child Validation		
Element: 13816	Tricuspid Valve Replacement Location	
Operator:	Equal	
Value:	Inferior Vena Cava	
Element: 13816	Tricuspid Valve Replacement Location	
Operator:	Equal	
Value:	Inferior and Superior Vena Cava	
----- AND -----		
Element: 13822	Post Implant Superior Vena Cava Pressure Not Documented	
Operator:	Equal	
Value:	No (or Not Answered)	

Element: 13822 Post Implant Superior Vena Cava Pressure Not Documented		Technical Specification
Coding Instruction: Indicate if the pressure in the superior vena cava post-implant was not documented.		Code: 112000001524
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: SVDPPostND
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13816	Tricuspid Valve Replacement Location	
Operator:	Equal	
Value:	Inferior Vena Cava	
Element: 13816	Tricuspid Valve Replacement Location	
Operator:	Equal	
Value:	Inferior and Superior Vena Cava	



Section: TTVP Post-Implant

Parent: TTVP

Element: 13824		Post Implant Inferior Vena Cava Pressure	Technical Specification
Coding Instruction:		Indicate the pressure in the inferior vena cava post-implant.	Code: 112000001525
Target Value:		The last value between the implant and the end of current procedure	Code System Name: ACC NCDR
			Short Name: IVCPost
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 2,0
			Selection Type: Single
			Unit of Measure: mm[Hg]
			Default Value: Null
			Usual Range: 1 - 10 mm[Hg]
			Valid Range: 0 - 35 mm[Hg]
			Data Source: User
			Parent/Child Validation
Element: 13816		Tricuspid Valve Replacement Location	
Operator: Equal		Value: Inferior Vena Cava	
Element: 13816		Tricuspid Valve Replacement Location	
Operator: Equal		Value: Inferior and Superior Vena Cava	
----- AND -----			
Element: 13826		Post Implant Inferior Vena Cava Pressure Not Documented	
Operator: Equal		Value: No (or Not Answered)	
Element: 13826		Post Implant Inferior Vena Cava Pressure Not Documented	Technical Specification
Coding Instruction:		Indicate the pressure in the inferior vena cava post-implant was not documented.	Code: 112000001525
Target Value: N/A			Code System Name: ACC NCDR
			Short Name: IVCPostND
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
Element: 13816		Tricuspid Valve Replacement Location	
Operator: Equal		Value: Inferior Vena Cava	
Element: 13816		Tricuspid Valve Replacement Location	
Operator: Equal		Value: Inferior and Superior Vena Cava	



Section: TTVP Post-Implant

Parent: TTVP

Element: 13828 Post Implant Right Atrial Pressure		Technical Specification
Coding Instruction: Indicate the mean right atrial pressure, post implant.		Code: 276755008
Target Value: The last value between the implant and the end of current procedure		Code System Name: SNOMED CT
		Short Name: RAPPost
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 2,0
		Selection Type: Single
		Unit of Measure: mm[Hg]
		Default Value: Null
		Usual Range: 1 - 10 mm[Hg]
		Valid Range: 0 - 35 mm[Hg]
		Data Source: User
		Parent/Child Validation
		Element: 13830 Post Implant Right Atrial Pressure Not Documented
		Operator: Equal
		Value: No (or Not Answered)
		----- AND -----
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: Tricuspid Valve Procedure

Element: 13830 Post Implant Right Atrial Pressure Not Documented		Technical Specification
Coding Instruction: Indicate if the mean right atrial pressure, post-implant, was not documented.		Code: 276755008
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: RAPPostND
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: Tricuspid Valve Procedure



Section: TTVP Post-Implant

Parent: TTVP

Element: 13832		Post Implant Right Ventricular Systolic Pressure	Technical Specification
Coding Instruction:		Indicate the right ventricular systolic pressure, post-implant .	Code: 276772001
			Code System Name: SNOMED CT
			Short Name: RVSPPost
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 3,0
			Selection Type: Single
			Unit of Measure: mm[Hg]
			Default Value: Null
			Usual Range: 10 - 80 mm[Hg]
			Valid Range: 1 - 150 mm[Hg]
			Data Source: User
			Parent/Child Validation
			Element: 13833 Post Implant Right Ventricular Systolic Pressure Not Documented
			Operator: Equal
			Value: No (or Not Answered)
			----- AND -----
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure
Element: 13833		Post Implant Right Ventricular Systolic Pressure Not Documented	Technical Specification
Coding Instruction:		Indicate if the right ventricular systolic pressure, post-implant was not documented.	Code: 276772001
			Code System Name: SNOMED CT
			Short Name: RVSPPostND
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure



Section: TTVP Post-Implant

Parent: TTVP

Element: 13835		Post Implant Tricuspid Valve Diastolic Gradient	Technical Specification
Coding Instruction:		Indicate the tricuspid valve diastolic gradient, post-implant.	Code: 112000001512
Target Value:		The last value between the implant and the end of current procedure	Code System Name: ACC NCDR
			Short Name: TVDGradPost
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 2,0
			Selection Type: Single
			Unit of Measure: mm[Hg]
			Default Value: Null
			Usual Range: 1 - 15 mm[Hg]
			Valid Range: 1 - 50 mm[Hg]
			Data Source: User
			Parent/Child Validation
Element: 13837		Post Implant Tricuspid Valve Diastolic Gradient Not Documented	
Operator:		Equal	
Value:		No (or Not Answered)	
			----- AND -----
Element: 14273		Transcatheter Valve Therapy Procedure Type	
Operator:		Equal	
Value:		Tricuspid Valve Procedure	

Element: 13837		Post Implant Tricuspid Valve Diastolic Gradient Not Documented	Technical Specification
Coding Instruction:		Indicate if the tricuspid valve diastolic gradient was not documented post implant.	Code: 112000001512
Target Value:		N/A	Code System Name: ACC NCDR
			Short Name: TVDGradPostND
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
Element: 14273		Transcatheter Valve Therapy Procedure Type	
Operator:		Equal	
Value:		Tricuspid Valve Procedure	



Section: TTVP Devices

Parent: TTVP

Element: 13531		Tricuspid Valve Device Counter	Technical Specification
Coding Instruction:		This is a software-assigned value. The counter will start at one and be incremented by one for each device or system used.	Code: 2.16.840.1.113883.3.3478.4.851
Target Value:		N/A	Code System Name: ACC NCDR
			Short Name: TVDevCounter
			Missing Data: Illegal
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: CTR
			Precision: 3
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range: 1 - 999
			Data Source: Automatic
			Parent/Child Validation
			Element: 13505 Procedure Aborted
			Operator: Equal
			Value: No
			----- AND -----
			Element: 14273 Transcatheter Valve Therapy
			Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure
Element: 14483		Transcatheter Tricuspid Valve Device ID	Technical Specification
Coding Instruction:		Indicate the device ID of the tricuspid valve.	Code: 703201004
Target Value:		The value on current procedure	Code System Name: SNOMED CT
			Short Name: TTVDeviceID
			Missing Data: Illegal
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: CD
			Precision:
			Selection Type: Single (Dynamic List)
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 13531 Tricuspid Valve Device Counter
			Operator:
			Value: Any Value



Section: TTVP Devices

Parent: TTVP

Element: 14520		Tricuspid Valve Device Diameter	Technical Specification
Coding Instruction:		Indicate the tricuspid valve device diameter (in mm).	Code: 703201004
Target Value:		The value on current procedure	Code System Name: SNOMED CT
			Short Name: TTVPDeviceDia
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 3,0
			Selection Type: Single
			Unit of Measure: mm
			Default Value: Null
			Usual Range: 16 - 36 mm
			Valid Range: 5 - 100 mm
			Data Source: User
			Parent/Child Validation
			Element: 14483 Transcatheter Tricuspid Valve Device ID
			Operator:
			Value: Any Value

Element: 13842		Tricuspid Valve Device Serial Number	Technical Specification
Coding Instruction:		Indicate the serial number of the tricuspid valve device implanted during the procedure.	Code: 703201004
Target Value:		The value on current procedure	Code System Name: SNOMED CT
			Short Name: TVDeviceSN
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: ST
			Precision: 30
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 13537 Tricuspid Valve Device Implanted Successfully
			Operator: Equal
			Value: Yes



Section: TTVP Devices

Parent: TTVP

Element: 14571		Transcatheter Tricuspid Valve Unique Device ID	Technical Specification
Coding Instruction:		Indicate the full unique device identifier (UDI) for the implanted device	Code: 2.16.840.1.113883.3.3719
Target Value:		The value on current procedure	Code System Name: ACC NCDR
Supporting Definition:		Unique Device Identifier (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. Source: US FDA	Short Name: TTVP_UDI Missing Data: Report Harvested: Yes (TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: ST Precision: 150 Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
			Parent/Child Validation
			Element: 13537 Tricuspid Valve Device Implanted Successfully Operator: Equal Value: Yes

Element: 13537		Tricuspid Valve Device Implanted Successfully	Technical Specification
Coding Instruction:		Indicate if the device was implanted successfully.	Code: 703201004
Target Value:		The value on current procedure	Code System Name: SNOMED CT
			Short Name: TVDeviceImplantSuccessful Missing Data: Report Harvested: Yes (TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
			Parent/Child Validation
			Element: 13531 Tricuspid Valve Device Counter Operator: Value: Any Value



Section: TTVP Devices

Parent: TTVP

Element: 13540 Reason Tricuspid Valve Device Not Implanted Successfully		Technical Specification
Coding Instruction: Indicate the reason the device was not implanted successfully.		Code: 112000002014
Target Value: The value on current procedure		Code System Name: ACC NCDR
		Short Name: TV_Unsuccessful
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13537	Tricuspid Valve Device Implanted Successfully	
Operator: Equal		
Value: No		

Reason Tricuspid Valve Device Not Implanted Successfully - 1.3.6.1.4.1.19376.1.4.1.6.5.569

Selection	Definition	Source	Code	Code System Name
Adverse Event			112000001505	ACC NCDR
Anchor Pull Through			112000001530	ACC NCDR
Device Embolization			112000001324	ACC NCDR
Device Malfunction			112000001504	ACC NCDR
Improper Device Positioning			112000001325	ACC NCDR
Improper Device Sizing			112000001326	ACC NCDR
Inability to Deliver Device Anchor			112000001533	ACC NCDR
Inability to Deploy the Stent			112000001532	ACC NCDR
Inability to Deploy the Valve			112000001531	ACC NCDR
Inability to Grasp Leaflets			112000001501	ACC NCDR
Inability to Reduce Annular Dimension			112000001534	ACC NCDR
Inability to Reduce Tricuspid Regurgitation			112000001535	ACC NCDR
Inferior Vena Cava Too Large			112000001536	ACC NCDR
Leaflet Detachment			112000001537	ACC NCDR
Single Leaflet Device Attachment			112000001538	ACC NCDR
Tricuspid Valve Injury			112000001539	ACC NCDR
Tricuspid Valve Stenosis			49915006	SNOMED CT
Other			100000351	ACC NCDR



Section: Post-Procedure - Intra or Post-Procedure Events

Parent: Lab Visit

Element: 12153	Intra or Post Procedure Events	Technical Specification
Coding Instruction:	Indicate if there were any Intra or Post Procedure Events.	Code: 1000142478
Target Value:	Any occurrence between start of procedure and until next procedure or discharge	Code System Name: ACC NCDR
Vendor Instruction:	When an Intra or Post Procedure Events (12153) are selected then Intra/Post-Procedure Events Occurred (9002) must not be Null	Short Name: ProcEvents
	An Intra or Post Procedure - combination Events (12153), Occurred (9002) and Event Date (14275) - may only be entered/selected once	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single (Dynamic List)
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Intra or Post Procedure Events - 1.3.6.1.4.1.19376.1.4.1.6.5.706

Selection	Definition	Source	Code	Code System Name
Annular Rupture	Annular rupture (or 'annulus rupture') is an umbrella term covering different procedural-related injuries of the aortic root and the left ventricular outflow tract (LVOT) during transcatheter aortic valve replacement. According to the anatomical location of the injury, it can be classified into 4 types: intra-annular, subannular, supra-annular, and combined rupture This can also be called an 'aortic root rupture' and 'rupture of the device landing zone.'	Pasic, M, Unbehaun, A, et al. Annular Rupture During Transcatheter Aortic Valve Replacement. JACC Cardiovascular Interventions, Vol 8 (2015), #1, 1-9.	112000001835	ACC NCDR
Aortic Dissection	Include only Stanford classification type A or B aortic dissections, requiring surgical or percutaneous intervention. The Stanford classification is divided into type A and B depending on whether the ascending aorta is involved. The Stanford classification is in close relationship to clinical practice, as type A dissections generally require primary surgical repair whereas type B dissections generally are treated medically as initial treatment with surgery reserved for any complications. Type A - Involves the ascending aorta and/or aortic arch, and possibly the descending aorta. The tear can originate in the ascending aorta, the aortic arch, or, more rarely, in the descending aorta. It includes DeBakey type I, II and retrograde type III (dissection originating in the descending aorta or aortic arch but extending into the ascending aorta). Type B - Involves the descending aorta (distal to left subclavian artery origin), without involvement of the ascending aorta or aortic arch. It includes DeBakey type III without retrograde extension into the ascending aorta.	Poonyagariyagorn H, Hook M, Bhatt DL. Cardiovascular emergencies. In: Cleveland Clinic: Current Clinical Medicine 2009. 1st ed. Philadelphia, Pa: Saunders Elsevier; 2008: chap 14; Ankel F. Aortic dissection. In: Marx JA, ed. Rosen's Emergency Medicine: Concepts and Clinical Practice. 7th ed. Philadelphia, Pa: Mosby Elsevier; 2009: chap 83.	308546005	SNOMED CT
ASD Defect Closure due to Transseptal Catheterization	A procedure was required to close an atrial-septal defect as a result of the transseptal catheterization procedure.		112000001885	ACC NCDR
Atrial Fibrillation	Atrial fibrillation or flutter requiring treatment or prolonged hospitalization. Treatment includes initiation of a NEW/DIFFERENT medication therapy to address the arrhythmia; or a procedure/intervention to address the arrhythmia (cardioversion, permanent pacemaker/defibrillator, ablation, etc.).		49436004	SNOMED CT
Bleeding - Access Site	Indicate if the patient experienced a confirmed		1000142440	ACC NCDR



Section: Post-Procedure - Intra or Post-Procedure Events		Parent: Lab Visit	
	bleeding event at the access site observed and documented in the medical record that was associated with any of the following: 1. Hemoglobin drop of ≥ 3 g/dL; 2. Transfusion of whole blood or packed red blood cells; 3. Procedural intervention/surgery at the bleeding site to reverse/stop or correct the bleeding (such as surgical closures/exploration of the arteriotomy site, balloon angioplasty to seal an arterial tear, endoscopy with cautery of a GI bleed).		
Bleeding - Gastrointestinal	The patient experienced a confirmed gastrointestinal bleeding event observed and documented in the medical record that was associated with any of the following: 1. Hemoglobin drop of ≥ 3 g/dL; 2. Transfusion of whole blood or packed red blood cells; 3. Procedural intervention/surgery at the bleeding site to reverse/stop or correct the bleeding (such as surgical closures/exploration of the arteriotomy site, balloon angioplasty to seal an arterial tear, endoscopy with cautery of a GI bleed).	74474003	SNOMED CT
Bleeding - Genitourinary	Indicate if the patient experienced a confirmed genitourinary bleeding event observed and documented in the medical record that was associated with any of the following: 1. Hemoglobin drop of ≥ 3 g/dL; 2. Transfusion of whole blood or packed red blood cells; 3. Procedural intervention/surgery at the bleeding site to reverse/stop or correct the bleeding.	417941003	SNOMED CT
Bleeding - Hematoma at Access Site	Indicate if the patient experienced a confirmed hematoma at the access site observed and documented in the medical record that was associated with any of the following: 1. Hemoglobin drop of ≥ 3 g/dL; 2. Transfusion of whole blood or packed red blood cells; 3. Procedural intervention/surgery at the bleeding site to reverse/stop or correct the bleeding (such as surgical closures/exploration of the arteriotomy site, balloon angioplasty to seal an arterial tear, endoscopy with cautery of a GI bleed).	385494008	SNOMED CT
Bleeding - Other	The patient experienced bleeding from a site not otherwise specified, such as pulmonary bleeding or a subdural hematoma (not a hemorrhagic stroke). To qualify, the bleeding should be associated with any of the following documented in the medical record: 1. Hemoglobin drop of ≥ 3 g/dL; 2. Transfusion of whole blood or packed red blood cells; 3. Procedural intervention/surgery at the bleeding site to reverse/stop or correct the bleeding (such as surgical closures/exploration of the arteriotomy site or balloon angioplasty to seal an arterial tear).	1000142371	ACC NCDR
Bleeding - Retroperitoneal	Indicate if the patient experienced a confirmed retroperitoneal bleeding event observed and documented in the medical record that was associated with any of the following: 1. Hemoglobin drop of ≥ 3 g/dL; 2. Transfusion of whole blood or packed red blood cells; 3. Procedural intervention/surgery at the bleeding site to reverse/stop or correct the bleeding (such as surgical closures/exploration of the arteriotomy site, balloon angioplasty to seal an arterial tear).	95549001	SNOMED CT
Cardiac Arrest	Cardiac arrest is defined as acute cardiac event documented by one of the following: ventricular fibrillation, rapid ventricular tachycardia or bradycardia rhythms with hemodynamic compromise causing loss of consciousness, pulseless rhythms (PEA), or asystole requiring cardiopulmonary resuscitation (two or more chest compressions or open chest massage,	Data Governance Subcommittee of the NCDR's SQOC	410429000 SNOMED CT



Section: Post-Procedure - Intra or Post-Procedure Events		Parent: Lab Visit		
	emergency temporary pacing, pericardiocentesis, institution of ECMO, or defibrillation) and without these measures death would have almost certainly resulted.			
Cardiac Perforation	A perforation of the myocardium, aortic annulus or aorta, with or without tamponade associated with the perforation. If tamponade occurs there would be fluid in the pericardial space compromising cardiac filling, and requiring intervention such as pericardiocentesis or returning to the operating room. This should be documented by either: 1. Echo showing pericardial fluid and signs of tamponade such as right heart compromise, or 2. Systemic hypotension due to pericardial fluid compromising cardiac function.	36191001:123005000=302509004		SNOMED CT
Cardiac Surgery or Intervention - Other Unplanned	The patient subsequently underwent cardiac surgery or a cath lab intervention that was unplanned. This does not include an intervention or procedure already identified as an adverse event in the TVT Registry (e.g. AV reintervention, other vascular surgery or intervention, pacemaker or ICD implant).	112000001892		ACC NCDR
Complete Leaflet Clip Detachment	A complete detachment of the leaflet clip from the valve leaflets occurred	112000001840		ACC NCDR
Coronary Artery Compression	Angiographic or echocardiographic evidence of a new, partial or complete obstruction of a coronary ostium, either by the valve prosthesis itself, the native leaflets, calcifications, or dissection, occurring during or after the procedure.	112000001837		ACC NCDR
COVID-19 Positive	The patient had a diagnosis of COVID-19, confirmed with a laboratory performed polymerase chain reaction (PCR) test. Notes: It is acceptable to code the diagnosis of COVID-19 based on testing that was NOT performed at your facility if it is accompanied by appropriate documentation in the medical record by the provider. Code no if documentation ONLY included antibody testing (IgG).	112000001982		ACC NCDR
Delivery System Component Embolization	A component of the delivery system became detached and embolized into the heart or vascular system of the patient.	112000001841		ACC NCDR
Device Embolization	The device became displaced from its initial implantation site so that it is no longer in its original position.	112000001324		ACC NCDR
Device Migration	Device migration of the prosthetic valve is x-ray confirmed movement of the valve from its initial implantation site such that there is a change in valve orientation within the aortic outflow track resulting in a new echocardiographic confirmed flow disturbance (pre- and post- filmed documentation). Note: Code device embolization if the device is outside of the outflow tract.	370512004		SNOMED CT
Device Related Event - Other	Indicate if an otherwise unspecified device-related event requiring unanticipated treatment occurred. This includes any delivery system related event.	112000001828		ACC NCDR
Device Thrombosis	Any thrombus attached to or near the valve that was implanted during the procedure that occludes part of the blood flow path, interferes with valve function, or is sufficiently large to warrant treatment.	112000001839	Updated Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation (JACC, 2012, Vol 60, No 15)	ACC NCDR
Dialysis (New Requirement)	Acute or worsening renal failure necessitating a new requirement for renal dialysis (renal dialysis includes hemodialysis and peritoneal dialysis). If a patient is on receiving continuous veno-venous hemofiltration (CVVH) as a result of renal failure (and not as treatment to remove fluid for heart failure), code yes.	100014076		ACC NCDR
Endocarditis	Confirmed diagnosis of endocarditis by blood culture and/or vegetation on or around a heart valve. This may include native tissue, ring or prosthetic valve involvement.	Society of Thoracic Surgeons (STS)	56819008	SNOMED CT



Section: Post-Procedure - Intra or Post-Procedure Events		Parent: Lab Visit	
ICD	The patient developed a new dysrhythmia requiring insertion of an implantable cardioverter/defibrillator.	ACC-NCDR-ICD	ACC NCDR
Left Ventricular Outflow Tract Obstruction	Left ventricular outflow tract obstruction (pressure gradient assessed by with echo-Doppler velocities or by catheter-based pressure measurement) was documented in the medical record.	253546004	SNOMED CT
Mitral Leaflet or Subvalvular Injury	A mitral leaflet or subvalvular injury was detected during surgery or ascertained by echocardiogram.	112000001886	ACC NCDR
Myocardial Infarction	A myocardial infarction (MI) is defined as an acute ischemic event that is associated with documented and clinically significant myocardial necrosis. The MI can be periprocedural (<72 hours after the procedure) or spontaneous (>72 hours after the index procedure). 1. Peri-procedural MI (<72 h after the index procedure) (a) New ischemic symptoms (e.g. chest pain or shortness of breath), or new ischemic signs (e.g. ventricular arrhythmias, new or worsening heart failure, new ST-segment changes, hemodynamic instability, new pathological Q waves in at least two contiguous leads, imaging evidence of new loss of viable myocardium or new wall motion abnormality) AND (b) Elevated cardiac biomarkers (preferable CK-MB) within 72 h after the index procedure, consisting of at least one sample post-procedure with a peak value exceeding 15 x as the upper reference limit for troponin or 5 x for CK-MB.* If cardiac biomarkers are increased at baseline (>99th percentile), a further increase in at least 50% post-procedure is required AND the peak value must exceed the previously stated limit. 2. Spontaneous MI (>72 h after the index procedure) any one of the following criteria: (a) Detection of rise and/or fall of cardiac biomarkers (preferably troponin) with at least one value above the 99th percentile URL, together with the evidence of myocardial ischemia with at least one of the following: -Symptoms of ischemia -ECG changes indicative of new ischemia [new ST-T changes or new left bundle branch block (LBBB)] -New pathological Q-waves in at least two contiguous leads -Imaging evidence of a new loss of viable myocardium or new wall motion abnormality (b) Sudden, unexpected cardiac death, involving cardiac arrest, often with symptoms suggestive of myocardial ischemia, and accompanied by presumably new ST elevation, or new LBBB, and/or evidence of fresh thrombus by coronary angiography and/or at autopsy, but death occurring before blood samples could be obtained, or at a time before the appearance of cardiac biomarkers in the blood. (c) Pathological findings of an acute myocardial infarction.	Updated Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation Clinical Trials (JACC, 2012, vol 60, No 15) 22298006	SNOMED CT
Pacemaker Lead Dislodgement or Dysfunction	Pacemaker lead dislodgement or pacemaker dysfunction was documented in the medical record..	112000001884	ACC NCDR
Percutaneous Coronary Intervention	A 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.	National Cardiovascular Data Registry (NCDR)	415070008 SNOMED CT
Permanent Pacemaker	The patient developed a new dysrhythmia	449397007	SNOMED CT



Section: Post-Procedure - Intra or Post-Procedure Events		Parent: Lab Visit		
	requiring insertion of a permanent pacemaker.			
Pulmonary Embolism	Intravascular migration of a venous thrombus to the pulmonary arterial circulation. A 'Proved Pulmonary Embolism' is proved by a positive pulmonary angiogram, an unequivocally positive helical CT scan, a high-probability ventilation-perfusion scan, or autopsy.	Banovac, F., et al. Reporting Standards for Endovascular Treatment of Pulmonary Embolism. Journal of Vascular Interventional Radiology 2010; 21:44-53	59282003	SNOMED CT
Reintervention - Aortic Valve	The patient returned to the operating room or cath lab for any aortic valve re-intervention. Note: Please complete adjudication worksheet for every documented aortic valve reintervention, regardless of type of reintervention.		112000001827	ACC NCDR
Reintervention - Mitral Valve	The patient returned to the operating room or cath lab for any mitral valve re-intervention. Note: Please complete adjudication worksheet for every documented mitral valve reintervention, regardless of type of reintervention.		112000001893	ACC NCDR
Reintervention - Tricuspid Valve	The patient returned to the operating room or cath lab for any tricuspid valve re-intervention. Note: Please complete adjudication worksheet for every documented tricuspid valve reintervention, regardless of type of reintervention.		112000001820	ACC NCDR
Single Leaflet Device Attachment	Single leaflet device attachment was documented in the medical record.		112000001538	ACC NCDR
Stroke - Hemorrhagic	An acute episode of focal or global cerebral or spinal dysfunction caused by intraparenchymal, intraventricular or subarachnoid hemorrhage. Note: Subdural hematomas are intracranial hemorrhagic events and not strokes.	Hicks, K., Tchong, J. 2014 ACC/AHA Key Data Elements and Definitions for Cardiovascular Endpoint Events in Clinical Trials A Report of the ACC/AHA Task Force on Clinical Data Standards (Writing Committee to Develop Cardiovascular Endpoints Data Standards). JACC 2015, 66 (4), p 403-469	230706003	SNOMED CT
Stroke - Ischemic	An acute episode of focal cerebral, spinal, or retinal dysfunction caused by infarction of central nervous system tissue. Note: Hemorrhage may be a consequence of ischemic stroke. In this situation, the stroke is an ischemic stroke with hemorrhagic transformation and not a hemorrhagic stroke.	Hicks, K., Tchong, J. 2014 ACC/AHA Key Data Elements and Definitions for Cardiovascular Endpoint Events in Clinical Trials A Report of the ACC/AHA Task Force on Clinical Data Standards (Writing Committee to Develop Cardiovascular Endpoints Data Standards). JACC 2015, 66 (4), p 403-469	422504002	SNOMED CT
Stroke - Undetermined	A stroke of undetermined origin is defined as an acute episode of focal or global neurological dysfunction caused by presumed brain, spinal cord, or retinal vascular injury as a result of hemorrhage or infarction but with insufficient information to allow categorization as ischemic or hemorrhagic.	Hicks KA, Tchong JE, Bozkurt B, et al. 2014 ACC/AHA Key Data Elements and Definitions for Cardiovascular Endpoint Events in Clinical Trials: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Data Standards (Writing Committee to Develop Cardiovascular Endpoints Data Standards). J Am Coll Cardiol. 2015;66 (4):403-469. doi:10.1016/j.jacc.2014.12.018.	230713003	SNOMED CT
Transient Ischemic Attack (TIA)	A transient episode of focal neurological dysfunction caused by brain, spinal cord, or retinal ischemia, without acute infarction, where the neurological dysfunction resolves within 24 hours.	Society for Thoracic Surgeons (STS)	266257000	SNOMED CT
Transseptal Complication	The patient experienced an adverse event as a result of the transseptal access.		112000001833	ACC NCDR
Tricuspid Leaflet or Subvalvular Injury	A tricuspid leaflet or subvalvular injury was detected during surgery or ascertained by echocardiogram.		112000004338	ACC NCDR
Vascular Complication - Major	Major vascular complications include any of the following: 1. Any aortic dissection, aortic rupture, annulus rupture, left ventricle perforation, or new apical aneurysm/pseudo-aneurysm; 2. Access site or access-related vascular injury (dissection, stenosis, perforation, rupture, arteriovenous fistula, pseudoaneurysm, hematoma, irreversible nerve injury, compartment syndrome, percutaneous closure device failure) leading to death, life threatening or major bleeding*, visceral ischemia or neurological impairment; 3. Distal embolization (non-cerebral) from a vascular source requiring surgery or resulting in	Updated Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation (JACC, 2012, Vol 60, No 15)	112000000460	ACC NCDR



Section: Post-Procedure - Intra or Post-Procedure Events

Parent: Lab Visit

	amputation or irreversible end-organ damage; 4. The use of unplanned endovascular or surgical intervention associated with death, major bleeding, visceral ischemia or neurological impairment; 5. Any new ischemia documented by patient symptoms, physical exam, and/or decreased or absent blood flow on lower extremity angiogram; 6. Surgery for access site-related nerve injury; 7. Permanent access site-related nerve injury. *Refers to VARC bleeding definitions Note: "ipsilateral lower extremity" was removed from #5 to have the ability to account for ischemia from any access site.			
Vascular Complication - Minor	Minor vascular complications include any of the following: 1. Access site or access-related vascular injury (dissection, stenosis, perforation, rupture, arteriovenous fistula, pseudoaneuysms, hematomas, percutaneous closure device failure) not leading to death, life-threatening or major bleeding*, visceral ischemia or neurological impairment; 2. Distal embolization treated with embolectomy and/or thrombectomy and not resulting in amputation or irreversible end-organ damage; 3. Any unplanned endovascular stenting or unplanned surgical intervention not meeting the criteria for a major vascular complication; 4. Vascular repair or the need for vascular repair (via surgery, ultrasound-guided compression, transcatheter embolization, or stent-graft). *Refers to VARC bleeding definitions	Updated Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation (JACC, 2012, Vol 60, No 15)	112000001823	ACC NCDR
Vascular Surgery or Intervention - Unplanned	The patient required unplanned vascular surgery or intervention to correct a bleeding complication or vascular related complication. Note: If a balloon angioplasty of the access site or access related sites is performed as a routine procedure to ensure adequate hemostasis of the site, then this would not qualify as an Unplanned Vascular Surgery or Intervention. However, if a balloon angioplasty is performed in an attempt to treat a bleeding or vascular access complication (i.e. bleeding at access site, dissection, stenosis, narrowing of vessel, etc.), then Unplanned Vascular Surgery or Intervention should be captured.		112000000467	ACC NCDR

Element: 9002

Intra/Post-Procedure Events Occurred

Coding Instruction: Indicate if the specific intra or post procedure event(s) occurred.

Target Value: Any occurrence between start of procedure and until next procedure or discharge

Technical Specification

Code: 1000142479

Code System Name: ACC NCDR

Short Name: PostProcOccurred

Missing Data: Report

Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 12153 Intra or Post Procedure Events

Operator:

Value: Any Value



Section: Post-Procedure - Intra or Post-Procedure Events

Parent: Lab Visit

Element: 14275		Technical Specification
Intra and Post Procedure Event Date		
Coding Instruction:	Indicate the date the event occurred.	Code: 10001424780
Target Value:	Any occurrence between start of procedure and until next procedure or discharge	Code System Name: ACC NCDR
Vendor Instruction:	Intra and Post Procedure Event Date (14275) must be Greater than or Equal to Procedure Start Date and Time (7000)	Short Name: IntraPostProcEventDate
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: DT
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 9002 Intra/Post-Procedure Events Occurred
		Operator: Equal
		Value: Yes



Section: In-Hospital Event Information

Parent: Lab Visit

Element: 14312 Adjudication Event		Technical Specification
Coding Instruction: Indicate the event being adjudicated.		Code: 112000001816
Target Value: N/A		Code System Name: ACC NCDR
Vendor Instruction: When Adjudication Event (14312) is Equal to (Stroke - Hemorrhagic, Stroke - Ischemic, Stroke - Undetermined, Transient Ischemic Attack (TIA)) then Transcatheter Valve Therapy Procedure Type (14273) must be Equal to (TAVR, TMVr, TMVR)		Short Name: AJ_AdjudEvent
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single (Dynamic List)
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 12153 Intra or Post Procedure Events		
Operator: Equal		
Value: Stroke - Hemorrhagic		
Element: 12153 Intra or Post Procedure Events		
Operator: Equal		
Value: Stroke - Ischemic		
Element: 12153 Intra or Post Procedure Events		
Operator: Equal		
Value: Stroke - Undetermined		
Element: 12153 Intra or Post Procedure Events		
Operator: Equal		
Value: Transient Ischemic Attack (TIA)		
Element: 12153 Intra or Post Procedure Events		
Operator: Equal		
Value: Reintervention - Mitral Valve		
Element: 12153 Intra or Post Procedure Events		
Operator: Equal		
Value: Reintervention - Tricuspid Valve		
Element: 12153 Intra or Post Procedure Events		
Operator: Equal		
Value: Reintervention - Aortic Valve		
--- AND ---		
Element: 9002 Intra/Post-Procedure Events Occurred		
Operator: Equal		
Value: Yes		

Intra or Post Procedure Events - 1.3.6.1.4.1.19376.1.4.1.6.5.706

Selection	Definition	Source	Code	Code System Name
Annular Rupture	Annular rupture (or 'annulus rupture') is an umbrella term covering different procedural-related injuries of the aortic root and the left ventricular outflow tract (LVOT) during transcatheter aortic valve replacement. According to the anatomical location of the injury, it can be classified into 4 types: intra-annular, subannular, supra-annular, and combined rupture This can also be called an 'aortic root rupture' and 'rupture of the device landing zone.'	Pasic, M, Unbehaun, A, et al. Annular Rupture During Transcatheter Aortic Valve Replacement. JACC Cardiovascular Interventions, Vol 8 (2015), #1, 1-9.	112000001835	ACC NCDR
Aortic Dissection	Include only Stanford classification type A or B aortic dissections, requiring surgical or percutaneous intervention. The Stanford classification is divided into type A and B depending on whether the ascending aorta is involved. The Stanford classification is in close relationship to clinical practice, as type A dissections generally require primary surgical repair whereas type B dissections generally are	Poonyagariyagorn H, Hook M, Bhatt DL. Cardiovascular emergencies. In: Cleveland Clinic: Current Clinical Medicine 2009. 1st ed. Philadelphia, Pa: Saunders Elsevier; 2008: chap 14; Ankel F. Aortic dissection. In: Marx JA, ed. Rosen's Emergency Medicine: Concepts and Clinical Practice. 7th ed. Philadelphia, Pa: Mosby	308546005	SNOMED CT



Section: In-Hospital Event Information

Parent: Lab Visit

treated medically as initial treatment with surgery Elsevier; 2009: chap 83.
reserved for any complications.

Type A - Involves the ascending aorta and/or aortic arch, and possibly the descending aorta. The tear can originate in the ascending aorta, the aortic arch, or, more rarely, in the descending aorta. It includes DeBakey type I, II and retrograde type III (dissection originating in the descending aorta or aortic arch but extending into the ascending aorta).

Type B - Involves the descending aorta (distal to left subclavian artery origin), without involvement of the ascending aorta or aortic arch. It includes DeBakey type III without retrograde extension into the ascending aorta.

ASD Defect Closure due to Transseptal Catheterization	A procedure was required to close an atrial-septal defect as a result of the transseptal catheterization procedure.	112000001885	ACC NCDR
Atrial Fibrillation	Atrial fibrillation or flutter requiring treatment or prolonged hospitalization. Treatment includes initiation of a NEW/DIFFERENT medication therapy to address the arrhythmia; or a procedure/intervention to address the arrhythmia (cardioversion, permanent pacemaker/defibrillator, ablation, etc.).	49436004	SNOMED CT
Bleeding - Access Site	Indicate if the patient experienced a confirmed bleeding event at the access site observed and documented in the medical record that was associated with any of the following: 1. Hemoglobin drop of ≥ 3 g/dL; 2. Transfusion of whole blood or packed red blood cells; 3. Procedural intervention/surgery at the bleeding site to reverse/stop or correct the bleeding (such as surgical closures/exploration of the arteriotomy site, balloon angioplasty to seal an arterial tear, endoscopy with cautery of a GI bleed).	1000142440	ACC NCDR
Bleeding - Gastrointestinal	The patient experienced a confirmed gastrointestinal bleeding event observed and documented in the medical record that was associated with any of the following: 1. Hemoglobin drop of ≥ 3 g/dL; 2. Transfusion of whole blood or packed red blood cells; 3. Procedural intervention/surgery at the bleeding site to reverse/stop or correct the bleeding (such as surgical closures/exploration of the arteriotomy site, balloon angioplasty to seal an arterial tear, endoscopy with cautery of a GI bleed).	74474003	SNOMED CT
Bleeding - Genitourinary	Indicate if the patient experienced a confirmed genitourinary bleeding event observed and documented in the medical record that was associated with any of the following: 1. Hemoglobin drop of ≥ 3 g/dL; 2. Transfusion of whole blood or packed red blood cells; 3. Procedural intervention/surgery at the bleeding site to reverse/stop or correct the bleeding.	417941003	SNOMED CT
Bleeding - Hematoma at Access Site	Indicate if the patient experienced a confirmed hematoma at the access site observed and documented in the medical record that was associated with any of the following: 1. Hemoglobin drop of ≥ 3 g/dL; 2. Transfusion of whole blood or packed red blood cells; 3. Procedural intervention/surgery at the bleeding site to reverse/stop or correct the bleeding (such as surgical closures/exploration of the arteriotomy site, balloon angioplasty to seal an arterial tear, endoscopy with cautery of a GI bleed).	385494008	SNOMED CT
Bleeding - Other	The patient experienced bleeding from a site not	1000142371	ACC NCDR



Section: In-Hospital Event Information		Parent: Lab Visit	
	otherwise specified, such as pulmonary bleeding or a subdural hematoma (not a hemorrhagic stroke). To qualify, the bleeding should be associated with any of the following documented in the medical record: 1. Hemoglobin drop of ≥ 3 g/dL; 2. Transfusion of whole blood or packed red blood cells; 3. Procedural intervention/surgery at the bleeding site to reverse/stop or correct the bleeding (such as surgical closures/exploration of the arteriotomy site or balloon angioplasty to seal an arterial tear).		
Bleeding - Retroperitoneal	Indicate if the patient experienced a confirmed retroperitoneal bleeding event observed and documented in the medical record that was associated with any of the following: 1. Hemoglobin drop of ≥ 3 g/dL; 2. Transfusion of whole blood or packed red blood cells; 3. Procedural intervention/surgery at the bleeding site to reverse/stop or correct the bleeding (such as surgical closures/exploration of the arteriotomy site, balloon angioplasty to seal an arterial tear).	95549001	SNOMED CT
Cardiac Arrest	Cardiac arrest is defined as acute cardiac event documented by one of the following: ventricular fibrillation, rapid ventricular tachycardia or bradycardia rhythms with hemodynamic compromise causing loss of consciousness, pulseless rhythms (PEA), or asystole requiring cardiopulmonary resuscitation (two or more chest compressions or open chest massage, emergency temporary pacing, pericardiocentesis, institution of ECMO, or defibrillation) and without these measures death would have almost certainly resulted.	Data Governance Subcommittee of the NCDR's SQOC	410429000 SNOMED CT
Cardiac Perforation	A perforation of the myocardium, aortic annulus or aorta, with or without tamponade associated with the perforation. If tamponade occurs there would be fluid in the pericardial space compromising cardiac filling, and requiring intervention such as pericardiocentesis or returning to the operating room. This should be documented by either: 1. Echo showing pericardial fluid and signs of tamponade such as right heart compromise, or 2. Systemic hypotension due to pericardial fluid compromising cardiac function.	36191001:123005000=302509004	SNOMED CT
Cardiac Surgery or Intervention - Other Unplanned	The patient subsequently underwent cardiac surgery or a cath lab intervention that was unplanned. This does not include an intervention or procedure already identified as an adverse event in the TVT Registry (e.g. AV reintervention, other vascular surgery or intervention, pacemaker or ICD implant).	112000001892	ACC NCDR
Complete Leaflet Clip Detachment	A complete detachment of the leaflet clip from the valve leaflets occurred	112000001840	ACC NCDR
Coronary Artery Compression	Angiographic or echocardiographic evidence of a new, partial or complete obstruction of a coronary ostium, either by the valve prosthesis itself, the native leaflets, calcifications, or dissection, occurring during or after the procedure.	112000001837	ACC NCDR
COVID-19 Positive	The patient had a diagnosis of COVID-19, confirmed with a laboratory performed polymerase chain reaction (PCR) test. Notes: It is acceptable to code the diagnosis of COVID-19 based on testing that was NOT performed at your facility if it is accompanied by appropriate documentation in the medical record by the provider. Code no if documentation ONLY included antibody testing (IgG).	112000001982	ACC NCDR
Delivery System Component Embolization	A component of the delivery system became detached and embolized into the heart or vascular system of the patient.	112000001841	ACC NCDR
Device Embolization	The device became displaced from its initial	112000001324	ACC NCDR



Section: In-Hospital Event Information		Parent: Lab Visit	
	implantation site so that it is no longer in its original position.		
Device Migration	Device migration of the prosthetic valve is x-ray confirmed movement of the valve from its initial implantation site such that there is a change in valve orientation within the aortic outflow track resulting in a new echocardiographic confirmed flow disturbance (pre- and post- filmed documentation). Note: Code device embolization if the device is outside of the outflow tract.	370512004	SNOMED CT
Device Related Event - Other	Indicate if an otherwise unspecified device-related event requiring unanticipated treatment occurred. This includes any delivery system related event.	112000001828	ACC NCDR
Device Thrombosis	Any thrombus attached to or near the valve that was implanted during the procedure that occludes part of the blood flow path, interferes with valve function, or is sufficiently large to warrant treatment.	Updated Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation (JACC, 2012, Vol 60, No 15) 112000001839	ACC NCDR
Dialysis (New Requirement)	Acute or worsening renal failure necessitating a new requirement for renal dialysis (renal dialysis includes hemodialysis and peritoneal dialysis). If a patient is on receiving continuous veno-venous hemofiltration (CVVH) as a result of renal failure (and not as treatment to remove fluid for heart failure), code yes.	100014076	ACC NCDR
Endocarditis	Confirmed diagnosis of endocarditis by blood culture and/or vegetation on or around a heart valve. This may include native tissue, ring or prosthetic valve involvement.	Society of Thoracic Surgeons (STS) 56819008	SNOMED CT
ICD	The patient developed a new dysrhythmia requiring insertion of an implantable cardioverter/defibrillator.	ACC-NCDR-ICD	ACC NCDR
Left Ventricular Outflow Tract Obstruction	Left ventricular outflow tract obstruction (pressure gradient assessed by with echo-Doppler velocities or by catheter-based pressure measurement) was documented in the medical record.	253546004	SNOMED CT
Mitral Leaflet or Subvalvular Injury	A mitral leaflet or subvalvular injury was detected during surgery or ascertained by echocardiogram.	112000001886	ACC NCDR
Myocardial Infarction	A myocardial infarction (MI) is defined as an acute ischemic event that is associated with documented and clinically significant myocardial necrosis. The MI can be periprocedural (<72 hours after the procedure) or spontaneous (>72 hours after the index procedure). 1. Peri-procedural MI (<72 h after the index procedure) (a) New ischemic symptoms (e.g. chest pain or shortness of breath), or new ischemic signs (e.g. ventricular arrhythmias, new or worsening heart failure, new ST-segment changes, hemodynamic instability, new pathological Q waves in at least two contiguous leads, imaging evidence of new loss of viable myocardium or new wall motion abnormality) AND (b) Elevated cardiac biomarkers (preferable CK-MB) within 72 h after the index procedure, consisting of at least one sample post-procedure with a peak value exceeding 15 x as the upper reference limit for troponin or 5 x for CK-MB.* If cardiac biomarkers are increased at baseline (>99th percentile), a further increase in at least 50% post-procedure is required AND the peak value must exceed the previously stated limit. 2. Spontaneous MI (≥72 h after the index procedure) any one of the following criteria: (a) Detection of rise and/or fall of cardiac biomarkers (preferably troponin) with at least one value above the 99th percentile URL, together with the evidence of myocardial ischemia with at least	Updated Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation Clinical Trials (JACC, 2012, vol 60, No 15) 22298006	SNOMED CT



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	one of the following: -Symptoms of ischemia -ECG changes indicative of new ischemia [new ST-T changes or new left bundle branch block (LBBB)] -New pathological Q-waves in at least two contiguous leads -Imaging evidence of a new loss of viable myocardium or new wall motion abnormality (b) Sudden, unexpected cardiac death, involving cardiac arrest, often with symptoms suggestive of myocardial ischemia, and accompanied by presumably new ST elevation, or new LBBB, and/or evidence of fresh thrombus by coronary angiography and/or at autopsy, but death occurring before blood samples could be obtained, or at a time before the appearance of cardiac biomarkers in the blood. (c) Pathological findings of an acute myocardial infarction.			
Pacemaker Lead Dislodgement or Dysfunction	Pacemaker lead dislodgement or pacemaker dysfunction was documented in the medical record..		112000001884	ACC NCDR
Percutaneous Coronary Intervention	A 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.	National Cardiovascular Data Registry (NCDR)	415070008	SNOMED CT
Permanent Pacemaker	The patient developed a new dysrhythmia requiring insertion of a permanent pacemaker.		449397007	SNOMED CT
Pulmonary Embolism	Intravascular migration of a venous thrombus to the pulmonary arterial circulation. A 'Proved Pulmonary Embolism' is proved by a positive pulmonary angiogram, an unequivocally positive helical CT scan, a high-probability ventilation-perfusion scan, or autopsy.	Banovac, F., et al. Reporting Standards for Endovascular Treatment of Pulmonary Embolism. Journal of Vascular Interventional Radiology 2010; 21:44-53	59282003	SNOMED CT
Reintervention - Aortic Valve	The patient returned to the operating room or cath lab for any aortic valve re-intervention. Note: Please complete adjudication worksheet for every documented aortic valve reintervention, regardless of type of reintervention.		112000001827	ACC NCDR
Reintervention - Mitral Valve	The patient returned to the operating room or cath lab for any mitral valve re-intervention. Note: Please complete adjudication worksheet for every documented mitral valve reintervention, regardless of type of reintervention.		112000001893	ACC NCDR
Reintervention - Tricuspid Valve	The patient returned to the operating room or cath lab for any tricuspid valve re-intervention. Note: Please complete adjudication worksheet for every documented tricuspid valve reintervention, regardless of type of reintervention.		112000001820	ACC NCDR
Single Leaflet Device Attachment	Single leaflet device attachment was documented in the medical record.		112000001538	ACC NCDR
Stroke - Hemorrhagic	An acute episode of focal or global cerebral or spinal dysfunction caused by intraparenchymal, intraventricular or subarachnoid hemorrhage. Note: Subdural hematomas are intracranial hemorrhagic events and not strokes.	Hicks, K., Tcheng, J. 2014 ACC/AHA Key Data Elements and Definitions for Cardiovascular Endpoint Events in Clinical Trials A Report of the ACC/AHA Task Force on Clinical Data Standards (Writing Committee to Develop Cardiovascular Endpoints Data Standards). JACC 2015, 66 (4), p 403-469	230706003	SNOMED CT
Stroke - Ischemic	An acute episode of focal cerebral, spinal, or retinal dysfunction caused by infarction of central nervous system tissue. Note: Hemorrhage may be a consequence of ischemic stroke. In this situation, the stroke is an ischemic stroke with hemorrhagic transformation and not a hemorrhagic stroke.	Hicks, K., Tcheng, J. 2014 ACC/AHA Key Data Elements and Definitions for Cardiovascular Endpoint Events in Clinical Trials A Report of the ACC/AHA Task Force on Clinical Data Standards (Writing Committee to Develop Cardiovascular Endpoints Data Standards). JACC 2015, 66 (4), p 403-469	422504002	SNOMED CT
Stroke - Undetermined	A stroke of undetermined origin is defined as an acute episode of focal or global neurological	Hicks KA, Tcheng JE, Bozkurt B, et al. 2014 ACC/AHA Key Data Elements and Definitions for	230713003	SNOMED CT



Section: In-Hospital Event Information		Parent: Lab Visit		
	dysfunction caused by presumed brain, spinal cord, or retinal vascular injury as a result of hemorrhage or infarction but with insufficient information to allow categorization as ischemic or hemorrhagic.	Cardiovascular Endpoint Events in Clinical Trials: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Data Standards (Writing Committee to Develop Cardiovascular Endpoints Data Standards). J Am Coll Cardiol. 2015;66(4):403-469. doi:10.1016/j.jacc.2014.12.018.		
Transient Ischemic Attack (TIA)	A transient episode of focal neurological dysfunction caused by brain, spinal cord, or retinal ischemia, without acute infarction, where the neurological dysfunction resolves within 24 hours.	Society for Thoracic Surgeons (STS)	266257000	SNOMED CT
Transseptal Complication	The patient experienced an adverse event as a result of the transseptal access.		112000001833	ACC NCDR
Tricuspid Leaflet or Subvalvular Injury	A tricuspid leaflet or subvalvular injury was detected during surgery or ascertained by echocardiogram.		112000004338	ACC NCDR
Vascular Complication - Major	Major vascular complications include any of the following: 1. Any aortic dissection, aortic rupture, annulus rupture, left ventricle perforation, or new apical aneurysm/pseudo-aneurysm; 2. Access site or access-related vascular injury (dissection, stenosis, perforation, rupture, arteriovenous fistula, pseudoaneurysm, hematoma, irreversible nerve injury, compartment syndrome, percutaneous closure device failure) leading to death, life threatening or major bleeding*, visceral ischemia or neurological impairment; 3. Distal embolization (non-cerebral) from a vascular source requiring surgery or resulting in amputation or irreversible end-organ damage; 4. The use of unplanned endovascular or surgical intervention associated with death, major bleeding, visceral ischemia or neurological impairment; 5. Any new ischemia documented by patient symptoms, physical exam, and/or decreased or absent blood flow on lower extremity angiogram; 6. Surgery for access site-related nerve injury; 7. Permanent access site-related nerve injury. *Refers to VARC bleeding definitions Note: "ipsilateral lower extremity" was removed from #5 to have the ability to account for ischemia from any access site.	Updated Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation (JACC, 2012, Vol 60, No 15)	112000000460	ACC NCDR
Vascular Complication - Minor	Minor vascular complications include any of the following: 1. Access site or access-related vascular injury (dissection, stenosis, perforation, rupture, arteriovenous fistula, pseudoaneurysms, hematomas, percutaneous closure device failure) not leading to death, life-threatening or major bleeding*, visceral ischemia or neurological impairment; 2. Distal embolization treated with embolectomy and/or thrombectomy and not resulting in amputation or irreversible end-organ damage; 3. Any unplanned endovascular stenting or unplanned surgical intervention not meeting the criteria for a major vascular complication; 4. Vascular repair or the need for vascular repair (via surgery, ultrasound-guided compression, transcatheter embolization, or stent-graft). *Refers to VARC bleeding definitions	Updated Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation (JACC, 2012, Vol 60, No 15)	112000001823	ACC NCDR
Vascular Surgery or Intervention - Unplanned	The patient required unplanned vascular surgery or intervention to correct a bleeding complication or vascular related complication. Note: If a balloon angioplasty of the access site or access related sites is performed as a routine procedure to ensure adequate hemostasis of the site, then this would not qualify as an Unplanned Vascular Surgery or Intervention. However, if a balloon angioplasty is performed in an attempt to treat a bleeding or vascular access complication (i.e. bleeding at access site, dissection, stenosis, narrowing of vessel, etc.), then Unplanned		112000000467	ACC NCDR



Section: In-Hospital Event Information

Parent: Lab Visit

Vascular Surgery or Intervention should be captured.

Element: 14313 Adjudication Event Date

Coding Instruction: Indicate the date the clinical event being adjudicated occurred.

Target Value: N/A

Vendor Instruction: The Adjudication Event Date (14313) / Adjudication Event Code (14312) must match with Intra or Post-Procedure Event Date (14275) / Intra or Post Procedure Event Code (12153)

Technical Specification

Code: 112000001816

Code System Name: ACC NCDR

Short Name: AJ_EventDate

Missing Data: Report

Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: DT

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 14312 Adjudication Event

Operator: Equal

Value: Reintervention - Aortic Valve

Element: 14312 Adjudication Event

Operator: Equal

Value: Reintervention - Mitral Valve

Element: 14312 Adjudication Event

Operator: Equal

Value: Stroke - Hemorrhagic

Element: 14312 Adjudication Event

Operator: Equal

Value: Stroke - Ischemic

Element: 14312 Adjudication Event

Operator: Equal

Value: Stroke - Undetermined

Element: 14312 Adjudication Event

Operator: Equal

Value: Transient Ischemic Attack (TIA)

Element: 14312 Adjudication Event

Operator: Equal

Value: Reintervention - Tricuspid Valve



Section: In-Hospital Event Information

Parent: Lab Visit

Element: 14314 Adjudication Status		Technical Specification
Coding Instruction: Indicate whether the patient was alive or deceased on the date the adjudication was performed.		Code: 112000001817
Target Value: N/A		Code System Name: ACC NCDR
Vendor Instruction: Adjudication Status (14314) as 'Deceased' must be answered only once in the episode.		Short Name: AJ_Status
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14312 Adjudication Event		
Operator: Equal		
Value: Reintervention - Aortic Valve		
Element: 14312 Adjudication Event		
Operator: Equal		
Value: Reintervention - Mitral Valve		
Element: 14312 Adjudication Event		
Operator: Equal		
Value: Stroke - Hemorrhagic		
Element: 14312 Adjudication Event		
Operator: Equal		
Value: Stroke - Ischemic		
Element: 14312 Adjudication Event		
Operator: Equal		
Value: Stroke - Undetermined		
Element: 14312 Adjudication Event		
Operator: Equal		
Value: Transient Ischemic Attack (TIA)		
Element: 14312 Adjudication Event		
Operator: Equal		
Value: Reintervention - Tricuspid Valve		
----- AND -----		
Element: 14313 Adjudication Event Date		
Operator:		
Value: Any Value		

Adjudication Life Status - 1.3.6.1.4.1.19376.1.4.1.6.5.726

Selection	Definition	Source	Code	Code System Name
Alive			438949009	SNOMED CT
Deceased			20	HL7 Discharge disposition



Section: In-Hospital Event Information

Parent: Lab Visit

Element: 14315		Adjudication Date of Death	Technical Specification
Coding Instruction:		Indicate the date the patient was declared dead.	Code: 399753006
Target Value:		N/A	Code System Name: SNOMED CT
Vendor Instruction:		Adjudication Date of Death (14315) must be Greater than or Equal to Adjudication Event Date (14313)	Short Name: AJ_DeathDate
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: DT
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 14314 Adjudication Status
			Operator: Equal
			Value: Deceased

Element: 14462		In Hospital Clinical Comments	Technical Specification
Coding Instruction:		Provide information and details that may assist in assessing the event(s) being adjudicated.	Code: 423016009
Target Value:		N/A	Code System Name: SNOMED CT
			Short Name: AJ_CommentsInHosp
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: ST
			Precision: 1000
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User



Section: Stroke Or TIA

Parent: In-Hospital Event Information

Element: 14316 Symptom Onset Date

Coding Instruction: Indicate the date of symptom onset of the neurologic deficit.

Target Value: N/A

Technical Specification

Code: 112000000125

Code System Name: ACC NCDR

Short Name: AJ_SxOnset

Missing Data: Report

Harvested: Yes (TAVR, TMVR, TMVrpr)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: DT

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 14312 Adjudication Event

Operator: Equal

Value: Stroke - Hemorrhagic

Element: 14312 Adjudication Event

Operator: Equal

Value: Stroke - Ischemic

Element: 14312 Adjudication Event

Operator: Equal

Value: Stroke - Undetermined

Element: 14312 Adjudication Event

Operator: Equal

Value: Transient Ischemic Attack (TIA)

----- AND -----

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TAVR

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVR

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVr



Section: Stroke Or TIA

Parent: In-Hospital Event Information

Element: 14317		Neurologic Deficit with Rapid Onset	Technical Specification
Coding Instruction:		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.	Code: 264552009 Code System Name: SNOMED CT Short Name: AJ_NeuroDef Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Target Value:		N/A	Parent/Child Validation
			Element: 14312 Adjudication Event Operator: Equal Value: Stroke - Hemorrhagic Element: 14312 Adjudication Event Operator: Equal Value: Stroke - Ischemic Element: 14312 Adjudication Event Operator: Equal Value: Stroke - Undetermined Element: 14312 Adjudication Event Operator: Equal Value: Transient Ischemic Attack (TIA) ----- AND ----- Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TAVR Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TMVR Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TMVr



Section: Stroke Or TIA

Parent: In-Hospital Event Information

Element: 14318		Neurologic Deficit Clinical Presentation	Technical Specification	
Coding Instruction:		Indicate the clinical presentation of the neurologic deficit.	Code:	264552009
Target Value:		N/A	Code System Name:	SNOMED CT
			Short Name:	AJ_NeuroClinPresent
			Missing Data:	Report
			Harvested:	Yes (BDS, TAVR, TMVR, TMVrpr)
			Is Identifier:	No
			Is Base Element:	Yes
			Is Followup Element:	No
			Data Type:	CD
			Precision:	
			Selection Type:	Single
			Unit of Measure:	
			Default Value:	Null
			Usual Range:	
			Valid Range:	
			Data Source:	User
Parent/Child Validation				
Element:		14317	Neurologic Deficit with Rapid Onset	
Operator:		Equal		
Value:		Yes		

Neurologic Deficit Clinical Presentation - 1.3.6.1.4.1.19376.1.4.1.6.5.716

Selection	Definition	Source	Code	Code System Name
TIA or Stroke (CVA)			100014109	ACC NCDR
Non Stroke Neurologic Deficit			112000001860	ACC NCDR

Element: 14319		Neurologic Symptom Duration Greater Than or Equal to 24 hours	Technical Specification	
Coding Instruction:		Indicate if the duration of the neurologic symptoms lasted >= 24 hours.	Code:	308921004
Target Value:		N/A	Code System Name:	SNOMED CT
			Short Name:	AJ_NeuroSymptDuration
			Missing Data:	Report
			Harvested:	Yes (TAVR, TMVR, TMVrpr)
			Is Identifier:	No
			Is Base Element:	Yes
			Is Followup Element:	No
			Data Type:	BL
			Precision:	
			Selection Type:	Single
			Unit of Measure:	
			Default Value:	Null
			Usual Range:	
			Valid Range:	
			Data Source:	User
Parent/Child Validation				
Element:		14318	Neurologic Deficit Clinical Presentation	
Operator:		Equal		
Value:		TIA or Stroke (CVA)		



Section: Stroke Or TIA

Parent: In-Hospital Event Information

Element: 14320 Brain Imaging Performed		Technical Specification
Coding Instruction: Indicate if neuroimaging was performed.		Code: 441986001
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: AJ_BrainImag
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14318 Neurologic Deficit Clinical Presentation
		Operator: Equal
		Value: TIA or Stroke (CVA)

Element: 14349 Brain Imaging Type		Technical Specification
Coding Instruction: Indicate the type of neuroimaging performed.		Code: 441986001
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: AJ_BrainImageType
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14320 Brain Imaging Performed
		Operator: Equal
		Value: Yes

Imaging Type - 1.3.6.1.4.1.19376.1.4.1.6.5.417

Selection	Definition	Source	Code	Code System Name
Computed Tomography			77477000	SNOMED CT
Computed Tomography with Contrast			112000001861	ACC NCDR
Magnetic Resonance Imaging			113091000	SNOMED CT
Magnetic Resonance Imaging with Contrast			51619007	SNOMED CT
Other Imaging			112000001862	ACC NCDR



Section: Stroke Or TIA

Parent: In-Hospital Event Information

Element: 14350 Brain Imaging Findings

Coding Instruction: Indicate the type of deficit found as a result of the neuroimaging study.

Target Value: N/A

Technical Specification

Code: 112000001979

Code System Name: ACC NCDR

Short Name: BI_Find

Missing Data: Report

Harvested: Yes (TAVR, TMVR, TMVrpr)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: CD

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 14320 Brain Imaging Performed

Operator: Equal

Value: Yes

Brain Imaging Finding - 1.3.6.1.4.1.19376.1.4.1.6.5.717

Selection	Definition	Source	Code	Code System Name
Infarct	Neuroimaging evidence of CNS infarction in the corresponding vascular territory (brain, spinal cord, or retinal cell death), with or without hemorrhage.	Adapted from: Lansky, A.J., et al. Proposed Standardized Neurological Endpoints for Cardiovascular Clinical Trials (An Academic Research Consortium Initiative) JACC 2017, 69 (6): 679-690	55641003	SNOMED CT
Hemorrhage	Neuroimaging evidence of central nervous system (CNS) hemorrhage within the brain parenchyma, subarachnoid space, ventricular system, spinal cord, or retina that is not caused by trauma.	Adapted from: Lansky, A.J., et al. Proposed Standardized Neurological Endpoints for Cardiovascular Clinical Trials (An Academic Research Consortium Initiative) JACC 2017, 69 (6): 679-690	50960005	SNOMED CT
No Deficit			100001231	ACC NCDR



Section: Stroke Or TIA

Parent: In-Hospital Event Information

Element: 14351 Event Related Sequelae		Technical Specification
Coding Instruction: Indicate the sequelae related to the stroke or TIA.		Code: 362977000
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: Adj_ERS
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Multiple
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14318 Neurologic Deficit Clinical Presentation		
Operator: Equal		
Value: TIA or Stroke (CVA)		

Event Related Sequelae - 1.3.6.1.4.1.19376.1.4.1.6.5.737

Selection	Definition	Source	Code	Code System Name
Death			419620001	SNOMED CT
Permanent Vegetative State			723151005	SNOMED CT
Altered Consciousness			3006004	SNOMED CT
Blindness			193699007	SNOMED CT
Aphasia			87486003	SNOMED CT
Loss of Motor Function			112000001936	ACC NCDR
Loss of Sensory Function			33653009	SNOMED CT
Facial Paralysis			280816001	SNOMED CT
Prolonged Length of Stay			112000001937	ACC NCDR
Other			100000351	ACC NCDR



Section: Stroke Or TIA

Parent: In-Hospital Event Information

Element: 14352 Discharge Location After Event		Technical Specification
Coding Instruction: Indicate the discharge location after the stroke or TIA.		Code: 75528-0
Target Value: N/A		Code System Name: LOINC
		Short Name: AJ_DLA
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14314 Adjudication Status
		Operator: Equal
		Value: Alive
		----- AND -----
		Element: 14312 Adjudication Event
		Operator: Equal
		Value: Stroke - Hemorrhagic
		Element: 14312 Adjudication Event
		Operator: Equal
		Value: Stroke - Ischemic
		Element: 14312 Adjudication Event
		Operator: Equal
		Value: Stroke - Undetermined
		Element: 14312 Adjudication Event
		Operator: Equal
		Value: Transient Ischemic Attack (TIA)
		----- AND -----
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TAVR
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVr
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TMVR

Discharge Location - 1.3.6.1.4.1.19376.1.4.1.6.5.41

Selection	Definition	Source	Code	Code System Name
Home			01	HL7 Discharge disposition
Skilled Nursing Facility	Skilled nursing facilities (SNF) are typically sub-acute programs used for longer anticipated length of stay.		03	HL7 Discharge disposition
	Note: Sometimes SNFs may have acute rehabilitation beds within their facility. If the patient is discharged to a SNF for acute rehab (requiring a higher level of care), code "extended care/TCU/rehab".			
Extended Care/TCU/Rehab	An extended care unit, transitional care unit or rehab unit typically provides a high level of intensive therapy as well as specialized nursing and physician care. This discharge setting may also be called subacute care or long term acute care (LTACH).		62	HL7 Discharge disposition
Other Acute Care Hospital			02	HL7 Discharge disposition
Left Against Medical Advice (AMA)	The patient was discharged or eloped against medical advice.		07	HL7 Discharge disposition



Section: Stroke Or TIA

Parent: In-Hospital Event Information

Other Discharge Location

100001249

ACC NCDR

Element: 14421 Patient Discharged to Prior Place of Living

Coding Instruction: Indicate if the patient was discharged to their prior place of living.

Target Value: N/A

Technical Specification

Code: 112000001882

Code System ACC NCDR

Name:

Short Name: AJ_PriorLiving

Missing Data: Report

Harvested: Yes (TAVR, TMVR, TMVrpr)

Is Identifier: No

Is Base Element: Yes

Is Followup

Element: No

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 14314 Adjudication Status

Operator: Equal

Value: Alive

AND

Element: 14312 Adjudication Event

Operator: Equal

Value: Stroke - Hemorrhagic

Element: 14312 Adjudication Event

Operator: Equal

Value: Stroke - Ischemic

Element: 14312 Adjudication Event

Operator: Equal

Value: Stroke - Undetermined

Element: 14312 Adjudication Event

Operator: Equal

Value: Transient Ischemic Attack (TIA)

AND

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TAVR

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVr

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVR



Section: Stroke Or TIA

Parent: In-Hospital Event Information

Element: 14353 Stroke Diagnosed During Autopsy

Coding Instruction: Indicate if the stroke was diagnosed during autopsy.

Target Value: N/A

Technical Specification

Code: 5605004

Code System Name: SNOMED CT

Short Name: AJ_AutDxStroke

Missing Data: Report

Harvested: Yes (TAVR, TMVR, TMVrpr)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: CD

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 14314 Adjudication Status

Operator: Equal

Value: Deceased

----- AND -----

Element: 14312 Adjudication Event

Operator: Equal

Value: Stroke - Hemorrhagic

Element: 14312 Adjudication Event

Operator: Equal

Value: Stroke - Ischemic

Element: 14312 Adjudication Event

Operator: Equal

Value: Stroke - Undetermined

Element: 14312 Adjudication Event

Operator: Equal

Value: Transient Ischemic Attack (TIA)

----- AND -----

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TAVR

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVr

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVR

Boolean with Information Not Available - 1.3.6.1.4.1.19376.1.4.1.6.5.718

Selection	Definition	Source	Code	Code System Name
No			100013073	ACC NCDR
Yes			100013072	ACC NCDR
Information Not Available			112000001866	ACC NCDR



Section: AV Re-Intervention

Parent: In-Hospital Event Information

Element: 14354 Aortic Valve Reintervention Type		Technical Specification
Coding Instruction: Indicate the type of aortic valve reintervention.		Code: 112000001868
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: AJ_RelIntType
		Missing Data: Report
		Harvested: Yes (BDS, TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14312 Adjudication Event		
Operator: Equal		
Value: Reintervention - Aortic Valve		
----- AND -----		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TAVR		

Valve Reintervention Type - 1.3.6.1.4.1.19376.1.4.1.6.5.719

Selection	Definition	Source	Code	Code System Name
Surgical Replacement			112000001872	ACC NCDR
Surgical Repair			112000001871	ACC NCDR
Transcatheter Replacement			112000001875	ACC NCDR
Balloon Valvuloplasty			112000001469	ACC NCDR
Leaflet Clip Procedure			112000001778	ACC NCDR
Paravalvular Leak Closure			112000001916	ACC NCDR
Other Transcatheter Intervention			112000001873	ACC NCDR



Section: AV Re-Intervention

Parent: In-Hospital Event Information

Element: 14355		Technical Specification
Aortic Valve Reintervention Primary Indication		Code: 112000001825
Coding Instruction: Indicate the primary indication for the reintervention. If more than one indication is present, code the indication the operator feels has the highest significance.		Code System Name: ACC NCDR
Target Value: N/A		Short Name: AJ_PrimaryInd
		Missing Data: Report
		Harvested: Yes (BDS, TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14312 Adjudication Event		
Operator: Equal		
Value: Reintervention - Aortic Valve		
----- AND -----		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TAVR		

Valve Reintervention Indication - 1.3.6.1.4.1.19376.1.4.1.6.5.720

Selection	Definition	Source	Code	Code System Name
Regurgitation			40445007	SNOMED CT
Stenosis			44241007	SNOMED CT
Device Embolization			112000001324	ACC NCDR
Device Fracture			112000001891	ACC NCDR
Device Migration			370512004	SNOMED CT
Endocarditis			56819008	SNOMED CT
Paravalvular Leak			234184000	SNOMED CT
Device Thrombosis			112000001839	ACC NCDR
Valve Injury			762610001	SNOMED CT
Other			100000351	ACC NCDR



Section: AV Re-Intervention

Parent: In-Hospital Event Information

Element: 14356 Aortic Valve Regurgitation		Technical Specification
Coding Instruction: Indicate the highest level of aortic regurgitation prior to the aortic valve reintervention.		Code: 112000001869
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: AJ_AISev
		Missing Data: Report
		Harvested: Yes (BDS, TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14355 Aortic Valve Reintervention		
Primary Indication		
Operator: Equal		
Value: Regurgitation		

Valve Regurgitation Severity - 1.3.6.1.4.1.19376.1.4.1.6.5.767

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Trace/Trivial			112000001911	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: AV Re-Intervention

Parent: In-Hospital Event Information

Element: 14357 Paravalvular Aortic Regurgitation		Technical Specification
Coding Instruction: Indicate the highest severity of paravalvular regurgitation prior to the aortic valve reintervention.		Code: 112000001428
Note: If trace/trivial is documented, code "none".		Code System Name: ACC NCDR
Target Value: N/A		Short Name: AJ_PVSev
		Missing Data: Report
		Harvested: Yes (TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14356	Aortic Valve Regurgitation	
Operator:	Equal	
Value:	Mild	
Element: 14356	Aortic Valve Regurgitation	
Operator:	Equal	
Value:	Moderate	
Element: 14356	Aortic Valve Regurgitation	
Operator:	Equal	
Value:	Severe	
Element: 14356	Aortic Valve Regurgitation	
Operator:	Equal	
Value:	Trace/Trivial	

Valve Regurgitation Severity 4 - 1.3.6.1.4.1.19376.1.4.1.6.5.768

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: AV Re-Intervention

Parent: In-Hospital Event Information

Element: 14358 Central Aortic Regurgitation

Coding Instruction: Indicate the highest severity of central regurgitation prior to the aortic valve reintervention.

Note: If trace/trivial is documented, code "none".

Target Value: N/A

Technical Specification

Code: 112000001433

Code System Name: ACC NCDR

Short Name: AJ_CenSev

Missing Data: Report

Harvested: Yes (TAVR)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: CD

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 14356 Aortic Valve Regurgitation

Operator: Equal

Value: Mild

Element: 14356 Aortic Valve Regurgitation

Operator: Equal

Value: Moderate

Element: 14356 Aortic Valve Regurgitation

Operator: Equal

Value: Severe

Element: 14356 Aortic Valve Regurgitation

Operator: Equal

Value: Trace/Trivial

Valve Regurgitation Severity 4 - 1.3.6.1.4.1.19376.1.4.1.6.5.768

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR

Element: 14359 Aortic Valve Area

Coding Instruction: Indicate the smallest aortic valve area (in cm squared).

Target Value: N/A

Technical Specification

Code: 112000001280

Code System Name: ACC NCDR

Short Name: AJ_AVA

Missing Data: Report

Harvested: Yes (TAVR)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: PQ

Precision: 3,2

Selection Type: Single

Unit of Measure: cm2

Default Value: Null

Usual Range: 0.20 - 4.00 cm2

Valid Range: 0.05 - 5.00 cm2

Data Source: User

Parent/Child Validation

Element: 14355 Aortic Valve Reintervention

Primary Indication

Operator: Equal

Value: Stenosis



Section: AV Re-Intervention

Parent: In-Hospital Event Information

Element: 14282 Aortic Valve Mean Gradient

Coding Instruction: Indicate the aortic valve mean gradient in mm Hg.

Target Value: N/A

Technical Specification

Code: 112000001398

Code System Name: ACC NCDR

Short Name: AJ_AVG

Missing Data: Report

Harvested: Yes (BDS, TAVR)

Is Identifier: No

Is Base Element: Yes

Is Followup

Element: No

Data Type: PQ

Precision: 3,0

Selection Type: Single

Unit of Measure: mm[Hg]

Default Value: Null

Usual Range: 5 - 50 mm[Hg]

Valid Range: 0 - 200 mm[Hg]

Data Source: User

Parent/Child Validation

Element: 14355 Aortic Valve Reintervention
Primary Indication

Operator: Equal

Value: Stenosis



Section: MV Re-Intervention

Parent: In-Hospital Event Information

Element: 14360 Mitral Valve Reintervention Type

Coding Instruction: Indicate the type of mitral valve reintervention.

Target Value: N/A

Technical Specification

Code: 112000001868

Code System Name: ACC NCDR

Short Name: MVReinType

Missing Data: Report

Harvested: Yes (BDS, TMVR, TMVrpr)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: CD

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 14312 Adjudication Event

Operator: Equal

Value: Reintervention - Mitral Valve

----- AND -----

Element: 14273 Transcatheter Valve Therapy Procedure Type

Operator: Equal

Value: TMVR

Element: 14273 Transcatheter Valve Therapy Procedure Type

Operator: Equal

Value: TMVr

Valve Reintervention Type - 1.3.6.1.4.1.19376.1.4.1.6.5.719

Selection	Definition	Source	Code	Code System Name
Surgical Replacement			112000001872	ACC NCDR
Surgical Repair			112000001871	ACC NCDR
Transcatheter Replacement			112000001875	ACC NCDR
Balloon Valvuloplasty			112000001469	ACC NCDR
Leaflet Clip Procedure			112000001778	ACC NCDR
Paravalvular Leak Closure			112000001916	ACC NCDR
Other Transcatheter Intervention			112000001873	ACC NCDR



Section: MV Re-Intervention

Parent: In-Hospital Event Information

Element: 14361 Mitral Valve Reintervention Indication		Technical Specification
Coding Instruction: Indicate the primary indication for the reintervention. If more than one indication is present, code the indication the operator feels has the highest significance.		Code: 112000001825
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: MVReintInd
		Missing Data: Report
		Harvested: Yes (BDS, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14312 Adjudication Event		
Operator: Equal		
Value: Reintervention - Mitral Valve		
----- AND -----		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TMVR		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: TMVr		

Valve Reintervention Indication - 1.3.6.1.4.1.19376.1.4.1.6.5.720

Selection	Definition	Source	Code	Code System Name
Regurgitation			40445007	SNOMED CT
Stenosis			44241007	SNOMED CT
Device Embolization			112000001324	ACC NCDR
Device Fracture			112000001891	ACC NCDR
Device Migration			370512004	SNOMED CT
Endocarditis			56819008	SNOMED CT
Paravalvular Leak			234184000	SNOMED CT
Device Thrombosis			112000001839	ACC NCDR
Valve Injury			762610001	SNOMED CT
Other			100000351	ACC NCDR



Section: Tricuspid Valve Re-Intervention

Parent: In-Hospital Event Information

Element: 14322 Tricuspid Valve Reintervention Type		Technical Specification
Coding Instruction: Indicate the type of tricuspid valve re-intervention.		Code: 112000001868
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: AJ_TVReIn
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14312 Adjudication Event		
Operator: Equal		
Value: Reintervention - Tricuspid Valve		
----- AND -----		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: Tricuspid Valve Procedure		

Valve Reintervention Type - 1.3.6.1.4.1.19376.1.4.1.6.5.719

Selection	Definition	Source	Code	Code System Name
Surgical Replacement			112000001872	ACC NCDR
Surgical Repair			112000001871	ACC NCDR
Transcatheter Replacement			112000001875	ACC NCDR
Balloon Valvuloplasty			112000001469	ACC NCDR
Leaflet Clip Procedure			112000001778	ACC NCDR
Paravalvular Leak Closure			112000001916	ACC NCDR
Other Transcatheter Intervention			112000001873	ACC NCDR



Section: Tricuspid Valve Re-Intervention

Parent: In-Hospital Event Information

Element: 14347 Tricuspid Valve Reintervention Primary Indication		Technical Specification
Coding Instruction: Indicate the primary indication for the tricuspid valve re-intervention.		Code: 112000001825
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: AJ_TVInd
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14312 Adjudication Event		
Operator: Equal		
Value: Reintervention - Tricuspid Valve		
----- AND -----		
Element: 14273 Transcatheter Valve Therapy Procedure Type		
Operator: Equal		
Value: Tricuspid Valve Procedure		

Valve Reintervention Indication - 1.3.6.1.4.1.19376.1.4.1.6.5.720

Selection	Definition	Source	Code	Code System Name
Regurgitation			40445007	SNOMED CT
Stenosis			44241007	SNOMED CT
Device Embolization			112000001324	ACC NCDR
Device Fracture			112000001891	ACC NCDR
Device Migration			370512004	SNOMED CT
Endocarditis			56819008	SNOMED CT
Paravalvular Leak			234184000	SNOMED CT
Device Thrombosis			112000001839	ACC NCDR
Valve Injury			762610001	SNOMED CT
Other			100000351	ACC NCDR



Section: Tricuspid Valve Re-Intervention

Parent: In-Hospital Event Information

Element: 14383 Tricuspid Valve Regurgitation		Technical Specification
Coding Instruction: Indicate the severity of tricuspid valve regurgitation.		Code: 111287006
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: AJ_TR
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14347 Tricuspid Valve Reintervention Primary Indication		
Operator: Equal		
Value: Regurgitation		

Valve Regurgitation Severity - 1.3.6.1.4.1.19376.1.4.1.6.5.767

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Trace/Trivial			112000001911	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Post-Procedure Hemoglobin

Parent: Post-Procedure Clinical Data

Element: 13763 Hemoglobin		Technical Specification
Coding Instruction: Indicate the hemoglobin (Hgb) value in g/dL.		Code: 718-7
Target Value: The lowest value between end of current procedure and discharge		Code System Name: LOINC
Supporting Definition: Hemoglobin Hemoglobin (Hb or Hgb) is the iron-containing oxygen-transport metalloprotein in the red blood cells. It carries oxygen from the lungs to the rest of the body (i.e. the tissues) where it releases the oxygen to burn nutrients and provide energy. Hemoglobin concentration measurement is among the most commonly performed blood tests, usually as part of a complete blood count. If the concentration is below normal, this is called anemia. Anemias are classified by the size of red blood cells: "microcytic" if red cells are small, "macrocytic" if they are large, and "normocytic" if otherwise. Dehydration or hyperhydration can greatly influence measured hemoglobin levels. Source: http://s.details.loinc.org/LOINC/718-7.html?sections=Simple		Short Name: PostProcHgb1 Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVp) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: PQ Precision: 4,2 Selection Type: Single Unit of Measure: g/dL Default Value: Null Usual Range: 5.00 - 20.00 g/dL Valid Range: 1.00 - 50.00 g/dL Data Source: User
		Parent/Child Validation
		Element: 14243 Hemoglobin Not Drawn Operator: Equal Value: No (or Not Answered)

Element: 14243 Hemoglobin Not Drawn		Technical Specification
Coding Instruction: Indicate if a post-procedure hemoglobin was not collected.		Code: 718-7
Target Value: N/A		Code System Name: LOINC
		Short Name: PProcHgbND Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVp) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User



Section: Post-Procedure 12 Lead

Parent: Post-Procedure Clinical Data

Element: 13616		12 Lead Electrocardiogram Performed	Technical Specification
Coding Instruction:		Indicate if post procedure 12 lead ECG was performed.	Code: 164847006
Target Value:		Any occurrence between end of current procedure and discharge	Code System Name: SNOMED CT
			Short Name: POP_EKG
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User

Element: 13765		12 Lead Electrocardiogram Findings	Technical Specification
Coding Instruction:		Indicate the post procedure 12 lead ECG findings. If more than one ECG is performed, document the findings from any ECG.	Code: 112000001362
Target Value:		Any occurrence between end of current procedure and discharge	Code System Name: ACC NCDR
Vendor Instruction:		Cannot select option No Significant Changes with any other option: Pathological Q Wave, Cardiac Arrhythmia, New Left Bundle Branch Block, Pathological Q Wave, Cardiac Arrhythmia or New Left Bundle Branch Block	Short Name: PoP_EKGChange
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: CD
			Precision:
			Selection Type: Multiple
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User

Parent/Child Validation	
Element: 13616	12 Lead Electrocardiogram Performed
Operator: Equal	
Value: Yes	

12 Lead Electrocardiogram Findings - 1.3.6.1.4.1.19376.1.4.1.6.5.535

Selection	Definition	Source	Code	Code System Name
Cardiac Arrhythmia	The patient has a new onset of an atrial or ventricular arrhythmia requiring medication or other therapy. This includes brady or tachy arrhythmias.		698247007	SNOMED CT
No Significant Changes			112000001391	ACC NCDR
Pathological Q Wave			164918000	SNOMED CT
New Left Bundle Branch Block			100014019	ACC NCDR



Section: Post-Procedure Creatinine

Parent: Post-Procedure Clinical Data

Element: 10060		Technical Specification
Creatinine		
Coding Instruction: Indicate the creatinine (Cr) level mg/dL.		Code: 2160-0
Target Value: The last value on discharge		Code System Name: LOINC
Supporting Definition: Creatinine Creatinine or creatine anhydride, is a breakdown product of creatine phosphate in muscle. The loss of water molecule from creatine results in the formation of creatinine. It is transferred to the kidneys by blood plasma, whereupon it is eliminated by glomerular filtration and partial tubular excretion. Creatinine is usually produced at a fairly constant rate and measuring its serum level is a simple test. A rise in blood creatinine levels is observed only with marked damage to functioning nephrons; therefore this test is not suitable for detecting early kidney disease. Creatine and creatinine are metabolized in the kidneys, muscle, liver and pancreas. Source: http://s.details.loinc.org/LOINC/2160-0.html?sections=Simple		Short Name: DCCreatinine Missing Data: Report Harvested: Yes (TAVR, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: PQ Precision: 4,2 Selection Type: Single Unit of Measure: mg/dL Default Value: Null Usual Range: 0.10 - 5.00 mg/dL Valid Range: 0.10 - 30.00 mg/dL Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TAVR Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: Tricuspid Valve Procedure ----- AND ----- Element: 10061 Creatinine Not Drawn Operator: Equal Value: No (or Not Answered)
Element: 10061		Technical Specification
Creatinine Not Drawn		
Coding Instruction: Indicate if a discharge creatinine level was not drawn.		Code: 2160-0
Target Value: The last value on discharge		Code System Name: LOINC
		Short Name: DCCreatinineND Missing Data: Report Harvested: Yes (TAVR, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TAVR Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: Tricuspid Valve Procedure



Section: Post-Procedure Highest Creatinine

Parent: Post-Procedure Clinical Data

Element: 13764 Creatinine		Technical Specification
Coding Instruction: Indicate the post-procedure creatinine level in mg/dL. If more than one level is available, code the peak level.		Code: 2160-0
Target Value: The highest value between end of current procedure and discharge		Code System Name: LOINC
Supporting Definition: Creatinine Creatinine or creatine anhydride, is a breakdown product of creatine phosphate in muscle. The loss of water molecule from creatine results in the formation of creatinine. It is transferred to the kidneys by blood plasma, whereupon it is eliminated by glomerular filtration and partial tubular excretion. Creatinine is usually produced at a fairly constant rate and measuring its serum level is a simple test. A rise in blood creatinine levels is observed only with marked damage to functioning nephrons; therefore this test is not suitable for detecting early kidney disease. Creatine and creatinine are metabolized in the kidneys, muscle, liver and pancreas. Source: http://s.details.loinc.org/LOINC/2160-0.html?sections=Simple		Short Name: PoProc_Creat Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVp) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: PQ Precision: 4,2 Selection Type: Single Unit of Measure: mg/dL Default Value: Null Usual Range: 0.10 - 9.00 mg/dL Valid Range: 0.10 - 30.00 mg/dL Data Source: User
		Parent/Child Validation
		Element: 14293 Highest Creatinine Not Drawn Operator: Equal Value: No (or Not Answered)

Element: 14293 Highest Creatinine Not Drawn		Technical Specification
Coding Instruction: Indicate if the highest creatinine level was not drawn.		Code: 2160-0
Target Value: N/A		Code System Name: LOINC
		Short Name: HighCrea_ND Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVp) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

Element: 13592 Echocardiogram Performed		Technical Specification
Coding Instruction: Indicate the type of echo performed prior to discharge.		Code: 40701008
Target Value: Any occurrence between end of current procedure and discharge		Code System Name: SNOMED CT
		Short Name: POpTTEch
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13645 Echocardiogram Not Performed
		Operator: Equal
		Value: No (or Not Answered)

Echocardiogram Type - 1.3.6.1.4.1.19376.1.4.1.6.5.526

Selection	Definition	Source	Code	Code System Name
Transesophageal Echocardiogram (TEE)			105376000	SNOMED CT
Transthoracic Echo (TTE)			433236007	SNOMED CT

Element: 13645 Echocardiogram Not Performed		Technical Specification
Coding Instruction: Indicate if an echocardiogram was not performed.		Code: 40701008
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: EchoND
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

Element: 13493		Echocardiogram Date	Technical Specification
Coding Instruction:		Indicate the date the echocardiogram was performed.	Code: 40701008
Target Value:		Any occurrence between end of current procedure and discharge	Code System: SNOMED CT
			Name: POPTTEchDate
			Short Name: POPTTEchDate
			Missing Data: Report
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: DT
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
Element: 13592		Echocardiogram Performed	
Operator:		Equal	
Value:		Transesophageal Echocardiogram (TEE)	
Element: 13592		Echocardiogram Performed	
Operator:		Equal	
Value:		Transthoracic Echo (TTE)	
			Technical Specification
Element: 13495		Aortic Valve Area	Code: 112000001280
Coding Instruction:		Indicate the smallest aortic valve area (in cm2).	Code System: ACC NCDR
Target Value:		The lowest value between end of current procedure and discharge	Name: PP_AVArea
			Short Name: PP_AVArea
			Missing Data: Report
			Harvested: Yes (TAVR)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 3,2
			Selection Type: Single
			Unit of Measure: cm2
			Default Value: Null
			Usual Range: 0.20 - 4.00 cm2
			Valid Range: 0.05 - 5.00 cm2
			Data Source: User
			Parent/Child Validation
Element: 13592		Echocardiogram Performed	
Operator:		Equal	
Value:		Transthoracic Echo (TTE)	
Element: 13592		Echocardiogram Performed	
Operator:		Equal	
Value:		Transesophageal Echocardiogram (TEE)	
----- AND -----			
Element: 14273		Transcatheter Valve Therapy Procedure Type	
Operator:		Equal	
Value:		TAVR	



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

Element: 13675 Aortic Valve Mean Gradient

Coding Instruction: Indicate the mean gradient (in mm Hg) across the aortic valve.

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

Technical Specification

Code: 112000001398

Code System Name: ACC NCDR

Short Name: PP_AVMeanGradient

Missing Data: Report

Harvested: Yes (BDS, TAVR, TTVP)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: PQ

Precision: 3,0

Selection Type: Single

Unit of Measure: mm[Hg]

Default Value: Null

Usual Range: 5 - 50 mm[Hg]

Valid Range: 0 - 200 mm[Hg]

Data Source: User

Parent/Child Validation

Element: 13592 Echocardiogram Performed

Operator: Equal

Value: Transthoracic Echo (TTE)

Element: 13592 Echocardiogram Performed

Operator: Equal

Value: Transesophageal Echocardiogram (TEE)

----- AND -----

Element: 14273 Transcatheter Valve Therapy

Procedure Type

Operator: Equal

Value: TAVR

Element: 14273 Transcatheter Valve Therapy

Procedure Type

Operator: Equal

Value: Tricuspid Valve Procedure



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

Element: 13526 Aortic Valve Regurgitation		Technical Specification
Coding Instruction: Indicate the severity of aortic valve regurgitation. If mild-moderate is documented, code as mild. If moderate-severe is documented, code as moderate.		Code: 60234000 Code System Name: SNOMED CT Short Name: PP_AR Missing Data: Report Harvested: Yes (BDS, TAVR, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: CD Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Target Value: The last value between end of current procedure and next procedure or discharge		Parent/Child Validation
		Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: TAVR Element: 14273 Transcatheter Valve Therapy Procedure Type Operator: Equal Value: Tricuspid Valve Procedure ----- AND ----- Element: 13592 Echocardiogram Performed Operator: Equal Value: Transthoracic Echo (TTE) Element: 13592 Echocardiogram Performed Operator: Equal Value: Transesophageal Echocardiogram (TEE)

Valve Regurgitation Severity - 1.3.6.1.4.1.19376.1.4.1.6.5.767

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Trace/Trivial			112000001911	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

Element: 13494 Mitral Regurgitation		Technical Specification
Coding Instruction: Indicate the severity of mitral valve regurgitation. If mild-moderate is documented, code as mild. Target Value: The last value between end of current procedure and next procedure or discharge		Code: 48724000 Code System Name: SNOMED CT Short Name: PP_MR Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: CD Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
		Parent/Child Validation
		Element: 13592 Echocardiogram Performed Operator: Equal Value: Transthoracic Echo (TTE) Element: 13592 Echocardiogram Performed Operator: Equal Value: Transesophageal Echocardiogram (TEE)

Regurgitation Severity - 1.3.6.1.4.1.19376.1.4.1.6.5.728

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Trace/Trivial			112000001911	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Moderate-Severe			1000142345	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

Element: 13677		Tricuspid Valve Regurgitation	Technical Specification	
Coding Instruction:		Indicate the severity of tricuspid valve regurgitation.	Code:	111287006
		If mild-moderate is documented, code as mild.	Code System Name:	SNOMED CT
		If moderate-severe is documented, code as moderate.	Short Name:	PP_TR
			Missing Data:	Report
			Harvested:	Yes (BDS, TAVR, TMVR, TTVP)
			Is Identifier:	No
			Is Base Element:	Yes
			Is Followup Element:	No
			Data Type:	CD
			Precision:	
			Selection Type:	Single
			Unit of Measure:	
			Default Value:	Null
			Usual Range:	
			Valid Range:	
			Data Source:	User
			Parent/Child Validation	
			Element:	14273 Transcatheter Valve Therapy Procedure Type
			Operator:	Equal
			Value:	Tricuspid Valve Procedure
			Element:	14273 Transcatheter Valve Therapy Procedure Type
			Operator:	Equal
			Value:	TAVR
			Element:	14273 Transcatheter Valve Therapy Procedure Type
			Operator:	Equal
			Value:	TMVR
			----- AND -----	
			Element:	13592 Echocardiogram Performed
			Operator:	Equal
			Value:	Transthoracic Echo (TTE)
			Element:	13592 Echocardiogram Performed
			Operator:	Equal
			Value:	Transesophageal Echocardiogram (TEE)

Valve Regurgitation Severity - 1.3.6.1.4.1.19376.1.4.1.6.5.767

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Trace/Trivial			112000001911	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

Element: 13779		Effective Regurgitant Orifice Area	Technical Specification
Coding Instruction:		Indicate the effective regurgitant orifice area (EROA), in cm2.	Code: 112000001437
Target Value:		The highest value between end of current procedure and next procedure or discharge	Code System Name: ACC NCDR
			Short Name: PP_MV_EOA
			Missing Data: Report
			Harvested: Yes (TMVR, TMVrpr)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 2,1
			Selection Type: Single
			Unit of Measure: cm2
			Default Value: Null
			Usual Range: 0.1 - 5.0 cm2
			Valid Range: 0.1 - 5.0 cm2
			Data Source: User
			Parent/Child Validation
Element: 13592		Echocardiogram Performed	
Operator:		Equal	
		Value: Transthoracic Echo (TTE)	
Element: 13592		Echocardiogram Performed	
Operator:		Equal	
		Value: Transesophageal Echocardiogram (TEE)	
----- AND -----			
Element: 14273		Transcatheter Valve Therapy Procedure Type	
Operator:		Equal	
		Value: TMVR	
Element: 14273		Transcatheter Valve Therapy Procedure Type	
Operator:		Equal	
		Value: TMVr	

Element: 13769		Effective Regurgitant Orifice Area Method of Assessment	Technical Specification
Coding Instruction:		Indicate the method used to assess the effective regurgitant orifice area. If multiple methods are available, code the 3D planimetry method first, then PISA.	Code: 112000001437
Target Value:		Any occurrence between end of current procedure and discharge	Code System Name: ACC NCDR
			Short Name: PP_MV_EOA_MOA
			Missing Data: Report
			Harvested: Yes (TMVR, TMVrpr)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: CD
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
Element: 13779		Effective Regurgitant Orifice Area	
Operator:			
		Value: Any Value	

Effective Regurgitant Orifice Area Method of Assessment - 1.3.6.1.4.1.19376.1.4.1.6.5.547

Selection	Definition	Source	Code	Code System Name
3D Planimetry			112000001438	ACC NCDR
Proximal Isovelocity Surface Area			112000001439	ACC NCDR
Quantitative Doppler			112000001440	ACC NCDR
Other			100000351	ACC NCDR



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

Element: 13770		Technical Specification
Mitral Valve Mean Gradient		Code: 112000001191
Coding Instruction:	Indicate the mean gradient (in mm Hg) across the mitral valve.	Code System Name: ACC NCDR
Target Value:	The highest value between end of current procedure and discharge	Short Name: PP_MVMeanGradient
Supporting Definition:	Mitral Valve Mean Gradient	Missing Data: Report
	The average gradient across the mitral valve occurring during the entire systole.	Harvested: Yes (BDS, TMVR, TMVrpr)
	Source: Baumgartner, H. et. al (2009). Echocardiographic assessment of valve stenosis: EAE/ASE	Is Identifier: No
	recommendations for clinical practice.	Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mm[Hg]
		Default Value: Null
		Usual Range: 5 - 50 mm[Hg]
		Valid Range: 0 - 150 mm[Hg]
		Data Source: User
Parent/Child Validation		
Element: 13592	Echocardiogram Performed	
Operator:	Equal	
Value:	Transthoracic Echo (TTE)	
Element: 13592	Echocardiogram Performed	
Operator:	Equal	
Value:	Transesophageal Echocardiogram (TEE)	
----- AND -----		
Element: 14273	Transcatheter Valve Therapy Procedure Type	
Operator:	Equal	
Value:	TMVR	
Element: 14273	Transcatheter Valve Therapy Procedure Type	
Operator:	Equal	
Value:	TMVr	



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

Element: 13771		Technical Specification
Mitral Valve Area		
Coding Instruction: Indicate the smallest mitral valve area in centimeters squared.		Code: 251012002
Target Value: The lowest value between end of current procedure and discharge		Code System Name: SNOMED CT
Supporting Definition: Mitral Valve Area		Short Name: PP_MVArea
Measurement of mitral valve area.		Missing Data: Report
Source:		Harvested: Yes (TMVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 4,2
		Selection Type: Single
		Unit of Measure: cm2
		Default Value: Null
		Usual Range: 3.00 - 6.00 cm2
		Valid Range: 0.05 - 12.00 cm2
		Data Source: User
		Parent/Child Validation
		Element: 13592 Echocardiogram Performed
		Operator: Equal
		Value: Transthoracic Echo (TTE)
		Element: 13592 Echocardiogram Performed
		Operator: Equal
		Value: Transesophageal Echocardiogram (TEE)
		----- AND -----
		Element: 14273 Transcatheter Valve Therapy
		Procedure Type
		Operator: Equal
		Value: TMVR

Element: 13772		Technical Specification
Left Ventricular Outflow Tract Peak Velocity		
Coding Instruction: Indicate the left ventricular outflow tract peak velocity in m/sec.		Code: 112000002047
Target Value: The highest value between end of current procedure and discharge		Code System Name: ACC NCDR
		Short Name: PP_LVOT
		Missing Data: Report
		Harvested: Yes (BDS, TMVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: PQ
		Precision: 3,1
		Selection Type: Single
		Unit of Measure: m/sec
		Default Value: Null
		Usual Range: 0.5 - 5.0 m/sec
		Valid Range: 0.1 - 10.0 m/sec
		Data Source: User
		Parent/Child Validation
		Element: 13592 Echocardiogram Performed
		Operator: Equal
		Value: Transthoracic Echo (TTE)
		Element: 13592 Echocardiogram Performed
		Operator: Equal
		Value: Transesophageal Echocardiogram (TEE)
		----- AND -----
		Element: 14273 Transcatheter Valve Therapy
		Procedure Type
		Operator: Equal
		Value: TMVR



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

Element: 13774 Systolic Anterior Motion Present

Coding Instruction: Indicate if systolic anterior motion of the mitral valve was present.

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

Technical Specification

Code: 112000001481

Code System Name: ACC NCDR

Short Name: PP_SAM

Missing Data: Report

Harvested: Yes (TMVR)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13592 Echocardiogram Performed

Operator: Equal

Value: Transthoracic Echo (TTE)

Element: 13592 Echocardiogram Performed

Operator: Equal

Value: Transesophageal Echocardiogram (TEE)

----- AND -----

Element: 14273 Transcatheter Valve Therapy

Procedure Type

Operator: Equal

Value: TMVR



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

Element: 14507		Tricuspid Valve Diastolic Gradient	Technical Specification
Coding Instruction:		Indicate the post-procedure tricuspid valve diastolic gradient in mm Hg. This can also be called the TV inflow gradient.	Code: 112000001512
Target Value:		The highest value between end of current procedure and next procedure or discharge	Code System Name: ACC NCDR
			Short Name: PP_TVDGrad
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 2,0
			Selection Type: Single
			Unit of Measure: mm[Hg]
			Default Value: Null
			Usual Range: 1 - 15 mm[Hg]
			Valid Range: 1 - 50 mm[Hg]
			Data Source: User
			Parent/Child Validation
Element: 13592		Echocardiogram Performed	
Operator: Equal			
Value: Transthoracic Echo (TTE)			
Element: 13592		Echocardiogram Performed	
Operator: Equal			
Value: Transesophageal Echocardiogram (TEE)			
----- AND -----			
Element: 14273		Transcatheter Valve Therapy Procedure Type	
Operator: Equal			
Value: Tricuspid Valve Procedure			
----- AND -----			
Element: 14508		Tricuspid Valve Diastolic Gradient Not Documented	
Operator: Equal			
Value: No (or Not Answered)			



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

Element: 14508		Tricuspid Valve Diastolic Gradient Not Documented	Technical Specification
Coding Instruction:		Indicate if the tricuspid valve diastolic gradient was not documented post-procedure.	Code: 112000001512
Target Value:		N/A	Code System: ACC NCDR
			Name: PP_TVGradND
			Short Name: PP_TVGradND
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure
			----- AND -----
			Element: 13592 Echocardiogram Performed
			Operator: Equal
			Value: Transthoracic Echo (TTE)
			Element: 13592 Echocardiogram Performed
			Operator: Equal
			Value: Transesophageal Echocardiogram (TEE)



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

Element: 14294 Tricuspid Valve Annulus Size

Coding Instruction: Indicate the tricuspid valve annulus size in mm. Documentation using end-diastolic, 4 chamber view is preferred.

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

Technical Specification

Code: 112000001513

Code System Name: ACC NCDR

Short Name: PP_TVAnnulus

Missing Data: Report

Harvested: Yes (TTVP)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: PQ

Precision: 2,0

Selection Type: Single

Unit of Measure: mm

Default Value: Null

Usual Range: 15 - 60 mm

Valid Range: 1 - 80 mm

Data Source: User

Parent/Child Validation

Element: 13592 Echocardiogram Performed

Operator: Equal

Value: Transthoracic Echo (TTE)

Element: 13592 Echocardiogram Performed

Operator: Equal

Value: Transesophageal Echocardiogram (TEE)

----- AND -----

Element: 14273 Transcatheter Valve Therapy

Procedure Type

Operator: Equal

Value: Tricuspid Valve Procedure

----- AND -----

Element: 14495 Tricuspid Valve Annulus Size Not

Documented

Operator: Equal

Value: No (or Not Answered)



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

Element: 14495 Tricuspid Valve Annulus Size Not Documented

Coding Instruction: Indicate if the tricuspid valve annulus size was not documented.

Target Value: N/A

Technical Specification

Code: 112000001513

Code System Name: ACC NCDR

Short Name: PP_TVAnnulusND

Missing Data: Report

Harvested: Yes (TTVP)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13592 Echocardiogram Performed

Operator: Equal

Value: Transthoracic Echo (TTE)

Element: 13592 Echocardiogram Performed

Operator: Equal

Value: Transesophageal Echocardiogram (TEE)

----- AND -----

Element: 14273 Transcatheter Valve Therapy

Procedure Type

Operator: Equal

Value: Tricuspid Valve Procedure



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

Element: 14295		End Diastolic Mid Right Ventricle Diameter	Technical Specification
		Coding Instruction: Indicate the end-diastolic mid right ventricular (RV) diameter, using the 4 chamber view (in cm).	Code: 112000001514
		Target Value: Any occurrence between end of current procedure and discharge	Code System Name: ACC NCDR
			Short Name: PP_MidRVDia
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 2,1
			Selection Type: Single
			Unit of Measure: cm
			Default Value: Null
			Usual Range: 1.0 - 7.0 cm
			Valid Range: 0.1 - 9.9 cm
			Data Source: User
			Parent/Child Validation
			Element: 13592 Echocardiogram Performed
			Operator: Equal
			Value: Transthoracic Echo (TTE)
			Element: 13592 Echocardiogram Performed
			Operator: Equal
			Value: Transesophageal Echocardiogram (TEE)
			----- AND -----
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure
			----- AND -----
			Element: 14496 End Diastolic Mid Right Ventricle Diameter Not Documented
			Operator: Equal
			Value: No (or Not Answered)



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

Element: 14496		End Diastolic Mid Right Ventricle Diameter Not Documented	Technical Specification
Coding Instruction:		Indicate if the end-diastolic mid right ventricular (RV) diameter was not documented.	Code: 112000001514
Target Value:		N/A	Code System: ACC NCDR
			Name: PP_MidRVDiaND
			Short Name: PP_MidRVDiaND
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 13592 Echocardiogram Performed
			Operator: Equal
			Value: Transthoracic Echo (TTE)
			Element: 13592 Echocardiogram Performed
			Operator: Equal
			Value: Transesophageal Echocardiogram (TEE)
			----- AND -----
			Element: 14273 Transcatheter Valve Therapy
			Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

Element: 14296		End Diastolic Basal Right Ventricle Diameter	Technical Specification
Coding Instruction:		Indicate the end-diastolic basal right ventricular (RV) diameter, using the 4 chamber view (in cm).	Code: 112000001515
Target Value:		Any occurrence between end of current procedure and discharge	Code System Name: ACC NCDR
			Short Name: PP_BasalRVDia
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: PQ
			Precision: 2,1
			Selection Type: Single
			Unit of Measure: cm
			Default Value: Null
			Usual Range: 1.0 - 7.0 cm
			Valid Range: 0.1 - 9.9 cm
			Data Source: User
			Parent/Child Validation
Element: 13592		Echocardiogram Performed	
Operator: Equal		Value: Transthoracic Echo (TTE)	
Element: 13592		Echocardiogram Performed	
Operator: Equal		Value: Transesophageal Echocardiogram (TEE)	
----- AND -----			
Element: 14273		Transcatheter Valve Therapy Procedure Type	
Operator: Equal		Value: Tricuspid Valve Procedure	
----- AND -----			
Element: 14497		End Diastolic Basal Right Ventricle Diameter Not Documented	
Operator: Equal		Value: No (or Not Answered)	



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

Element: 14497		End Diastolic Basal Right Ventricle Diameter Not Documented	Technical Specification
Coding Instruction:		Indicate if the end diastolic basal right ventricular (RV) diameter was not documented.	Code: 112000001515
Target Value:		N/A	Code System: ACC NCDR
			Name: PP_BasalRVDiaND
			Short Name: PP_BasalRVDiaND
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
Element: 13592		Echocardiogram Performed	
Operator: Equal			
Value: Transthoracic Echo (TTE)			
Element: 13592		Echocardiogram Performed	
Operator: Equal			
Value: Transesophageal Echocardiogram (TEE)			
----- AND -----			
Element: 14273		Transcatheter Valve Therapy Procedure Type	
Operator: Equal			
Value: Tricuspid Valve Procedure			



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

Element: 14297		Right Ventricular Systolic Pressure	Technical Specification
Coding Instruction:		Indicate the right ventricular systolic pressure in mm Hg recorded post procedure. Note: If more than one RVSP documented, code the highest value.	Code: 276772001
Target Value:		The highest value between end of current procedure and next procedure or discharge	Code System Name: SNOMED CT
Supporting Definition:		RV Systolic Pressure The maximum pressure exerted into the systemic arterial circulation during the contraction of the right ventricle of the heart Source: NCI EVS	Short Name: PP_RVSP Missing Data: Report Harvested: Yes (TTVP) Is Identifier: No Is Base Element: Yes Is Followup Element: No Data Type: PQ Precision: 3,0 Selection Type: Single Unit of Measure: mm[Hg] Default Value: Null Usual Range: 15 - 30 mm[Hg] Valid Range: 1 - 200 mm[Hg] Data Source: User
Parent/Child Validation			
Element: 13592		Echocardiogram Performed	
Operator: Equal		Value: Transthoracic Echo (TTE)	
Element: 13592		Echocardiogram Performed	
Operator: Equal		Value: Transesophageal Echocardiogram (TEE)	
----- AND -----			
Element: 14273		Transcatheter Valve Therapy Procedure Type	
Operator: Equal		Value: Tricuspid Valve Procedure	
----- AND -----			
Element: 14498		Right Ventricular Systolic Pressure Not Documented	
Operator: Equal		Value: No (or Not Answered)	



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

Element: 14498		Right Ventricular Systolic Pressure Not Documented	Technical Specification
Coding Instruction:		Indicate if the right ventricular systolic pressure was not documented.	Code: 276772001
Target Value:		N/A	Code System Name: SNOMED CT
Supporting Definition:		RV Systolic Pressure	Short Name: PP_RVSYSD
		The maximum pressure exerted into the systemic arterial circulation during the contraction of the right ventricle of the heart	Missing Data: Report
		Source: NCI EVS	Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 13592 Echocardiogram Performed
			Operator: Equal
			Value: Transthoracic Echo (TTE)
			Element: 13592 Echocardiogram Performed
			Operator: Equal
			Value: Transesophageal Echocardiogram (TEE)
			----- AND -----
			Element: 14273 Transcatheter Valve Therapy
			Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure



Section: Post-Procedure AV Regurgitation

Parent: Post-Procedure Echocardiogram Findings

Element: 14503 Paravalvular Aortic Regurgitation

Coding Instruction: Indicate the severity of paravalvular aortic valve regurgitation.

Note: If trace/trivial is documented, code "none".

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

Technical Specification

Code: 112000001428

Code System Name: ACC NCDR

Short Name: PP_ParaAR

Missing Data: Report

Harvested: Yes (BDS, TAVR)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: CD

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13526 Aortic Valve Regurgitation

Operator: Equal

Value: Mild

Element: 13526 Aortic Valve Regurgitation

Operator: Equal

Value: Moderate

Element: 13526 Aortic Valve Regurgitation

Operator: Equal

Value: Severe

Element: 13526 Aortic Valve Regurgitation

Operator: Equal

Value: Trace/Trivial

----- AND -----

Element: 14524 Paravalvular Aortic Regurgitation
Not Documented

Operator: Equal

Value: No (or Not Answered)

----- AND -----

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TAVR

Valve Regurgitation Severity 4 - 1.3.6.1.4.1.19376.1.4.1.6.5.768

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Post-Procedure AV Regurgitation Parent: Post-Procedure Echocardiogram Findings

Element: 14524 Paravalvular Aortic Regurgitation Not Documented		Technical Specification
Coding Instruction: Indicate if the severity of paravalvular aortic valve regurgitation was not documented post-procedure.		Code: 112000001428
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: PP_ParaARND
		Missing Data: Report
		Harvested: Yes (BDS, TAVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13526 Aortic Valve Regurgitation
		Operator: Equal
		Value: Mild
		Element: 13526 Aortic Valve Regurgitation
		Operator: Equal
		Value: Moderate
		Element: 13526 Aortic Valve Regurgitation
		Operator: Equal
		Value: Severe
		Element: 13526 Aortic Valve Regurgitation
		Operator: Equal
		Value: Trace/Trivial
		----- AND -----
		Element: 14273 Transcatheter Valve Therapy Procedure Type
		Operator: Equal
		Value: TAVR



Section: Post-Procedure AV Regurgitation

Parent: Post-Procedure Echocardiogram Findings

Element: 14499 Central Aortic Regurgitation

Coding Instruction: Indicate the severity of central aortic valve regurgitation.

Note: If trace/trivial is documented, code "none".

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

Technical Specification

Code: 112000001433

Code System Name: ACC NCDR

Short Name: PP_CentralAR

Missing Data: Report

Harvested: Yes (TAVR)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: CD

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13526 Aortic Valve Regurgitation

Operator: Equal

Value: Mild

Element: 13526 Aortic Valve Regurgitation

Operator: Equal

Value: Moderate

Element: 13526 Aortic Valve Regurgitation

Operator: Equal

Value: Severe

Element: 13526 Aortic Valve Regurgitation

Operator: Equal

Value: Trace/Trivial

----- AND -----

Element: 14487 Central Aortic Regurgitation Not Documented

Operator: Equal

Value: No (or Not Answered)

----- AND -----

Element: 14273 Transcatheter Valve Therapy Procedure Type

Operator: Equal

Value: TAVR

Valve Regurgitation Severity 4 - 1.3.6.1.4.1.19376.1.4.1.6.5.768

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Post-Procedure AV Regurgitation

Parent: Post-Procedure Echocardiogram Findings

Element: 14487 Central Aortic Regurgitation Not Documented

Coding Instruction: Indicate if central aortic valve regurgitation was not documented.

Target Value: N/A

Technical Specification

Code: 112000001433

Code System Name: ACC NCDR

Short Name: PP_CentralARND

Missing Data: Report

Harvested: Yes (TAVR)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13526 Aortic Valve Regurgitation

Operator: Equal

Value: Mild

Element: 13526 Aortic Valve Regurgitation

Operator: Equal

Value: Moderate

Element: 13526 Aortic Valve Regurgitation

Operator: Equal

Value: Severe

Element: 13526 Aortic Valve Regurgitation

Operator: Equal

Value: Trace/Trivial

----- AND -----

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TAVR



Section: Post-Procedure MV Regurgitation

Parent: Post-Procedure Echocardiogram Findings

Element: 13766 Paravalvular Mitral Regurgitation		Technical Specification
Coding Instruction: Indicate the severity of paravalvular mitral valve regurgitation.		Code: 112000001428
Note: If trace/trivial is documented, code "none".		Code System Name: ACC NCDR
Target Value: The highest value between end of current procedure and discharge		Short Name: PP_ParamR
		Missing Data: Report
		Harvested: Yes (BDS, TMVR)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13494	Mitral Regurgitation	
Operator: Equal		
Value: Trace/Trivial		
Element: 13494	Mitral Regurgitation	
Operator: Equal		
Value: Mild		
Element: 13494	Mitral Regurgitation	
Operator: Equal		
Value: Moderate		
Element: 13494	Mitral Regurgitation	
Operator: Equal		
Value: Severe		
Element: 13494	Mitral Regurgitation	
Operator: Equal		
Value: Moderate-Severe		
----- AND -----		
Element: 14273	Transcatheter Valve Therapy Procedure Type	
Operator: Equal		
Value: TMVR		
----- AND -----		
Element: 14525	Paravalvular Mitral Regurgitation Not Documented	
Operator: Equal		
Value: No (or Not Answered)		

Valve Regurgitation Severity 4 - 1.3.6.1.4.1.19376.1.4.1.6.5.768

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Post-Procedure MV Regurgitation

Parent: Post-Procedure Echocardiogram Findings

Element: 14525 Paravalvular Mitral Regurgitation Not Documented

Coding Instruction: Indicate if the severity of paravalvular mitral regurgitation was not documented.

Target Value: N/A

Technical Specification

Code: 112000001428

Code System Name: ACC NCDR

Short Name: PP_ParaMRND

Missing Data: Report

Harvested: Yes (BDS, TMVR)

Is Identifier: No

Is Base Element: Yes

Is Followup

Element: No

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVR

AND

Element: 13494 Mitral Regurgitation

Operator: Equal

Value: Mild

Element: 13494 Mitral Regurgitation

Operator: Equal

Value: Moderate

Element: 13494 Mitral Regurgitation

Operator: Equal

Value: Severe

Element: 13494 Mitral Regurgitation

Operator: Equal

Value: Trace/Trivial

Element: 13494 Mitral Regurgitation

Operator: Equal

Value: Moderate-Severe



Section: Post-Procedure MV Regurgitation

Parent: Post-Procedure Echocardiogram Findings

Element: 13767 Central Mitral Regurgitation

Coding Instruction: Indicate the severity of central mitral valve regurgitation.

Note: If trace/trivial is documented, code "none".

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

Technical Specification

Code: 112000001433

Code System Name: ACC NCDR

Short Name: PP_CentralMR

Missing Data: Report

Harvested: Yes (BDS, TMVR)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: CD

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 14273 Transcatheter Valve Therapy Procedure Type

Operator: Equal

Value: TMVR

AND

Element: 14488 Central Mitral Regurgitation Not Documented

Operator: Equal

Value: No (or Not Answered)

AND

Element: 13494 Mitral Regurgitation

Operator: Equal

Value: Mild

Element: 13494 Mitral Regurgitation

Operator: Equal

Value: Moderate

Element: 13494 Mitral Regurgitation

Operator: Equal

Value: Severe

Element: 13494 Mitral Regurgitation

Operator: Equal

Value: Trace/Trivial

Element: 13494 Mitral Regurgitation

Operator: Equal

Value: Moderate-Severe

Valve Regurgitation Severity 4 - 1.3.6.1.4.1.19376.1.4.1.6.5.768

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Post-Procedure MV Regurgitation

Parent: Post-Procedure Echocardiogram Findings

Element: 14488 Central Mitral Regurgitation Not Documented

Coding Instruction: Indicate if central mitral regurgitation was not documented.

Target Value: N/A

Technical Specification

Code: 112000001433

Code System Name: ACC NCDR

Short Name: PP_CentralMRND

Missing Data: Report

Harvested: Yes (BDS, TMVR)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 14273 Transcatheter Valve Therapy
Procedure Type

Operator: Equal

Value: TMVR

AND

Element: 13494 Mitral Regurgitation

Operator: Equal

Value: Mild

Element: 13494 Mitral Regurgitation

Operator: Equal

Value: Moderate

Element: 13494 Mitral Regurgitation

Operator: Equal

Value: Severe

Element: 13494 Mitral Regurgitation

Operator: Equal

Value: Trace/Trivial

Element: 13494 Mitral Regurgitation

Operator: Equal

Value: Moderate-Severe



Section: Post-Procedure TV Regurgitation

Parent: Post-Procedure Echocardiogram Findings

Element: 14505 Paravalvular Tricuspid Regurgitation

Coding Instruction: Indicate the severity of paravalvular tricuspid valve regurgitation.

Note: If trace/trivial is documented, code "none".

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

Technical Specification

Code: 112000001428

Code System Name: ACC NCDR

Short Name: PP_ParaTR

Missing Data: Report

Harvested: Yes (TTVP)

Is Identifier: No

Is Base Element: Yes

Is Followup Element: No

Data Type: CD

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13677 Tricuspid Valve Regurgitation

Operator: Equal

Value: Mild

Element: 13677 Tricuspid Valve Regurgitation

Operator: Equal

Value: Moderate

Element: 13677 Tricuspid Valve Regurgitation

Operator: Equal

Value: Severe

Element: 13677 Tricuspid Valve Regurgitation

Operator: Equal

Value: Trace/Trivial

----- AND -----

Element: 14273 Transcatheter Valve Therapy Procedure Type

Operator: Equal

Value: Tricuspid Valve Procedure

----- AND -----

Element: 14526 Paravalvular Tricuspid Regurgitation Not Documented

Operator: Equal

Value: No (or Not Answered)

Valve Regurgitation Severity 4 - 1.3.6.1.4.1.19376.1.4.1.6.5.768

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Post-Procedure TV Regurgitation

Parent: Post-Procedure Echocardiogram Findings

Element: 14526		Paravalvular Tricuspid Regurgitation Not Documented	Technical Specification
Coding Instruction:		Indicate if the severity of paravalvular tricuspid regurgitation was not documented post-procedure	Code: 112000001428
Target Value:		N/A	Code System: ACC NCDR
			Name: PP_ParaTRND
			Short Name: PP_ParaTRND
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 14273 Transcatheter Valve Therapy Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure
			----- AND -----
			Element: 13677 Tricuspid Valve Regurgitation
			Operator: Equal
			Value: Mild
			Element: 13677 Tricuspid Valve Regurgitation
			Operator: Equal
			Value: Moderate
			Element: 13677 Tricuspid Valve Regurgitation
			Operator: Equal
			Value: Severe
			Element: 13677 Tricuspid Valve Regurgitation
			Operator: Equal
			Value: Trace/Trivial



Section: Post-Procedure TV Regurgitation

Parent: Post-Procedure Echocardiogram Findings

Element: 14501 Central Tricuspid Regurgitation		Technical Specification
Coding Instruction: Indicate the severity of central tricuspid valve regurgitation.		Code: 111287006
Note: If trace/trivial is documented, code "none".		Code System Name: SNOMED CT
Target Value: The highest value between end of current procedure and discharge		Short Name: PP_CentralTR
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13677	Tricuspid Valve Regurgitation	
Operator: Equal		
Value: Mild		
Element: 13677	Tricuspid Valve Regurgitation	
Operator: Equal		
Value: Moderate		
Element: 13677	Tricuspid Valve Regurgitation	
Operator: Equal		
Value: Severe		
Element: 13677	Tricuspid Valve Regurgitation	
Operator: Equal		
Value: Trace/Trivial		
----- AND -----		
Element: 14273	Transcatheter Valve Therapy Procedure Type	
Operator: Equal		
Value: Tricuspid Valve Procedure		
----- AND -----		
Element: 14489	Central Tricuspid Regurgitation Not Documented	
Operator: Equal		
Value: No (or Not Answered)		

Valve Regurgitation Severity 4 - 1.3.6.1.4.1.19376.1.4.1.6.5.768

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Post-Procedure TV Regurgitation

Parent: Post-Procedure Echocardiogram Findings

Element: 14489		Central Tricuspid Regurgitation Not Documented	Technical Specification
Coding Instruction:		Indicate if central tricuspid valve regurgitation was not documented.	Code: 111287006
Target Value:		N/A	Code System: SNOMED CT
			Name: PP_CentralTRND
			Short Name: PP_CentralTRND
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
Element: 14273		Transcatheter Valve Therapy Procedure Type	Operator: Equal
			Value: Tricuspid Valve Procedure
			----- AND -----
Element: 13677		Tricuspid Valve Regurgitation	Operator: Equal
			Value: Mild
Element: 13677		Tricuspid Valve Regurgitation	Operator: Equal
			Value: Moderate
Element: 13677		Tricuspid Valve Regurgitation	Operator: Equal
			Value: Severe
Element: 13677		Tricuspid Valve Regurgitation	Operator: Equal
			Value: Trace/Trivial



Full Specifications Data Dictionary v3.0

STS/ACC
TVT Registry™

Section: Discharge

Parent: Root

Element: 10100	Discharge Date	Technical Specification
Coding Instruction: Indicate the date on which the patient was discharged from your facility.		Code: 1000142457
Target Value: The value on discharge		Code System Name: ACC NCDR
Vendor Instruction: Discharge Date (10100) must be Greater than or Equal to 01/01/2021		Short Name: DCDate
		Missing Data: Illegal
	Discharge Date (10100) and Arrival Date and Time (3001) must not overlap on multiple episodes	Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: DT
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 10070	Discharge Provider Last Name	Technical Specification
Coding Instruction: Indicate the last name of the discharge provider.		Code: 1000142453
	Note(s): If the name exceeds 50 characters, enter the first 50 characters only.	Code System Name: ACC NCDR
	The completion of this data element is voluntary and at the discretion of your facility. NCDR will use the data to provide reporting at the physician level, which may assist physicians with demonstrating value based care as well as support your facility's engagement in quality improvement efforts. If completed, NCDR will defer to your facility's determination of assigning Admitting, Attending, and Discharging Provider roles, as supported by the patient medical record.	Short Name: DCLName
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: LN
		Precision: 50
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 10071	Discharge Provider First Name	Technical Specification
Coding Instruction: Indicate the first name of the discharge provider.		Code: 1000142453
	Note(s): If the name exceeds 50 characters, enter the first 50 characters only.	Code System Name: ACC NCDR
	The completion of this data element is voluntary and at the discretion of your facility. NCDR will use the data to provide reporting at the physician level, which may assist physicians with demonstrating value based care as well as support your facility's engagement in quality improvement efforts. If completed, NCDR will defer to your facility's determination of assigning Admitting, Attending, and Discharging Provider roles, as supported by the patient medical record.	Short Name: DCFName
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: FN
		Precision: 50
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



Section: Discharge

Parent: Root

Element: 10072	Discharge Provider Middle Name	Technical Specification
Coding Instruction: Indicate the middle name of the discharge provider.		Code: 1000142453
Note(s): It is acceptable to specify the middle initial.		Code System Name: ACC NCDR
If there is no middle name given, leave field blank.		Short Name: DCMName
If there are multiple middle names, enter all of the middle names sequentially.		Missing Data: Report
If the name exceeds 50 characters, enter the first 50 letters only.		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
The completion of this data element is voluntary and at the discretion of your facility. NCDR will use the data to provide reporting at the physician level, which may assist physicians with demonstrating value based care as well as support your facility's engagement in quality improvement efforts. If completed, NCDR will defer to your facility's determination of assigning Admitting, Attending, and Discharging Provider roles, as supported by the patient medical record.		Is Identifier: No
Target Value: The value on discharge		Is Base Element: Yes
		Is Followup Element: No
		Data Type: MN
		Precision: 50
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 10073	Discharge Provider NPI	Technical Specification
Coding Instruction: Indicate the National Provider Identifier (NPI) of the provider that discharged the patient. NPI's, assigned by the Centers for Medicare and Medicaid Services (CMS), are used to uniquely identify physicians for Medicare billing purposes.		Code: 1000142453
Note(s): The completion of this data element is voluntary and at the discretion of your facility. NCDR will use the data to provide reporting at the physician level, which may assist physicians with demonstrating value based care as well as support your facility's engagement in quality improvement efforts. If completed, NCDR will defer to your facility's determination of assigning Admitting, Attending, and Discharging Provider roles, as supported by the patient medical record.		Code System Name: ACC NCDR
Target Value: The value on discharge		Short Name: DCNPI
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: NUM
		Precision: 10
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 10105	Discharge Status	Technical Specification
Coding Instruction: Indicate whether the patient was alive or deceased at discharge.		Code: 75527-2
Target Value: The value on discharge		Code System Name: LOINC
		Short Name: DCStatus
		Missing Data: Illegal
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Discharge Life Status - 1.3.6.1.4.1.19376.1.4.1.6.5.42

Selection	Definition	Source	Code	Code System Name
Alive			438949009	SNOMED CT
Deceased			20	HL7 Discharge disposition



Section: Discharge

Parent: Root

Element: 10116		Cardiac Rehabilitation Referral	Technical Specification	
Coding Instruction:		Indicate if the patient has been referred to an outpatient cardiac rehab program prior to hospital discharge. The referral may be to a traditional outpatient cardiac rehab program with face-to-face interactions and training sessions or may include other novel delivery options.	Code:	100014067
Target Value:		The value on discharge	Code System	ACC NCDR
Supporting Definition:		Cardiac Rehabilitation Referral 1. Documented communication between the healthcare provider and the patient to recommend an outpatient CR program AND 2A. Official referral order is sent to outpatient CR program OR 2B. Documentation of patient refusal to justify why patient information was not sent to the CR program Source: Source: Thomas, R.J., et al. 2018 ACC/AHA Clinical Performance and Quality Measures for Cardiac Rehabilitation: A Report of the American College of Cardiology/American Heart Association Task Force on Performance Measures. Journal of the American College of Cardiology, Vol 71, Issue 16, April 2018, pages 1814-1837	Name:	
			Short Name:	DC_CardRehab
			Missing Data:	Report
			Harvested:	Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier:	No
			Is Base Element:	Yes
			Is Followup Element:	No
			Data Type:	CD
			Precision:	
			Selection Type:	Single
			Unit of Measure:	
			Default Value:	Null
			Usual Range:	
			Valid Range:	
			Data Source:	User
Parent/Child Validation				
Element:		10105	Discharge Status	
Operator:		Equal		
Value:		Alive		

Cardiac Rehab - 1.3.6.1.4.1.19376.1.4.1.6.5.334

Selection	Definition	Source	Code	Code System Name
No - Reason Not Documented			100014064	ACC NCDR
No - Medical Reason Documented	Patient deemed by a medical provider to have a medically unstable, life-threatening condition or has other cognitive or physical impairments that preclude CR participation.	Thomas, R.J., et al. 2018 ACC/AHA Clinical Performance and Quality Measures for Cardiac Rehabilitation: A Report of the American College of Cardiology/American Heart Association Task Force on Performance Measures. Journal of the American College of Cardiology, Vol 71, Issue 16, April 2018, pages 1814-1837	100014066	ACC NCDR
No - Health Care System Reason Documented	Patient is discharged to a nursing care or long-term care facility, or patient lacks medical coverage for CR.	Thomas, R.J., et al. 2018 ACC/AHA Clinical Performance and Quality Measures for Cardiac Rehabilitation: A Report of the American College of Cardiology/American Heart Association Task Force on Performance Measures. Journal of the American College of Cardiology, Vol 71, Issue 16, April 2018, pages 1814-1837	100014065	ACC NCDR
No - Patient - Oriented Reason	No traditional CR program available to the patient, within 60 min [travel time] from the patient's home, or patient does not have access to an alternative model of CR delivery that meets all criteria for a CR program.	Thomas, R.J., et al. 2018 ACC/AHA Clinical Performance and Quality Measures for Cardiac Rehabilitation: A Report of the American College of Cardiology/American Heart Association Task Force on Performance Measures. Journal of the American College of Cardiology, Vol 71, Issue 16, April 2018, pages 1814-1837	112000000520	ACC NCDR
Yes			100013072	ACC NCDR



Section: Discharge

Parent: Root

Element: 10110 Discharge Location		Technical Specification
Coding Instruction: Indicate the location to which the patient was discharged.		Code: 75528-0
Target Value: The value on discharge		Code System Name: LOINC
		Short Name: DCLocation
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 10105 Discharge Status		
Operator: Equal		
Value: Alive		

Discharge Location - 1.3.6.1.4.1.19376.1.4.1.6.5.41

Selection	Definition	Source	Code	Code System Name
Home			01	HL7 Discharge disposition
Skilled Nursing Facility	Skilled nursing facilities (SNF) are typically sub-acute programs used for longer anticipated length of stay. Note: Sometimes SNFs may have acute rehabilitation beds within their facility. If the patient is discharged to a SNF for acute rehab (requiring a higher level of care), code "extended care/TCU/rehab".		03	HL7 Discharge disposition
Extended Care/TCU/Rehab	An extended care unit, transitional care unit or rehab unit typically provides a high level of intensive therapy as well as specialized nursing and physician care. This discharge setting may also be called subacute care or long term acute care (LTACH).		62	HL7 Discharge disposition
Other Acute Care Hospital			02	HL7 Discharge disposition
Left Against Medical Advice (AMA)	The patient was discharged or eloped against medical advice.		07	HL7 Discharge disposition
Other Discharge Location			100001249	ACC NCDR



Section: Discharge

Parent: Root

Element: 10115 Hospice Care		Technical Specification
Coding Instruction: Indicate if the patient was discharged to hospice care.		Code: 385763009
Target Value: The value on discharge		Code System Name: SNOMED CT
		Short Name: DCHospice
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 10105 Discharge Status
		Operator: Equal
		Value: Alive

Element: 10120 Death During the Procedure		Technical Specification
Coding Instruction: Indicate if the patient expired during the procedure.		Code: 100000923
Note(s): Make sure to only capture 'death during the procedure' in the procedure appropriate registry.		Code System Name: ACC NCDR
For example, if the patient had a CathPCI procedure and a TVT procedure in the same episode of care (hospitalization) but different cath lab visits and the death occurred during the TVT procedure, code 'Yes' only in the TVT Registry and not the CathPCI Registry. If the CathPCI procedure and TVT procedure occurred during the same cath lab visit then code 'Yes' in both registries.		Short Name: DeathProcedure
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 10105 Discharge Status
		Operator: Equal
		Value: Deceased



Section: Discharge

Parent: Root

Element: 10125 Cause of Death		Technical Specification
Coding Instruction: Indicate the primary cause of death, i.e. the first significant abnormal event which ultimately led to death.		Code: 184305005
Target Value: The value on time of death		Code System Name: SNOMED CT
		Short Name: DeathCause
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 10105 Discharge Status		
Operator: Equal		
Value: Deceased		

Cause of Death Clinical Finding - 1.3.6.1.4.1.19376.1.4.1.6.5.88

Selection	Definition	Source	Code	Code System Name
Acute myocardial infarction	Death by any cardiovascular mechanism (e.g., arrhythmia, sudden death, heart failure, stroke, pulmonary embolus, peripheral arterial disease) within 30 days after an acute myocardial infarction, related to the immediate consequences of the MI, such as progressive HF or recalcitrant arrhythmia. There may be other assessable (attributable) mechanisms of cardiovascular death during this time period, but for simplicity, if the cardiovascular death occurs <=30 days of an acute myocardial infarction, it will be considered a death due to myocardial infarction.		100000960	ACC NCDR
Sudden cardiac death	Death that occurs unexpectedly, and not within 30 days of an acute MI.		100000978	ACC NCDR
Heart failure	Death associated with clinically worsening symptoms and/or signs of heart failure.		100000964	ACC NCDR
Stroke	Death after a stroke that is either a direct consequence of the stroke or a complication of the stroke.		100000977	ACC NCDR
Cardiovascular procedure	Death caused by the immediate complication(s) of a cardiovascular procedure.		100000962	ACC NCDR
Cardiovascular hemorrhage	Death related to hemorrhage such as a non-stroke intracranial hemorrhage, non-procedural or non-traumatic vascular rupture (e.g., aortic aneurysm), or hemorrhage causing cardiac tamponade.		100000961	ACC NCDR
Other cardiovascular reason	Cardiovascular death not included in the above categories but with a specific, known cause (e.g., pulmonary embolism, peripheral arterial disease).		100000972	ACC NCDR
Pulmonary	Non-cardiovascular death attributable to disease of the lungs (excludes malignancy).		100000975	ACC NCDR
Renal	Non-cardiovascular death attributable to renal failure.		100000976	ACC NCDR
Gastrointestinal	Non-cardiovascular death attributable to disease of the esophagus, stomach, or intestines (excludes malignancy).		100000963	ACC NCDR
Hepatobiliary	Non-cardiovascular death attributable to disease of the liver, gall bladder, or biliary ducts (exclude malignancy).		100000966	ACC NCDR
Pancreatic	Non-cardiovascular death attributable to disease of the pancreas (excludes malignancy).		100000974	ACC NCDR
Infection	Non-cardiovascular death attributable to an infectious disease.		100000967	ACC NCDR
Inflammatory/Immunologic	Non-cardiovascular death attributable to an inflammatory or immunologic disease process.		100000968	ACC NCDR
Hemorrhage	Non-cardiovascular death attributable to bleeding that is not considered cardiovascular hemorrhage or stroke per this classification.		100000965	ACC NCDR
Non-cardiovascular procedure	Death caused by the immediate complication(s) of a		100000971	ACC NCDR



Section: Discharge		Parent: Root	
or surgery	non-cardiovascular procedure or surgery.		
Trauma	Non-cardiovascular death attributable to trauma.	100000980	ACC NCDR
Suicide	Non-cardiovascular death attributable to suicide.	100000979	ACC NCDR
Neurological	Non-cardiovascular death attributable to disease of the nervous system (excludes malignancy).	100000970	ACC NCDR
Malignancy	Non-cardiovascular death attributable to malignancy.	100000969	ACC NCDR
Other non-cardiovascular reason	Non-cardiovascular death attributable to a cause other than those listed in this classification (specify organ system).	100000973	ACC NCDR

Element: 9275	Packed Red Blood Cell Transfusion	Technical Specification
Coding Instruction: Indicate if there was a transfusion(s) of packed red blood cells.		Code: 71493000
Target Value: Any occurrence between start of procedure and until next procedure or discharge		Code System Name: SNOMED CT
		Short Name: PostTransfusion
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 13670	Packed Red Blood Cell Units Transfused	Technical Specification
Coding Instruction: Indicate the total number of units transfused of packed red blood cells.		Code: 100014031
Target Value: The total value between start of first procedure until discharge		Code System Name: ACC NCDR
		Short Name: DC_RBCUnit
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: No
		Data Type: NUM
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
Element: 9275		Packed Red Blood Cell Transfusion
Operator: Equal		
Value: Yes		



Section: Discharge Medications

Parent: Discharge

Element: 10200		Discharge Medication Code	Technical Specification
Coding Instruction:		Indicate the assigned identification number associated with the medications the patient was prescribed upon discharge.	Code: 100013057
		Note(s): Discharge medications not required for patients who expired, discharged to "Other acute care hospital", "Left against medical advice (AMA)" or are receiving Hospice Care.	Code System Name: ACC NCDR
		The medication(s) collected in this field are controlled by the Medication Master file. This file is maintained by the NCDR and will be made available on the internet for downloading and importing/updating into your application. Each medication in the Medication Master file is assigned to a value set. The value set is used to separate procedural medications from medications prescribed at discharge. The separation of these medications is depicted on the data collection form.	Short Name: DC_MedID
			Missing Data: Report
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: No
			Data Type: CD
			Precision:
			Selection Type: Single (Dynamic List)
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 10110 Discharge Location
			Operator: Equal
			Value: Home
			Element: 10110 Discharge Location
			Operator: Equal
			Value: Extended Care/TCU/Rehab
			Element: 10110 Discharge Location
			Operator: Equal
			Value: Other Discharge Location
			Element: 10110 Discharge Location
			Operator: Equal
			Value: Skilled Nursing Facility
			----- AND -----
			Element: 10115 Hospice Care
			Operator: Equal
			Value: No
			----- AND -----
			Element: 10105 Discharge Status
			Operator: Equal
			Value: Alive

Discharge Medication - 1.3.6.1.4.1.19376.1.4.1.6.5.165

Selection	Definition	Source	Code	Code System Name
Angiotensin Converting Enzyme Inhibitor			41549009	SNOMED CT
Aldosterone Antagonist			372603003	SNOMED CT
Direct thrombin inhibitor			414010005	SNOMED CT
Warfarin			11289	RxNorm
Aspirin			1191	RxNorm
Angiotensin II Receptor Blocker			372913009	SNOMED CT
Beta Blocker			33252009	SNOMED CT
Diuretics Not Otherwise Specified			112000001417	ACC NCDR
Loop Diuretics			29051009	SNOMED CT
Thiazides			372747003	SNOMED CT
Direct Factor Xa Inhibitor			112000000696	ACC NCDR
P2Y12 Antagonist			112000001003	ACC NCDR



Section: Discharge Medications

Parent: Discharge

Element: 10205		Discharge Medication Prescribed	Technical Specification	
Coding Instruction:		Indicate if the medication was prescribed, not prescribed, or was not prescribed for either a medical or patient reason.	Code: 432102000	
			Code System Name: SNOMED CT	
			Short Name: DC_MedAdmin	
			Missing Data: Report	
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)	
			Is Identifier: No	
			Is Base Element: Yes	
			Is Followup Element: No	
			Data Type: CD	
			Precision:	
			Selection Type: Single	
			Unit of Measure:	
			Default Value: Null	
			Usual Range:	
			Valid Range:	
			Data Source: User	
			Parent/Child Validation	
			Element: 10200 Discharge Medication Code	
			Operator:	
			Value: Any Value	

Discharge Medication Administration - 1.3.6.1.4.1.19376.1.4.1.6.5.86

Selection	Definition	Source	Code	Code System Name
Yes - Prescribed			100001247	ACC NCDR
Not Prescribed - No Reason			100001048	ACC NCDR
Not Prescribed - Medical Reason			100001034	ACC NCDR
Not Prescribed - Patient Reason			100001071	ACC NCDR

Element: 14576		Loop Diuretic Dose	Technical Specification	
Coding Instruction:		Specify the total daily dose of the loop diuretic that was prescribed to the patient at discharge.	Code: 112000001975	
			Code System Name: ACC NCDR	
			Short Name: DischMed_LoopDiureticDose	
			Missing Data: Report	
			Harvested: Yes (TMVR, TMVrpr, TTVP)	
			Is Identifier: No	
			Is Base Element: Yes	
			Is Followup Element: No	
			Data Type: PQ	
			Precision: 3,0	
			Selection Type: Single	
			Unit of Measure: mg	
			Default Value: Null	
			Usual Range: 1 - 40 mg	
			Valid Range: 1 - 300 mg	
			Data Source: User	
			Parent/Child Validation	
			Element: 10200 Discharge Medication Code	
			Operator: Equal	
			Value: Loop Diuretics	
			----- AND -----	
			Element: 10205 Discharge Medication Prescribed	
			Operator: Equal	
			Value: Yes - Prescribed	



Section: Follow Up

Parent: Root

Element: 11000		Follow-Up Assessment Date	Technical Specification
Coding Instruction:		Indicate the date of the follow-up assessment was performed.	Code: 1000142364
Target Value:		The value on Follow-up	Code System Name: ACC NCDR
Vendor Instruction:		Follow-Up Assessment Date (11000) must be Greater than or Equal to 01/01/2021	Short Name: F_AssessmentDate
		Follow-Up Assessment Date (11000) must be Greater than or Equal to Follow-Up Reference Episode Arrival Date and Time (11002)	Missing Data: Illegal
		A Follow Up - combination of Follow-Up Assessment Date (11000) and Follow-Up Reference Procedure Start Date and Time (11001) - may only be entered/selected once	Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Follow-Up Assessment Date (11000) must be Greater than Follow-Up Reference Procedure Start Date and Time (11001)	Is Identifier: No
			Is Base Element: No
			Is Followup Element: Yes
			Data Type: DT
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User

Element: 10999		Follow-Up Unique Key	Technical Specification
Coding Instruction:		Indicate the unique key associated with each patient follow-up record as assigned by the EMR/EHR or your software application.	Code: 1000142426
Target Value:		N/A	Code System Name: ACC NCDR
			Short Name: FollowUpKey
			Missing Data: Illegal
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: Yes
			Is Base Element: No
			Is Followup Element: Yes
			Data Type: ST
			Precision: 50
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: Automatic

Element: 11001		Follow-Up Reference Procedure Start Date and Time	Technical Specification
Coding Instruction:		Indicate the reference procedure start date and time on the follow-up assessment date.	Code: 1000142372
Target Value:		The value on Follow-up	Code System Name: ACC NCDR
			Short Name: RefProcStartDateTime
			Missing Data: Illegal
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: No
			Is Followup Element: Yes
			Data Type: TS
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User



Section: Follow Up

Parent: Root

Element: 11002	Follow-Up Reference Episode Arrival Date and Time	Technical Specification
Coding Instruction:	Indicate the date and time of arrival for the episode of care that included the reference procedure.	Code: 1000142436
Target Value:	The value on Follow-up	Code System Name: ACC NCDR
		Short Name: RefArrivalDateTime
		Missing Data: Illegal
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: TS
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 13705	Transcatheter Valve Therapy Reference Procedure Type	Technical Specification
Coding Instruction:	Indicate the procedure type performed at the reference procedure start date/time.	Code: 112000001167
Target Value:	The value on Follow-up	Code System Name: ACC NCDR
Vendor Instruction:	When Transcatheter Valve Therapy Reference Procedure Type (13705) is Equal to (TMVr,TMVR,Tricuspid Valve Procedure) then Follow-Up Medications Code (11990) must be Equal to (Aldosterone Antagonist,Angiotensin Converting Enzyme Inhibitor,Angiotensin II Receptor Blocker,Beta Blocker,Diuretics Not Otherwise Specified,Loop Diuretics,Thiazides)	Short Name: F_RefProType
		Missing Data: Illegal
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Multiple
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Transcatheter Valve Therapy Procedure - 1.3.6.1.4.1.19376.1.4.1.6.5.695

Selection	Definition	Source	Code	Code System Name
TAVR	Transcatheter aortic valve replacement		41873006	SNOMED CT
TMVr	Transcatheter mitral repair procedure		112000001801	ACC NCDR
TMVR	Transcatheter mitral valve replacement		112000001458	ACC NCDR
Tricuspid Valve Procedure	Transcatheter tricuspid valve procedures include either a transcatheter tricuspid valve replacement or transcatheter tricuspid valve repair.		112000001977	ACC NCDR



Section: Follow Up

Parent: Root

Element: 11004	Follow-Up Status	Technical Specification
Coding Instruction:	Indicate whether the patient was alive or deceased at the date the follow-up was performed.	Code: 308273005
Target Value:	The value on Follow-up	Code System Name: SNOMED CT
		Short Name: F_Status
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Follow-Up Status - 1.3.6.1.4.1.19376.1.4.1.6.5.372

Selection	Definition	Source	Code	Code System Name
Alive			438949009	SNOMED CT
Deceased			20	HL7 Discharge disposition
Lost to follow-up			399307001	SNOMED CT

Element: 14338	Follow-Up Reference Discharge Date	Technical Specification
Coding Instruction:	Indicate the date of discharge for the episode of care that included the reference procedure.	Code: 112000001859
Target Value:	The value on Follow-up	Code System Name: ACC NCDR
Vendor Instruction:	Follow-Up Reference Discharge Date (14338) must not be Null	Short Name: FU_RefDischargeDate
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: DT
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



Section: Follow Up

Parent: Root

Element: 11006		Follow-Up Date of Death	Technical Specification
Coding Instruction:		Indicate the date the patient was declared dead.	Code: 1000142373
Target Value:		The value on Follow-up	Code System Name: ACC NCDR
Vendor Instruction:		Follow-Up Date of Death (11006) must be Greater than or Equal to Follow-Up Reference Procedure Start Date and Time (11001)	Short Name: F_DeathDate
		Follow-Up Date of Death (11006) must be Greater than or Equal to Follow-Up Reference Discharge Date (14338)	Missing Data: Report
		Follow-Up Date of Death (11006) must be Less than or Equal to Follow-Up Assessment Date (11000)	Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: No
			Is Followup Element: Yes
			Data Type: DT
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
Parent/Child Validation			
Element: 11004			Follow-Up Status
Operator: Equal			
Value: Deceased			

Element: 11003		Method to Determine Follow-Up Status	Technical Specification
Coding Instruction:		Indicate the method to determine follow-up status.	Code: 100014059
Target Value:		The value on Follow-up	Code System Name: ACC NCDR
			Short Name: F_Method
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: No
			Is Followup Element: Yes
			Data Type: CD
			Precision:
			Selection Type: Multiple
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User

Method to Determine Follow-up status - 1.3.6.1.4.1.19376.1.4.1.6.5.370

Selection	Definition	Source	Code	Code System Name
Office visit			183654001	SNOMED CT
Medical records			100014060	ACC NCDR
Letter from medical provider			100014061	ACC NCDR
Phone Call			100014062	ACC NCDR
Social Security Death Master File			1000142362	ACC NCDR
Hospitalization			1000142363	ACC NCDR
Obituary List			112000001406	ACC NCDR
CMS Linked Data			112000001407	ACC NCDR
Other			100000351	ACC NCDR



Section: Follow Up

Parent: Root

Element: 11007 Cause of Death		Technical Specification
Coding Instruction: Indicate the primary cause of death, i.e. the first significant abnormal event which ultimately led to death.		Code: 184305005
Target Value: The value on Follow-up		Code System Name: SNOMED CT
		Short Name: F_DeathCause
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 11004 Follow-Up Status		
Operator: Equal		
Value: Deceased		

Cause of Death Clinical Finding - 1.3.6.1.4.1.19376.1.4.1.6.5.88

Selection	Definition	Source	Code	Code System Name
Acute myocardial infarction	Death by any cardiovascular mechanism (e.g., arrhythmia, sudden death, heart failure, stroke, pulmonary embolus, peripheral arterial disease) within 30 days after an acute myocardial infarction, related to the immediate consequences of the MI, such as progressive HF or recalcitrant arrhythmia. There may be other assessable (attributable) mechanisms of cardiovascular death during this time period, but for simplicity, if the cardiovascular death occurs <=30 days of an acute myocardial infarction, it will be considered a death due to myocardial infarction.		100000960	ACC NCDR
Sudden cardiac death	Death that occurs unexpectedly, and not within 30 days of an acute MI.		100000978	ACC NCDR
Heart failure	Death associated with clinically worsening symptoms and/or signs of heart failure.		100000964	ACC NCDR
Stroke	Death after a stroke that is either a direct consequence of the stroke or a complication of the stroke.		100000977	ACC NCDR
Cardiovascular procedure	Death caused by the immediate complication(s) of a cardiovascular procedure.		100000962	ACC NCDR
Cardiovascular hemorrhage	Death related to hemorrhage such as a non-stroke intracranial hemorrhage, non-procedural or non-traumatic vascular rupture (e.g., aortic aneurysm), or hemorrhage causing cardiac tamponade.		100000961	ACC NCDR
Other cardiovascular reason	Cardiovascular death not included in the above categories but with a specific, known cause (e.g., pulmonary embolism, peripheral arterial disease).		100000972	ACC NCDR
Pulmonary	Non-cardiovascular death attributable to disease of the lungs (excludes malignancy).		100000975	ACC NCDR
Renal	Non-cardiovascular death attributable to renal failure.		100000976	ACC NCDR
Gastrointestinal	Non-cardiovascular death attributable to disease of the esophagus, stomach, or intestines (excludes malignancy).		100000963	ACC NCDR
Hepatobiliary	Non-cardiovascular death attributable to disease of the liver, gall bladder, or biliary ducts (exclude malignancy).		100000966	ACC NCDR
Pancreatic	Non-cardiovascular death attributable to disease of the pancreas (excludes malignancy).		100000974	ACC NCDR
Infection	Non-cardiovascular death attributable to an infectious disease.		100000967	ACC NCDR
Inflammatory/Immunologic	Non-cardiovascular death attributable to an inflammatory or immunologic disease process.		100000968	ACC NCDR
Hemorrhage	Non-cardiovascular death attributable to bleeding that is not considered cardiovascular hemorrhage or stroke per this classification.		100000965	ACC NCDR
Non-cardiovascular procedure	Death caused by the immediate complication(s) of a		100000971	ACC NCDR



Section: Follow Up		Parent: Root	
or surgery	non-cardiovascular procedure or surgery.		
Trauma	Non-cardiovascular death attributable to trauma.	100000980	ACC NCDR
Suicide	Non-cardiovascular death attributable to suicide.	100000979	ACC NCDR
Neurological	Non-cardiovascular death attributable to disease of the nervous system (excludes malignancy).	100000970	ACC NCDR
Malignancy	Non-cardiovascular death attributable to malignancy.	100000969	ACC NCDR
Other non-cardiovascular reason	Non-cardiovascular death attributable to a cause other than those listed in this classification (specify organ system).	100000973	ACC NCDR

Element: 13805	Residence	Technical Specification
Coding Instruction: Indicate the primary residence of the patient at the time of follow-up.		Code: 112000001506
Target Value: The value on Follow-up		Code System Name: ACC NCDR
		Short Name: F_Residence
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 11004	Follow-Up Status	
Operator: Equal		
Value: Alive		
----- AND -----		
Element: 14511	Residence Not Documented	
Operator: Equal		
Value: No (or Not Answered)		

Residence - 1.3.6.1.4.1.19376.1.4.1.6.5.562

Selection	Definition	Source	Code	Code System Name
Home with No Health Aid	The patient lives at home with no health-aid (this includes living in senior living facilities with no assistance).		112000001507	ACC NCDR
Home with Health Aid	The patient lives at home with health-aid (this includes living in senior living facilities with assistance).		112000001508	ACC NCDR
Long Term Care	The patient lives in a long-term care facility that provides the person's health or personal care needs during a short or long period of time.	National Institute of Aging at the National Institutes of Health	42665001	SNOMED CT
Other			100000351	ACC NCDR



Section: Follow Up Parent: Root

Element: 14511 Residence Not Documented		Technical Specification
Coding Instruction: Indicate if the primary residence of the patient was not documented during follow-up.		Code: 112000001506
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: F_ResidenceND
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
Element: 11004 Follow-Up Status		
Operator: Equal		
Value: Alive		



Section: Follow-Up Clinical Assessment

Parent: Follow Up

Element: 13775		Technical Specification
Hemoglobin		Code: 718-7
Coding Instruction: Indicate the hemoglobin (Hgb) value in g/dL.		Code System Name: LOINC
Note(s): This may include POC (Point of Care) testing results or results obtained prior to arrival at this facility.		Short Name: FU_ProcHgb1
Target Value: The last value between discharge (or previous follow-up) and current follow-up assessment		Missing Data: Report
Supporting Definition: Hemoglobin Hemoglobin (Hb or Hgb) is the iron-containing oxygen-transport metalloprotein in the red blood cells. It carries oxygen from the lungs to the rest of the body (i.e. the tissues) where it releases the oxygen to burn nutrients and provide energy. Hemoglobin concentration measurement is among the most commonly performed blood tests, usually as part of a complete blood count. If the concentration is below normal, this is called anemia. Anemias are classified by the size of red blood cells: "microcytic" if red cells are small, "macrocytic" if they are large, and "normocytic" if otherwise. Dehydration or hyperhydration can greatly influence measured hemoglobin levels. Source: http://s.details.loinc.org/LOINC/718-7.html?sections=Simple		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: PQ
		Precision: 4,2
		Selection Type: Single
		Unit of Measure: g/dL
		Default Value: Null
		Usual Range: 5.00 - 20.00 g/dL
		Valid Range: 1.00 - 50.00 g/dL
		Data Source: User
		Parent/Child Validation
		Element: 14326 Hemoglobin Not Drawn
		Operator: Equal
		Value: No (or Not Answered)

Element: 14326		Technical Specification
Hemoglobin Not Drawn		Code: 718-7
Coding Instruction: Indicate if a follow-up hemoglobin was not collected.		Code System Name: LOINC
Target Value: N/A		Short Name: FUHgbND
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



Section: Follow-Up Clinical Assessment

Parent: Follow Up

Element: 13310		Technical Specification
Creatinine		
Coding Instruction: Indicate the creatinine value.		Code: 2160-0
Target Value: The last value between discharge (or previous follow-up) and current follow-up assessment		Code System Name: LOINC
Supporting Definition: Creatinine		Short Name: Follow_Creat
Creatinine or creatine anhydride, is a breakdown product of creatine phosphate in muscle. The loss of water molecule from creatine results in the formation of creatinine. It is transferred to the kidneys by blood plasma, whereupon it is eliminated by glomerular filtration and partial tubular excretion. Creatinine is usually produced at a fairly constant rate and measuring its serum level is a simple test. A rise in blood creatinine levels is observed only with marked damage to functioning nephrons; therefore this test is not suitable for detecting early kidney disease. Creatine and creatinine are metabolized in the kidneys, muscle, liver and pancreas.		Missing Data: Report
Source: http://s.details.loinc.org/LOINC/2160-0.html?sections=Simple		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: PQ
		Precision: 4,2
		Selection Type: Single
		Unit of Measure: mg/dL
		Default Value: Null
		Usual Range: 0.10 - 9.00 mg/dL
		Valid Range: 0.10 - 30.00 mg/dL
		Data Source: User
		Parent/Child Validation
		Element: 13311 Creatinine Not Drawn
		Operator: Equal
		Value: No (or Not Answered)

Element: 13311		Technical Specification
Creatinine Not Drawn		
Coding Instruction: Indicate if a follow-up creatinine level was not collected.		Code: 2160-0
Target Value: N/A		Code System Name: LOINC
		Short Name: FollowCreatinineNotDrawn
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



Section: Follow-Up Clinical Assessment

Parent: Follow Up

Element: 13688		Technical Specification
New York Heart Association Classification		
Coding Instruction:	Indicate the patient's latest dyspnea or functional class, coded as the New York Heart Association (NYHA) classification.	Code: 420816009
Target Value:	The value on Follow-up	Code System Name: SNOMED CT
Supporting Definition:	NYHA The NYHA classes focus on exercise capacity and the symptomatic status of the disease. Source: 2013 ACCF/AHA Guideline for the Management of Heart Failure; J Am Coll Cardiol. 2013;62(16):e147-e239. doi:10.1016/j.jacc.2013.05.019	Short Name: F_NYHA Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: No Is Followup Element: Yes Data Type: CD Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
		Parent/Child Validation
		Element: 14333 New York Heart Association Classification Not Documented Operator: Equal Value: No (or Not Answered)

NYHA Functional Classification - 1.3.6.1.4.1.19376.1.4.1.6.5.8

Selection	Definition	Source	Code	Code System Name
Class I	Patients with cardiac disease but without resulting limitations of physical activity. Ordinary physical activity does not cause undue fatigue, palpitation, or dyspnea.	The Criteria Committee of the New York Heart Association. Nomenclature and Criteria for Diagnosis of Diseases of the Heart and Great Vessels. 9th ed. Boston, Mass: Little, Brown & Co; 1994:253-256.	420300004	SNOMED CT
Class II	Patients with cardiac disease resulting in slight limitation of physical activity. They are comfortable at rest. Ordinary physical activity results in fatigue, palpitation, or dyspnea.		421704003	SNOMED CT
Class III	Patients with cardiac disease resulting in marked limitation of physical activity. They are comfortable at rest. Less than ordinary activity causes fatigue, palpitation, or dyspnea.		420913000	SNOMED CT
Class IV	Patients with cardiac disease resulting in inability to carry on any physical activity without discomfort. Symptoms are present even at rest or minimal exertion. If any physical activity is undertaken, discomfort is increased.		422293003	SNOMED CT

Element: 14333		Technical Specification
New York Heart Association Classification Not Documented		
Coding Instruction:	Indicate if NYHA was not documented during the follow-up assessment period.	Code: 420816009
Target Value:	The value on Follow-up	Code System Name: SNOMED CT
		Short Name: F_NYHAND Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: No Is Followup Element: Yes Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User



Section: Follow-Up Clinical Assessment

Parent: Follow Up

Element: 13689	12 Lead Electrocardiogram Performed	Technical Specification
Coding Instruction:	Indicate if a 12 lead ECG was performed in the follow-up assessment period.	Code: 164847006
Target Value:	The value on Follow-up	Code System Name: SNOMED CT
		Short Name: F_12LeadEKG
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 13621	12 Lead Electrocardiogram Findings	Technical Specification
Coding Instruction:	Indicate the 12 lead ECG findings during follow-up. If more than one ECG is performed, document the findings from any ECG.	Code: 112000001362
Target Value:	The value on Follow-up	Code System Name: ACC NCDR
Vendor Instruction:	Cannot select option No Significant Changes with any other option: Pathological Q Wave, Cardiac Arrhythmia, New Left Bundle Branch Block, Pathological Q Wave, Cardiac Arrhythmia or New Left Bundle Branch Block	Short Name: F_EKGChange
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Multiple
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13689 12 Lead Electrocardiogram Performed
		Operator: Equal
		Value: Yes

12 Lead Electrocardiogram Findings - 1.3.6.1.4.1.19376.1.4.1.6.5.535

Selection	Definition	Source	Code	Code System Name
Cardiac Arrhythmia	The patient has a new onset of an atrial or ventricular arrhythmia requiring medication or other therapy. This includes brady or tachy arrhythmias.		698247007	SNOMED CT
No Significant Changes			112000001391	ACC NCDR
Pathological Q Wave			164918000	SNOMED CT
New Left Bundle Branch Block			100014019	ACC NCDR



Section: Follow-Up Imaging

Parent: Follow-Up Echocardiogram

Element: 13492 Echocardiogram Performed		Technical Specification
Coding Instruction: Indicate whether an echo (and the type of echo) was performed in the follow-up assessment period.		Code: 40701008
Target Value: Any occurrence on follow-up		Code System Name: SNOMED CT
		Short Name: F_POPTTEch
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14512 Echocardiogram Not Performed
		Operator: Equal
		Value: No (or Not Answered)

Echocardiogram Type - 1.3.6.1.4.1.19376.1.4.1.6.5.526

Selection	Definition	Source	Code	Code System Name
Transesophageal Echocardiogram (TEE)			105376000	SNOMED CT
Transthoracic Echo (TTE)			433236007	SNOMED CT

Element: 14512 Echocardiogram Not Performed		Technical Specification
Coding Instruction: Indicate if an echocardiogram was not performed during follow-up.		Code: 40701008
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: F_EchoND
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User



Section: Follow-Up Imaging

Parent: Follow-Up Echocardiogram

Element: 13593 Echocardiogram Date		Technical Specification
Coding Instruction: Indicate the date the echocardiogram was performed.		Code: 40701008
		Code System Name: SNOMED CT
		Short Name: F_PopTTEchDate
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: DT
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13492 Echocardiogram Performed
		Operator: Equal
		Value: Transesophageal Echocardiogram (TEE)
		Element: 13492 Echocardiogram Performed
		Operator: Equal
		Value: Transthoracic Echo (TTE)

Element: 13690 Left Ventricular Ejection Fraction		Technical Specification
Coding Instruction: Indicate the left ventricular ejection fraction.		Code: 10230-1
		Code System Name: LOINC
		Short Name: F_LVEF
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: PQ
		Precision: 2,0
		Selection Type: Single
		Unit of Measure: %
		Default Value: Null
		Usual Range: 5 - 90 %
		Valid Range: 1 - 99 %
		Data Source: User
		Parent/Child Validation
		Element: 13492 Echocardiogram Performed
		Operator: Equal
		Value: Transthoracic Echo (TTE)
		Element: 13492 Echocardiogram Performed
		Operator: Equal
		Value: Transesophageal Echocardiogram (TEE)
		----- AND -----
		Element: 13691 Left Ventricular Ejection Fraction
		Not Assessed
		Operator: Equal
		Value: No (or Not Answered)



Section: Follow-Up Imaging Parent: Follow-Up Echocardiogram

Element: 13691 Left Ventricular Ejection Fraction Not Assessed		Technical Specification
Coding Instruction: Indicate whether the left ventricular ejection fraction was not assessed.		Code: 100001027
Target Value: The value on Follow-up		Code System Name: ACC NCDR
		Short Name: F_LVEFNA
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
Element: 13492 Echocardiogram Performed		
Operator: Equal		
Value: Transthoracic Echo (TTE)		
Element: 13492 Echocardiogram Performed		
Operator: Equal		
Value: Transesophageal Echocardiogram (TEE)		



Section: Follow-Up Aortic Valve

Parent: Follow-Up Echocardiogram

Element: 13676 Aortic Valve Mean Gradient		Technical Specification
Coding Instruction: Indicate the highest aortic valve mean gradient in mm Hg.		Code: 112000001398
Target Value: The highest value on follow up		Code System Name: ACC NCDR
		Short Name: F_AVMeanGradient
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mm[Hg]
		Default Value: Null
		Usual Range: 5 - 50 mm[Hg]
		Valid Range: 0 - 200 mm[Hg]
		Data Source: User
Parent/Child Validation		
Element: 13492 Echocardiogram Performed		
Operator: Equal		
Value: Transthoracic Echo (TTE)		
Element: 13492 Echocardiogram Performed		
Operator: Equal		
Value: Transesophageal Echocardiogram (TEE)		
----- AND -----		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: TAVR		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: Tricuspid Valve Procedure		



Section: Follow-Up Aortic Valve Parent: Follow-Up Echocardiogram

Element: 13669 Aortic Valve Area		Technical Specification
Coding Instruction: Indicate the smallest aortic valve area, in cm2.		Code: 112000001280
Target Value: The value on Follow-up		Code System Name: ACC NCDR
		Short Name: F_AVArea
		Missing Data: Report
		Harvested: Yes (TAVR)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: PQ
		Precision: 3,2
		Selection Type: Single
		Unit of Measure: cm2
		Default Value: Null
		Usual Range: 0.20 - 4.00 cm2
		Valid Range: 0.05 - 5.00 cm2
		Data Source: User
Parent/Child Validation		
Element: 13492 Echocardiogram Performed		
Operator: Equal		
Value: Transthoracic Echo (TTE)		
Element: 13492 Echocardiogram Performed		
Operator: Equal		
Value: Transesophageal Echocardiogram (TEE)		
----- AND -----		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: TAVR		



Section: Follow-Up AV Regurgitation

Parent: Follow-Up Echocardiogram

Element: 13527 Aortic Valve Regurgitation		Technical Specification
Coding Instruction: Indicate the severity of aortic valve regurgitation. If mild-moderate is documented, code as mild. If moderate-severe is documented, code as moderate. Target Value: The value on Follow-up		Code: 60234000 Code System Name: SNOMED CT Short Name: F_AR Missing Data: Report Harvested: Yes (BDS, TAVR, TTVP) Is Identifier: No Is Base Element: No Is Followup Element: Yes Data Type: CD Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
		Parent/Child Validation
		Element: 13492 Echocardiogram Performed Operator: Equal Value: Transthoracic Echo (TTE) Element: 13492 Echocardiogram Performed Operator: Equal Value: Transesophageal Echocardiogram (TEE) ----- AND ----- Element: 13705 Transcatheter Valve Therapy Reference Procedure Type Operator: Equal Value: TAVR Element: 13705 Transcatheter Valve Therapy Reference Procedure Type Operator: Equal Value: Tricuspid Valve Procedure

Valve Regurgitation Severity - 1.3.6.1.4.1.19376.1.4.1.6.5.767

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Trace/Trivial			112000001911	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Follow-Up AV Regurgitation

Parent: Follow-Up Echocardiogram

Element: 14504 Paravalvular Aortic Regurgitation

Coding Instruction: Indicate the severity of paravalvular aortic regurgitation.

Note: If trace/trivial is documented, code "none".

Target Value: The highest value on follow up

Technical Specification

Code: 112000001428

Code System Name: ACC NCDR

Short Name: F_ParaAR

Missing Data: Report

Harvested: Yes (BDS, TAVR)

Is Identifier: No

Is Base Element: No

Is Followup Element: Yes

Data Type: CD

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13527 Aortic Valve Regurgitation

Operator: Equal

Value: Mild

Element: 13527 Aortic Valve Regurgitation

Operator: Equal

Value: Moderate

Element: 13527 Aortic Valve Regurgitation

Operator: Equal

Value: Severe

Element: 13527 Aortic Valve Regurgitation

Operator: Equal

Value: Trace/Trivial

----- AND -----

Element: 14527 Paravalvular Aortic Regurgitation
Not Documented

Operator: Equal

Value: No (or Not Answered)

----- AND -----

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: TAVR

Valve Regurgitation Severity 4 - 1.3.6.1.4.1.19376.1.4.1.6.5.768

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Follow-Up AV Regurgitation

Parent: Follow-Up Echocardiogram

Element: 14527		Paravalvular Aortic Regurgitation Not Documented	Technical Specification
Coding Instruction:		Indicate if the severity of paravalvular aortic regurgitation was not documented.	Code: 112000001428
Target Value:		N/A	Code System: ACC NCDR
			Name:
			Short Name: F_ParaARND
			Missing Data: Report
			Harvested: Yes (BDS, TAVR)
			Is Identifier: No
			Is Base Element: No
			Is Followup Element: Yes
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 13705 Transcatheter Valve Therapy Reference Procedure Type
			Operator: Equal
			Value: TAVR
			----- AND -----
			Element: 13527 Aortic Valve Regurgitation
			Operator: Equal
			Value: Mild
			Element: 13527 Aortic Valve Regurgitation
			Operator: Equal
			Value: Moderate
			Element: 13527 Aortic Valve Regurgitation
			Operator: Equal
			Value: Severe
			Element: 13527 Aortic Valve Regurgitation
			Operator: Equal
			Value: Trace/Trivial



Section: Follow-Up AV Regurgitation

Parent: Follow-Up Echocardiogram

Element: 14500		Central Aortic Regurgitation	
Coding Instruction:		Indicate the severity of central aortic regurgitation.	
		Note: If trace/trivial is documented, code "none".	
Target Value:		The highest value on follow up	

Valve Regurgitation Severity 4 - 1.3.6.1.4.1.19376.1.4.1.6.5.768

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Follow-Up AV Regurgitation

Parent: Follow-Up Echocardiogram

Element: 14490 Central Aortic Regurgitation Not Documented

Coding Instruction: Indicate if central aortic regurgitation was not documented.

Target Value: N/A

Technical Specification

Code: 112000001433

Code System Name: ACC NCDR

Short Name: F_CentARND

Missing Data: Report

Harvested: Yes (TAVR)

Is Identifier: No

Is Base Element: No

Is Followup Element: Yes

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: TAVR

AND

Element: 13527 Aortic Valve Regurgitation

Operator: Equal

Value: Mild

Element: 13527 Aortic Valve Regurgitation

Operator: Equal

Value: Moderate

Element: 13527 Aortic Valve Regurgitation

Operator: Equal

Value: Severe

Element: 13527 Aortic Valve Regurgitation

Operator: Equal

Value: Trace/Trivial



Section: Follow-Up MV Imaging

Parent: Follow-Up Echocardiogram

Element: 13778 Mitral Valve Mean Gradient		Technical Specification
Coding Instruction: Indicate the highest mitral valve mean gradient, in mm Hg.		Code: 112000001191
Target Value: The highest value on follow up		Code System Name: ACC NCDR
Supporting Definition: Mitral Valve Mean Gradient The average gradient across the mitral valve occurring during the entire systole.		Short Name: F_MeanMVGrad
Source: Baumgartner, H. et. al (2009). Echocardiographic assessment of valve stenosis: EAE/ASE recommendations for clinical practice.		Missing Data: Report
		Harvested: Yes (BDS, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mm[Hg]
		Default Value: Null
		Usual Range: 5 - 50 mm[Hg]
		Valid Range: 0 - 150 mm[Hg]
		Data Source: User
Parent/Child Validation		
Element: 13492 Echocardiogram Performed		
Operator: Equal		
Value: Transthoracic Echo (TTE)		
Element: 13492 Echocardiogram Performed		
Operator: Equal		
Value: Transesophageal Echocardiogram (TEE)		
----- AND -----		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: TMVR		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: TMVr		



Section: Follow-Up MV Imaging

Parent: Follow-Up Echocardiogram

Element: 13768 Effective Regurgitant Orifice Area		Technical Specification
Coding Instruction: Indicate the effective regurgitant orifice area (EROA), in cm2.		Code: 112000001437
Target Value: The highest value on follow up		Code System Name: ACC NCDR
		Short Name: F_MV_EOA
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: PQ
		Precision: 2,1
		Selection Type: Single
		Unit of Measure: cm2
		Default Value: Null
		Usual Range: 0.1 - 5.0 cm2
		Valid Range: 0.1 - 5.0 cm2
		Data Source: User
Parent/Child Validation		
Element: 13492	Echocardiogram Performed	
Operator:	Equal	
Value:	Transthoracic Echo (TTE)	
Element: 13492	Echocardiogram Performed	
Operator:	Equal	
Value:	Transesophageal Echocardiogram (TEE)	
----- AND -----		
Element: 13705	Transcatheter Valve Therapy Reference Procedure Type	
Operator:	Equal	
Value:	TMVR	
Element: 13705	Transcatheter Valve Therapy Reference Procedure Type	
Operator:	Equal	
Value:	TMVr	

Element: 13780 Effective Regurgitant Orifice Area Method of Assessment		Technical Specification
Coding Instruction: Indicate the method used to assess the effective orifice area. If multiple methods are available, code the 3D planimetry method first, then PISA.		Code: 112000001437
Target Value: The value on Follow-up		Code System Name: ACC NCDR
		Short Name: F_MV_EOA_MOA
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13768	Effective Regurgitant Orifice Area	
Operator:		
Value:	Any Value	

Effective Regurgitant Orifice Area Method of Assessment - 1.3.6.1.4.1.19376.1.4.1.6.5.547

Selection	Definition	Source	Code	Code System Name
3D Planimetry			112000001438	ACC NCDR
Proximal Isovelocity Surface Area			112000001439	ACC NCDR
Quantitative Doppler			112000001440	ACC NCDR
Other			100000351	ACC NCDR



Section: Follow-Up MV Imaging

Parent: Follow-Up Echocardiogram

Element: 13781		Technical Specification
Mitral Valve Area		
Coding Instruction: Indicate the smallest mitral valve area in centimeters squared.		Code: 251012002
Target Value: The value on Follow-up		Code System Name: SNOMED CT
Supporting Definition: Mitral Valve Area		Short Name: F_MVA
Measurement of mitral valve area.		Missing Data: Report
Source:		Harvested: Yes (TMVR)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: PQ
		Precision: 4,2
		Selection Type: Single
		Unit of Measure: cm2
		Default Value: Null
		Usual Range: 3.00 - 6.00 cm2
		Valid Range: 0.05 - 12.00 cm2
		Data Source: User
		Parent/Child Validation
		Element: 13492 Echocardiogram Performed
		Operator: Equal
		Value: Transthoracic Echo (TTE)
		Element: 13492 Echocardiogram Performed
		Operator: Equal
		Value: Transesophageal Echocardiogram (TEE)
		----- AND -----
		Element: 13705 Transcatheter Valve Therapy
		Reference Procedure Type
		Operator: Equal
		Value: TMVR

Element: 13773		Technical Specification
Left Ventricular Outflow Tract Peak Velocity		
Coding Instruction: Indicate the left ventricular outflow tract peak velocity in m/sec.		Code: 112000002047
Target Value: The highest value on follow up		Code System Name: ACC NCDR
		Short Name: F_LVOT
		Missing Data: Report
		Harvested: Yes (BDS, TMVR)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: PQ
		Precision: 3,1
		Selection Type: Single
		Unit of Measure: m/sec
		Default Value: Null
		Usual Range: 0.5 - 5.0 m/sec
		Valid Range: 0.1 - 10.0 m/sec
		Data Source: User
		Parent/Child Validation
		Element: 13492 Echocardiogram Performed
		Operator: Equal
		Value: Transthoracic Echo (TTE)
		Element: 13492 Echocardiogram Performed
		Operator: Equal
		Value: Transesophageal Echocardiogram (TEE)
		----- AND -----
		Element: 13705 Transcatheter Valve Therapy
		Reference Procedure Type
		Operator: Equal
		Value: TMVR



Section: Follow-Up MV Imaging

Parent: Follow-Up Echocardiogram

Element: 13782		Systolic Anterior Motion Present		Technical Specification	
Coding Instruction: Indicate if systolic anterior motion of the mitral valve was present. Target Value: The value on Follow-up				Code:	112000001481
				Code System Name:	ACC NCDR
				Short Name:	F_SAM
				Missing Data:	Report
				Harvested:	Yes (TMVR)
				Is Identifier:	No
				Is Base Element:	No
				Is Followup Element:	Yes
				Data Type:	BL
				Precision:	
				Selection Type:	Single
				Unit of Measure:	
				Default Value:	Null
				Usual Range:	
				Valid Range:	
Data Source:	User				
Parent/Child Validation					
Element:	13492	Echocardiogram Performed			
Operator:	Equal				
Value:	Transthoracic Echo (TTE)				
Element:	13492	Echocardiogram Performed			
Operator:	Equal				
Value:	Transesophageal Echocardiogram (TEE)				
----- AND -----					
Element:	13705	Transcatheter Valve Therapy Reference Procedure Type			
Operator:	Equal				
Value:	TMVR				



Section: Follow-Up MV Imaging

Parent: Follow-Up Echocardiogram

Element: 13783 Left Ventricular Internal Systolic Dimension		Technical Specification
Coding Instruction: Indicate the left ventricular internal systolic dimension in cm.		Code: 112000001424
Target Value: The value on Follow-up		Code System Name: ACC NCDR
		Short Name: F_LVIDs
		Missing Data: Report
		Harvested: Yes (BDS, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: PQ
		Precision: 2,1
		Selection Type: Single
		Unit of Measure: cm
		Default Value: Null
		Usual Range: 2.5 - 4.5 cm
		Valid Range: 1.0 - 9.0 cm
		Data Source: User
Parent/Child Validation		
Element: 13492 Echocardiogram Performed		
Operator: Equal		
Value: Transthoracic Echo (TTE)		
Element: 13492 Echocardiogram Performed		
Operator: Equal		
Value: Transesophageal Echocardiogram (TEE)		
----- AND -----		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: TMVR		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: TMVr		
----- AND -----		
Element: 14536 Left Ventricular Internal Systolic Dimension Not Measured		
Operator: Equal		
Value: No (or Not Answered)		



Section: Follow-Up MV Imaging

Parent: Follow-Up Echocardiogram

Element: 14536 Left Ventricular Internal Systolic Dimension Not Measured

Coding Instruction: Indicate if the left ventricular internal systolic dimension was not measured.

Target Value: N/A

Technical Specification

Code: 112000001424

Code System Name: ACC NCDR

Short Name: F_LVIDs_NM

Missing Data: Report

Harvested: Yes (BDS, TMVR, TMVrpr)

Is Identifier: No

Is Base Element: No

Is Followup Element: Yes

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13492 Echocardiogram Performed

Operator: Equal

Value: Transthoracic Echo (TTE)

Element: 13492 Echocardiogram Performed

Operator: Equal

Value: Transesophageal Echocardiogram (TEE)

----- AND -----

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: TMVR

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: TMVr



Section: Follow-Up MV Imaging

Parent: Follow-Up Echocardiogram

Element: 13784 Left Ventricular Internal Diastolic Dimension		Technical Specification
Coding Instruction: Indicate the left ventricular internal diastolic dimension in cm.		Code: 112000001425
Target Value: The value on Follow-up		Code System Name: ACC NCDR
		Short Name: F_LVIDd
		Missing Data: Report
		Harvested: Yes (BDS, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: PQ
		Precision: 3,1
		Selection Type: Single
		Unit of Measure: cm
		Default Value: Null
		Usual Range: 3.5 - 5.5 cm
		Valid Range: 1.0 - 10.0 cm
		Data Source: User
Parent/Child Validation		
Element: 13492 Echocardiogram Performed		
Operator: Equal		
Value: Transthoracic Echo (TTE)		
Element: 13492 Echocardiogram Performed		
Operator: Equal		
Value: Transesophageal Echocardiogram (TEE)		
----- AND -----		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: TMVR		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: TMVr		
----- AND -----		
Element: 14537 Left Ventricular Internal Diastolic Dimension Not Measured		
Operator: Equal		
Value: No (or Not Answered)		



Section: Follow-Up MV Imaging

Parent: Follow-Up Echocardiogram

Element: 14537 Left Ventricular Internal Diastolic Dimension Not Measured

Coding Instruction: Indicate if the left ventricular internal diastolic dimension was not measured.

Target Value: N/A

Technical Specification

Code: 112000001425

Code System Name: ACC NCDR

Short Name: F_LVIDd_NM

Missing Data: Report

Harvested: Yes (BDS, TMVR, TMVrpr)

Is Identifier: No

Is Base Element: No

Is Followup Element: Yes

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13492 Echocardiogram Performed

Operator: Equal

Value: Transthoracic Echo (TTE)

Element: 13492 Echocardiogram Performed

Operator: Equal

Value: Transesophageal Echocardiogram (TEE)

----- AND -----

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: TMVR

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: TMVr



Section: Follow-Up MV Imaging

Parent: Follow-Up Echocardiogram

Element: 13786 Left Ventricular End Systolic Volume		Technical Specification
Coding Instruction: Indicate the left ventricular end systolic volume in mL.		Code: 250931004
Target Value: The value on Follow-up		Code System Name: SNOMED CT
		Short Name: F_LVESV
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mL
		Default Value: Null
		Usual Range: 10 - 150 mL
		Valid Range: 1 - 300 mL
		Data Source: User
Parent/Child Validation		
Element: 13492 Echocardiogram Performed		
Operator: Equal		
Value: Transthoracic Echo (TTE)		
Element: 13492 Echocardiogram Performed		
Operator: Equal		
Value: Transesophageal Echocardiogram (TEE)		
----- AND -----		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: TMVR		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: TMVr		
----- AND -----		
Element: 14539 Left Ventricular End Systolic Volume Not Measured		
Operator: Equal		
Value: No (or Not Answered)		



Section: Follow-Up MV Imaging

Parent: Follow-Up Echocardiogram

Element: 14539 Left Ventricular End Systolic Volume Not Measured

Coding Instruction: Indicate if the left ventricular end systolic volume was not measured.

Target Value: N/A

Technical Specification

Code: 250931004

Code System Name: SNOMED CT

Short Name: F_LVESV_NM

Missing Data: Report

Harvested: Yes (TMVR, TMVrpr)

Is Identifier: No

Is Base Element: No

Is Followup Element: Yes

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13492 Echocardiogram Performed

Operator: Equal

Value: Transthoracic Echo (TTE)

Element: 13492 Echocardiogram Performed

Operator: Equal

Value: Transesophageal Echocardiogram (TEE)

----- AND -----

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: TMVR

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: TMVr



Section: Follow-Up MV Imaging

Parent: Follow-Up Echocardiogram

Element: 13785	Left Ventricular End Diastolic Volume	Technical Specification
Coding Instruction:	Indicate the left ventricular end diastolic volume in ml.	Code: 250932006
Target Value:	The value on Follow-up	Code System Name: SNOMED CT
		Short Name: F_LVEDV
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mL
		Default Value: Null
		Usual Range: 40 - 250 mL
		Valid Range: 1 - 400 mL
		Data Source: User
Parent/Child Validation		
Element: 13492	Echocardiogram Performed	
Operator: Equal		
Value: Transthoracic Echo (TTE)		
Element: 13492	Echocardiogram Performed	
Operator: Equal		
Value: Transesophageal Echocardiogram (TEE)		
----- AND -----		
Element: 13705	Transcatheter Valve Therapy Reference Procedure Type	
Operator: Equal		
Value: TMVR		
Element: 13705	Transcatheter Valve Therapy Reference Procedure Type	
Operator: Equal		
Value: TMVr		
----- AND -----		
Element: 14538	Left Ventricular End Diastolic Volume Not Measured	
Operator: Equal		
Value: No (or Not Answered)		



Section: Follow-Up MV Imaging

Parent: Follow-Up Echocardiogram

Element: 14538 Left Ventricular End Diastolic Volume Not Measured

Coding Instruction: Indicate if the left ventricular end diastolic volume was not measured.

Target Value: N/A

Technical Specification

Code: 250932006

Code System Name: SNOMED CT

Short Name: F_LVEDV_NM

Missing Data: Report

Harvested: Yes (TMVR, TMVrpr)

Is Identifier: No

Is Base Element: No

Is Followup Element: Yes

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13492 Echocardiogram Performed

Operator: Equal

Value: Transthoracic Echo (TTE)

Element: 13492 Echocardiogram Performed

Operator: Equal

Value: Transesophageal Echocardiogram (TEE)

----- AND -----

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: TMVR

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: TMVr



Section: Follow-Up MV Imaging

Parent: Follow-Up Echocardiogram

Element: 13787 Left Atrial Volume		Technical Specification
Coding Instruction: Indicate the left atrial volume in mL.		Code: 112000001426
Target Value: The value on Follow-up		Code System Name: ACC NCDR
		Short Name: F_LAVol
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mL
		Default Value: Null
		Usual Range: 10 - 90 mL
		Valid Range: 1 - 500 mL
		Data Source: User
Parent/Child Validation		
Element: 13492 Echocardiogram Performed		
Operator: Equal		
Value: Transthoracic Echo (TTE)		
Element: 13492 Echocardiogram Performed		
Operator: Equal		
Value: Transesophageal Echocardiogram (TEE)		
----- AND -----		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: TMVR		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: TMVr		
----- AND -----		
Element: 14540 Left Atrial Volume Not Measured		
Operator: Equal		
Value: No (or Not Answered)		



Section: Follow-Up MV Imaging

Parent: Follow-Up Echocardiogram

Element: 14540 Left Atrial Volume Not Measured

Coding Instruction: Indicate if the left atrial volume was not measured.

Target Value: N/A

Technical Specification

Code: 112000001426

Code System Name: ACC NCDR

Short Name: F_LAVol_NM

Missing Data: Report

Harvested: Yes (TMVR, TMVrpr)

Is Identifier: No

Is Base Element: No

Is Followup Element: Yes

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13492 Echocardiogram Performed

Operator: Equal

Value: Transthoracic Echo (TTE)

Element: 13492 Echocardiogram Performed

Operator: Equal

Value: Transesophageal Echocardiogram (TEE)

----- AND -----

Element: 13705 Transcatheter Valve Therapy

Reference Procedure Type

Operator: Equal

Value: TMVR

Element: 13705 Transcatheter Valve Therapy

Reference Procedure Type

Operator: Equal

Value: TMVr



Section: Follow-Up MV Imaging

Parent: Follow-Up Echocardiogram

Element: 13788 Left Atrial Volume Index

Coding Instruction: Indicate the left atrial volume index in mL/m2.

Target Value: The value on Follow-up

Technical Specification

Code: 112000001427

Code System Name: ACC NCDR

Short Name: F_LAVolIndex

Missing Data: Report

Harvested: Yes (TMVR, TMVrpr)

Is Identifier: No

Is Base Element: No

Is Followup Element: Yes

Data Type: PQ

Precision: 3,0

Selection Type: Single

Unit of Measure: ml/m2

Default Value: Null

Usual Range: 10 - 90 ml/m2

Valid Range: 1 - 250 ml/m2

Data Source: User

Parent/Child Validation

Element: 13492 Echocardiogram Performed

Operator: Equal

Value: Transthoracic Echo (TTE)

Element: 13492 Echocardiogram Performed

Operator: Equal

Value: Transesophageal Echocardiogram (TEE)

----- AND -----

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: TMVR

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: TMVr

----- AND -----

Element: 14582 Left Atrial Volume Index Not
Measured

Operator: Equal

Value: No (or Not Answered)



Section: Follow-Up MV Imaging

Parent: Follow-Up Echocardiogram

Element: 14582 Left Atrial Volume Index Not Measured

Coding Instruction: Indicate if the left atrial volume index was not measured.

Target Value: N/A

Technical Specification

Code: 112000001427

Code System Name: ACC NCDR

Short Name: F_LAVolIndex_NM

Missing Data: Report

Harvested: Yes (TMVR, TMVrpr)

Is Identifier: No

Is Base Element: No

Is Followup Element: Yes

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13492 Echocardiogram Performed

Operator: Equal

Value: Transthoracic Echo (TTE)

Element: 13492 Echocardiogram Performed

Operator: Equal

Value: Transesophageal Echocardiogram (TEE)

----- AND -----

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: TMVr

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: TMVR



Section: Follow-Up MV Regurgitation

Parent: Follow-Up Echocardiogram

Element: 13673 Mitral Regurgitation		Technical Specification
Coding Instruction: Indicate highest level of mitral regurgitation. If mild-moderate is documented, code as mild.		Code: 48724000 Code System Name: SNOMED CT Short Name: F_MR Missing Data: Report Harvested: Yes (BDS, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: No Is Followup Element: Yes Data Type: CD Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Target Value: The value on Follow-up		Parent/Child Validation
		Element: 13492 Echocardiogram Performed Operator: Equal Value: Transthoracic Echo (TTE) Element: 13492 Echocardiogram Performed Operator: Equal Value: Transesophageal Echocardiogram (TEE) ----- AND ----- Element: 13705 Transcatheter Valve Therapy Reference Procedure Type Operator: Equal Value: TMVR Element: 13705 Transcatheter Valve Therapy Reference Procedure Type Operator: Equal Value: Tricuspid Valve Procedure Element: 13705 Transcatheter Valve Therapy Reference Procedure Type Operator: Equal Value: TMVr

Regurgitation Severity - 1.3.6.1.4.1.19376.1.4.1.6.5.728

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Trace/Trivial			112000001911	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Moderate-Severe			1000142345	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Follow-Up MV Regurgitation

Parent: Follow-Up Echocardiogram

Element: 13776 Paravalvular Mitral Regurgitation		Technical Specification
Coding Instruction: Indicate the severity of paravalvular mitral regurgitation.		Code: 112000001428
Note: If trace/trivial is documented, code "none".		Code System Name: ACC NCDR
Target Value: The highest value on follow up		Short Name: F_ParaMR
		Missing Data: Report
		Harvested: Yes (BDS, TMVR)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13673	Mitral Regurgitation	
Operator: Equal		
Value: Mild		
Element: 13673	Mitral Regurgitation	
Operator: Equal		
Value: Moderate		
Element: 13673	Mitral Regurgitation	
Operator: Equal		
Value: Severe		
Element: 13673	Mitral Regurgitation	
Operator: Equal		
Value: Trace/Trivial		
Element: 13673	Mitral Regurgitation	
Operator: Equal		
Value: Moderate-Severe		
----- AND -----		
Element: 14528	Paravalvular Mitral Regurgitation Not Documented	
Operator: Equal		
Value: No (or Not Answered)		
----- AND -----		
Element: 13705	Transcatheter Valve Therapy Reference Procedure Type	
Operator: Equal		
Value: TMVR		

Valve Regurgitation Severity 4 - 1.3.6.1.4.1.19376.1.4.1.6.5.768

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Follow-Up MV Regurgitation

Parent: Follow-Up Echocardiogram

Element: 14528 Paravalvular Mitral Regurgitation Not Documented

Coding Instruction: Indicate if the severity of paravalvular mitral regurgitation was not documented.

Target Value: N/A

Technical Specification

Code: 112000001428

Code System Name: ACC NCDR

Short Name: F_ParaMRND

Missing Data: Report

Harvested: Yes (BDS, TMVR)

Is Identifier: No

Is Base Element: No

Is Followup Element: Yes

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: TMVR

AND

Element: 13673 Mitral Regurgitation

Operator: Equal

Value: Mild

Element: 13673 Mitral Regurgitation

Operator: Equal

Value: Moderate

Element: 13673 Mitral Regurgitation

Operator: Equal

Value: Severe

Element: 13673 Mitral Regurgitation

Operator: Equal

Value: Trace/Trivial

Element: 13673 Mitral Regurgitation

Operator: Equal

Value: Moderate-Severe



Section: Follow-Up MV Regurgitation

Parent: Follow-Up Echocardiogram

Element: 13777 Central Mitral Regurgitation		Technical Specification
Coding Instruction: Indicate the severity of central mitral regurgitation.		Code: 112000001433
Note: If trace/trivial is documented, code "none".		Code System Name: ACC NCDR
Target Value: The highest value on follow up		Short Name: F_CentralMR
		Missing Data: Report
		Harvested: Yes (BDS, TMVR)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13673	Mitral Regurgitation	
Operator: Equal		
Value: Mild		
Element: 13673	Mitral Regurgitation	
Operator: Equal		
Value: Moderate		
Element: 13673	Mitral Regurgitation	
Operator: Equal		
Value: Severe		
Element: 13673	Mitral Regurgitation	
Operator: Equal		
Value: Trace/Trivial		
Element: 13673	Mitral Regurgitation	
Operator: Equal		
Value: Moderate-Severe		
----- AND -----		
Element: 14491	Central Mitral Regurgitation Not Documented	
Operator: Equal		
Value: No (or Not Answered)		
----- AND -----		
Element: 13705	Transcatheter Valve Therapy Reference Procedure Type	
Operator: Equal		
Value: TMVR		

Valve Regurgitation Severity 4 - 1.3.6.1.4.1.19376.1.4.1.6.5.768

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Follow-Up MV Regurgitation

Parent: Follow-Up Echocardiogram

Element: 14491 Central Mitral Regurgitation Not Documented

Coding Instruction: Indicate if central mitral regurgitation was not documented.

Target Value: N/A

Technical Specification

Code: 112000001433

Code System Name: ACC NCDR

Short Name: F_CentralMRND

Missing Data: Report

Harvested: Yes (BDS, TMVR)

Is Identifier: No

Is Base Element: No

Is Followup Element: Yes

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: TMVR

AND

Element: 13673 Mitral Regurgitation

Operator: Equal

Value: Mild

Element: 13673 Mitral Regurgitation

Operator: Equal

Value: Moderate

Element: 13673 Mitral Regurgitation

Operator: Equal

Value: Severe

Element: 13673 Mitral Regurgitation

Operator: Equal

Value: Trace/Trivial

Element: 13673 Mitral Regurgitation

Operator: Equal

Value: Moderate-Severe



Section: Follow-Up TV Imaging

Parent: Follow-Up Echocardiogram

Element: 14545		Tricuspid Valve Diastolic Gradient	Technical Specification
Coding Instruction:		Indicate the tricuspid valve diastolic gradient in mm Hg. This can also be called the TV inflow gradient.	Code: 112000001512
Target Value:		The highest value on follow up	Code System Name: ACC NCDR
			Short Name: F_TVDGrad
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: No
			Is Followup Element: Yes
			Data Type: PQ
			Precision: 2,0
			Selection Type: Single
			Unit of Measure: mm[Hg]
			Default Value: Null
			Usual Range: 1 - 15 mm[Hg]
			Valid Range: 1 - 50 mm[Hg]
			Data Source: User
			Parent/Child Validation
Element: 13492		Echocardiogram Performed	
Operator: Equal			
Value: Transthoracic Echo (TTE)			
Element: 13492		Echocardiogram Performed	
Operator: Equal			
Value: Transesophageal Echocardiogram (TEE)			
----- AND -----			
Element: 13705		Transcatheter Valve Therapy Reference Procedure Type	
Operator: Equal			
Value: Tricuspid Valve Procedure			
----- AND -----			
Element: 14546		Tricuspid Valve Diastolic Gradient Not Documented	
Operator: Equal			
Value: No (or Not Answered)			



Section: Follow-Up TV Imaging Parent: Follow-Up Echocardiogram

Element: 14546 Tricuspid Valve Diastolic Gradient Not Documented		Technical Specification
Coding Instruction: Indicate if the tricuspid valve diastolic gradient was not documented.		Code: 112000001512
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: F_TVDGradND
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13492 Echocardiogram Performed
		Operator: Equal
		Value: Transthoracic Echo (TTE)
		Element: 13492 Echocardiogram Performed
		Operator: Equal
		Value: Transesophageal Echocardiogram (TEE)
		----- AND -----
		Element: 13705 Transcatheter Valve Therapy Reference Procedure Type
		Operator: Equal
		Value: Tricuspid Valve Procedure



Section: Follow-Up TV Imaging

Parent: Follow-Up Echocardiogram

Element: 14547 Tricuspid Valve Annulus Size		Technical Specification
Coding Instruction: Indicate the tricuspid valve annulus size in mm. Document the size using end-diastolic, 4 chamber view is preferred (in mm).		Code: 112000001513
Target Value: The value on Follow-up		Code System Name: ACC NCDR
		Short Name: F_TVAnnulus
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: PQ
		Precision: 2,0
		Selection Type: Single
		Unit of Measure: mm
		Default Value: Null
		Usual Range: 15 - 60 mm
		Valid Range: 1 - 80 mm
		Data Source: User
Parent/Child Validation		
Element: 13492 Echocardiogram Performed		
Operator: Equal		
Value: Transthoracic Echo (TTE)		
Element: 13492 Echocardiogram Performed		
Operator: Equal		
Value: Transesophageal Echocardiogram (TEE)		
----- AND -----		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: Tricuspid Valve Procedure		
----- AND -----		
Element: 14548 Tricuspid Valve Annulus Size Not Documented		
Operator: Equal		
Value: No (or Not Answered)		



Section: Follow-Up TV Imaging

Parent: Follow-Up Echocardiogram

Element: 14548		Tricuspid Valve Annulus Size Not Documented	Technical Specification	
Coding Instruction:		Indicate if the tricuspid valve annulus size was not documented.	Code: 112000001513	
Target Value:		N/A	Code System Name: ACC NCDR	
			Short Name: F_TVAnnulusND	
			Missing Data: Report	
			Harvested: Yes (TTVP)	
			Is Identifier: No	
			Is Base Element: No	
			Is Followup Element: Yes	
			Data Type: BL	
			Precision:	
			Selection Type: Single	
			Unit of Measure:	
			Default Value: Null	
			Usual Range:	
			Valid Range:	
			Data Source: User	
			Parent/Child Validation	
			Element: 13492 Echocardiogram Performed	
			Operator: Equal	
			Value: Transthoracic Echo (TTE)	
			Element: 13492 Echocardiogram Performed	
			Operator: Equal	
			Value: Transesophageal Echocardiogram (TEE)	
			----- AND -----	
			Element: 13705 Transcatheter Valve Therapy	
			Reference Procedure Type	
			Operator: Equal	
			Value: Tricuspid Valve Procedure	



Section: Follow-Up TV Imaging

Parent: Follow-Up Echocardiogram

Element: 14549 End Diastolic Mid Right Ventricle Diameter		Technical Specification
Coding Instruction: Indicate the end-diastolic mid right ventricular (RV) diameter, using the 4 chamber view (in cm).		Code: 112000001514
Target Value: The value on Follow-up		Code System Name: ACC NCDR
		Short Name: F_MidRVDia
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: PQ
		Precision: 2,1
		Selection Type: Single
		Unit of Measure: cm
		Default Value: Null
		Usual Range: 1.0 - 7.0 cm
		Valid Range: 0.1 - 9.9 cm
		Data Source: User
Parent/Child Validation		
Element: 13492 Echocardiogram Performed		
Operator: Equal		
Value: Transthoracic Echo (TTE)		
Element: 13492 Echocardiogram Performed		
Operator: Equal		
Value: Transesophageal Echocardiogram (TEE)		
----- AND -----		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: Tricuspid Valve Procedure		
----- AND -----		
Element: 14550 End Diastolic Mid Right Ventricle Diameter Not Documented		
Operator: Equal		
Value: No (or Not Answered)		



Section: Follow-Up TV Imaging

Parent: Follow-Up Echocardiogram

Element: 14550 End Diastolic Mid Right Ventricle Diameter Not Documented

Coding Instruction: Indicate if the end-diastolic mid right ventricular diameter was not documented.

Target Value: N/A

Technical Specification

Code: 112000001514

Code System Name: ACC NCDR

Short Name: F_MidRVDiaND

Missing Data: Report

Harvested: Yes (TTVP)

Is Identifier: No

Is Base Element: No

Is Followup Element: Yes

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13492 Echocardiogram Performed

Operator: Equal

Value: Transthoracic Echo (TTE)

Element: 13492 Echocardiogram Performed

Operator: Equal

Value: Transesophageal Echocardiogram (TEE)

----- AND -----

Element: 13705 Transcatheter Valve Therapy

Reference Procedure Type

Operator: Equal

Value: Tricuspid Valve Procedure



Section: Follow-Up TV Imaging Parent: Follow-Up Echocardiogram

Element: 14551 End Diastolic Basal Right Ventricle Diameter		Technical Specification
Coding Instruction: Indicate the end-diastolic basal right ventricular (RV) diameter, using the 4 chamber view (in cm).		Code: 112000001515
Target Value: The value on Follow-up		Code System Name: ACC NCDR
		Short Name: F_BasalRVDia
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: PQ
		Precision: 2,1
		Selection Type: Single
		Unit of Measure: cm
		Default Value: Null
		Usual Range: 1.0 - 7.0 cm
		Valid Range: 0.1 - 9.9 cm
		Data Source: User
		Parent/Child Validation
		Element: 13492 Echocardiogram Performed
		Operator: Equal
		Value: Transthoracic Echo (TTE)
		Element: 13492 Echocardiogram Performed
		Operator: Equal
		Value: Transesophageal Echocardiogram (TEE)
		----- AND -----
		Element: 13705 Transcatheter Valve Therapy Reference Procedure Type
		Operator: Equal
		Value: Tricuspid Valve Procedure
		----- AND -----
		Element: 14552 End Diastolic Basal Right Ventricle Diameter Not Documented
		Operator: Equal
		Value: No (or Not Answered)



Section: Follow-Up TV Imaging

Parent: Follow-Up Echocardiogram

Element: 14552		End Diastolic Basal Right Ventricle Diameter Not Documented	Technical Specification
Coding Instruction:		Indicate if the basal diastolic mid right ventricular (RV) diameter was not documented.	Code: 112000001515
Target Value:		N/A	Code System: ACC NCDR
			Name: F_BasalDiaND
			Short Name: Report
			Missing Data: Yes (TTVP)
			Is Identifier: No
			Is Base Element: No
			Is Followup Element: Yes
			Data Type: BL
			Precision: Single
			Selection Type: Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 13492 Echocardiogram Performed
			Operator: Equal
			Value: Transthoracic Echo (TTE)
			Element: 13492 Echocardiogram Performed
			Operator: Equal
			Value: Transesophageal Echocardiogram (TEE)
			----- AND -----
			Element: 13705 Transcatheter Valve Therapy
			Reference Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure



Section: Follow-Up TV Imaging

Parent: Follow-Up Echocardiogram

Element: 14553		Right Ventricular Systolic Pressure	Technical Specification
Coding Instruction:		Indicate the right ventricular systolic pressure in mm Hg.	Code: 276772001
Target Value:		The highest value on follow up	Code System Name: SNOMED CT
Supporting Definition:		RV Systolic Pressure The maximum pressure exerted into the systemic arterial circulation during the contraction of the right ventricle of the heart Source: NCI EVS	Short Name: F_RVSP Missing Data: Report Harvested: Yes (TTVP) Is Identifier: No Is Base Element: No Is Followup Element: Yes Data Type: PQ Precision: 3,0 Selection Type: Single Unit of Measure: mm[Hg] Default Value: Null Usual Range: 15 - 30 mm[Hg] Valid Range: 1 - 200 mm[Hg] Data Source: User
			Parent/Child Validation
			Element: 13492 Echocardiogram Performed Operator: Equal Value: Transthoracic Echo (TTE)
			Element: 13492 Echocardiogram Performed Operator: Equal Value: Transesophageal Echocardiogram (TEE)
			----- AND -----
			Element: 13705 Transcatheter Valve Therapy Reference Procedure Type Operator: Equal Value: Tricuspid Valve Procedure
			----- AND -----
			Element: 14554 Right Ventricular Systolic Pressure Not Documented Operator: Equal Value: No (or Not Answered)



Section: Follow-Up TV Imaging

Parent: Follow-Up Echocardiogram

Element: 14554		Right Ventricular Systolic Pressure Not Documented	Technical Specification
Coding Instruction:		Indicate if the right ventricular systolic pressure was not documented.	Code: 276772001
Target Value:		N/A	Code System Name: SNOMED CT
Supporting Definition:		RV Systolic Pressure	Short Name: F_RVSPND
		The maximum pressure exerted into the systemic arterial circulation during the contraction of the right ventricle of the heart	Missing Data: Report
		Source: NCI EVS	Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: No
			Is Followup Element: Yes
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 13492 Echocardiogram Performed
			Operator: Equal
			Value: Transthoracic Echo (TTE)
			Element: 13492 Echocardiogram Performed
			Operator: Equal
			Value: Transesophageal Echocardiogram (TEE)
			----- AND -----
			Element: 13705 Transcatheter Valve Therapy
			Reference Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure



Section: Follow-Up TV Regurgitation

Parent: Follow-Up Echocardiogram

Element: 13678 Tricuspid Valve Regurgitation		Technical Specification
Coding Instruction: Indicate the severity of tricuspid regurgitation. If mild-moderate is documented, code as mild. If moderate-severe is documented, code as moderate.		Code: 111287006 Code System Name: SNOMED CT Short Name: F_Post_TR Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TTVP) Is Identifier: No Is Base Element: No Is Followup Element: Yes Data Type: CD Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
		Parent/Child Validation
		Element: 13492 Echocardiogram Performed Operator: Equal Value: Transthoracic Echo (TTE) Element: 13492 Echocardiogram Performed Operator: Equal Value: Transesophageal Echocardiogram (TEE) ----- AND ----- Element: 13705 Transcatheter Valve Therapy Reference Procedure Type Operator: Equal Value: Tricuspid Valve Procedure Element: 13705 Transcatheter Valve Therapy Reference Procedure Type Operator: Equal Value: TMVR Element: 13705 Transcatheter Valve Therapy Reference Procedure Type Operator: Equal Value: TAVR

Valve Regurgitation Severity - 1.3.6.1.4.1.19376.1.4.1.6.5.767

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Trace/Trivial			112000001911	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Follow-Up TV Regurgitation

Parent: Follow-Up Echocardiogram

Element: 14506		Paravalvular Tricuspid Regurgitation	Technical Specification	
Coding Instruction:		Indicate the severity of paravalvular tricuspid regurgitation.	Code: 112000001428	
		Note: If trace/trivial is documented, code "none".	Code System Name: ACC NCDR	
Target Value:		The highest value on follow up	Short Name: F_ParaTR	
			Missing Data: Report	
			Harvested: Yes (TTVP)	
			Is Identifier: No	
			Is Base Element: No	
			Is Followup Element: Yes	
			Data Type: CD	
			Precision:	
			Selection Type: Single	
			Unit of Measure:	
			Default Value: Null	
			Usual Range:	
			Valid Range:	
			Data Source: User	
			Parent/Child Validation	
			Element: 13678 Tricuspid Valve Regurgitation	
			Operator: Equal	
			Value: Mild	
			Element: 13678 Tricuspid Valve Regurgitation	
			Operator: Equal	
			Value: Moderate	
			Element: 13678 Tricuspid Valve Regurgitation	
			Operator: Equal	
			Value: Severe	
			Element: 13678 Tricuspid Valve Regurgitation	
			Operator: Equal	
			Value: Trace/Trivial	
			----- AND -----	
			Element: 14529 Paravalvular Tricuspid Regurgitation Not Documented	
			Operator: Equal	
			Value: No (or Not Answered)	
			----- AND -----	
			Element: 13705 Transcatheter Valve Therapy Reference Procedure Type	
			Operator: Equal	
			Value: Tricuspid Valve Procedure	

Valve Regurgitation Severity 4 - 1.3.6.1.4.1.19376.1.4.1.6.5.768

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Follow-Up TV Regurgitation

Parent: Follow-Up Echocardiogram

Element: 14529		Paravalvular Tricuspid Regurgitation Not Documented	Technical Specification
Coding Instruction:		Indicate if the severity of paravalvular tricuspid regurgitation was not documented.	Code: 112000001428
Target Value:		N/A	Code System: ACC NCDR
			Name: F_ParaTRND
			Short Name: F_ParaTRND
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: No
			Is Followup Element: Yes
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
Element: 13678		Tricuspid Valve Regurgitation	
Operator: Equal		Value: Mild	
Element: 13678		Tricuspid Valve Regurgitation	
Operator: Equal		Value: Moderate	
Element: 13678		Tricuspid Valve Regurgitation	
Operator: Equal		Value: Severe	
Element: 13678		Tricuspid Valve Regurgitation	
Operator: Equal		Value: Trace/Trivial	
----- AND -----			
Element: 13705		Transcatheter Valve Therapy Reference Procedure Type	
Operator: Equal		Value: Tricuspid Valve Procedure	



Section: Follow-Up TV Regurgitation

Parent: Follow-Up Echocardiogram

Element: 14502 Central Tricuspid Regurgitation		Technical Specification
Coding Instruction: Indicate the severity of central tricuspid regurgitation.		Code: 112000001433
Note: If trace/trivial is documented, code "none".		Code System Name: ACC NCDR
Target Value: The highest value on follow up		Short Name: F_CenTR
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13678	Tricuspid Valve Regurgitation	
Operator: Equal		
Value: Mild		
Element: 13678	Tricuspid Valve Regurgitation	
Operator: Equal		
Value: Moderate		
Element: 13678	Tricuspid Valve Regurgitation	
Operator: Equal		
Value: Severe		
Element: 13678	Tricuspid Valve Regurgitation	
Operator: Equal		
Value: Trace/Trivial		
----- AND -----		
Element: 14492	Central Tricuspid Regurgitation Not Documented	
Operator: Equal		
Value: No (or Not Answered)		
----- AND -----		
Element: 13705	Transcatheter Valve Therapy Reference Procedure Type	
Operator: Equal		
Value: Tricuspid Valve Procedure		

Valve Regurgitation Severity 4 - 1.3.6.1.4.1.19376.1.4.1.6.5.768

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Follow-Up TV Regurgitation

Parent: Follow-Up Echocardiogram

Element: 14492		Central Tricuspid Regurgitation Not Documented	Technical Specification
Coding Instruction:		Indicate if central tricuspid regurgitation was not documented.	Code: 111287006
Target Value:		N/A	Code System: SNOMED CT
			Name: F_CenTRND
			Short Name: F_CenTRND
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: No
			Is Followup Element: Yes
			Data Type: BL
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
Element: 13705		Transcatheter Valve Therapy	Reference Procedure Type
Operator: Equal		Value: Tricuspid Valve Procedure	
----- AND -----			
Element: 13678		Tricuspid Valve Regurgitation	
Operator: Equal		Value: Mild	
Element: 13678		Tricuspid Valve Regurgitation	
Operator: Equal		Value: Moderate	
Element: 13678		Tricuspid Valve Regurgitation	
Operator: Equal		Value: Severe	
Element: 13678		Tricuspid Valve Regurgitation	
Operator: Equal		Value: Trace/Trivial	



Section: Follow-Up 4DCTA

Parent: Follow Up

Element: 13692 4D Computed Tomography Performed

Coding Instruction: Indicate if a 4D CT was performed.

Target Value: The value on Follow-up

Technical Specification

Code: 241547009

Code System Name: SNOMED CT

Short Name: F_4DCT

Missing Data: Report

Harvested: Yes (BDS, TAVR, TMVR, TTVP)

Is Identifier: No

Is Base Element: No

Is Followup Element: Yes

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: TAVR

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: TMVR

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: Tricuspid Valve Procedure

Element: 13693 4D Computed Tomography Date

Coding Instruction: Indicate the date the 4D CT was performed.

Target Value: The value on Follow-up

Technical Specification

Code: 241547009

Code System Name: SNOMED CT

Short Name: F_4DCTdate

Missing Data: Report

Harvested: Yes (BDS, TAVR, TMVR, TTVP)

Is Identifier: No

Is Base Element: No

Is Followup Element: Yes

Data Type: DT

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 13692 4D Computed Tomography
Performed

Operator: Equal

Value: Yes



Section: Follow-Up 4DCTA

Parent: Follow Up

Element: 13694 Valve Thrombosis		Technical Specification
Coding Instruction: Indicate if there was findings of thrombus on the prosthetic valve.		Code: 112000001917
Target Value: The value on Follow-up		Code System Name: ACC NCDR
		Short Name: F_VThromb
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13692 4D Computed Tomography Performed
		Operator: Equal
		Value: Yes

Element: 13695 Leaflet Dysfunction Noted		Technical Specification
Coding Instruction: Indicate if leaflet dysfunction was noted. Leaflet dysfunction is evident when there is a finding of "stuck leaflets" on the prosthetic valve.		Code: 112000001409
Target Value: The value on Follow-up		Code System Name: ACC NCDR
		Short Name: F_LeafDysFx
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 13692 4D Computed Tomography Performed
		Operator: Equal
		Value: Yes



Section: Follow-Up Six Minute Walk Test

Parent: Follow Up

Element: 13789 Six Minute Walk Test		Technical Specification
Coding Instruction: Indicate whether a six minute walk test was performed.		Code: 252478000
Target Value: The value on Follow-up		Code System Name: SNOMED CT
		Short Name: F_SixMinWalkPerf
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13705	Transcatheter Valve Therapy	
Reference Procedure Type		
Operator: Equal		
Value: TMVR		
Element: 13705	Transcatheter Valve Therapy	
Reference Procedure Type		
Operator: Equal		
Value: Tricuspid Valve Procedure		
Element: 13705	Transcatheter Valve Therapy	
Reference Procedure Type		
Operator: Equal		
Value: TMVr		

Element: 14263 Six Minute Walk Test Reason Not Performed		Technical Specification
Coding Instruction: Indicate the reason the six minute walk test was not performed.		Code: 252478000
Target Value: The value on Follow-up		Code System Name: SNOMED CT
		Short Name: F_SixMinWalkPerfReason
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13789	Six Minute Walk Test	
Operator: Equal		
Value: No		

Six Minute Walk Test Reason Not Performed - 1.3.6.1.4.1.19376.1.4.1.6.5.544

Selection	Definition	Source	Code	Code System Name
Non-Cardiac Reason			112000001418	ACC NCDR
Cardiac Reason			112000001419	ACC NCDR
Patient Not Willing to Walk			112000001420	ACC NCDR
Not Performed by Site			112000001421	ACC NCDR



Section: Follow-Up Six Minute Walk Test

Parent: Follow Up

Element: 13790		Six Minute Walk Test Date	Technical Specification
Coding Instruction:		Indicate the date the six minute walk test was performed.	Code: 252478000
Target Value:		The value on Follow-up	Code System Name: SNOMED CT
			Short Name: F_SixMinWalkDate
			Missing Data: Report
			Harvested: Yes (TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: No
			Is Followup Element: Yes
			Data Type: DT
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
Element: 13789			Six Minute Walk Test
Operator:			Equal
Value:			Yes

Element: 14325		Six Minute Walk Test Total Distance	Technical Specification
Coding Instruction:		Indicate the total distance, in feet, the patient walked.	Code: 112000001422
Target Value:		The value on Follow-up	Code System Name: ACC NCDR
			Short Name: F_SixMinWalkDist
			Missing Data: Report
			Harvested: Yes (TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: No
			Is Followup Element: Yes
			Data Type: PQ
			Precision: 4,0
			Selection Type: Single
			Unit of Measure: ft
			Default Value: Null
			Usual Range: 1 - 3,000 ft
			Valid Range: 1 - 3,000 ft
			Data Source: User
			Parent/Child Validation
Element: 13789			Six Minute Walk Test
Operator:			Equal
Value:			Yes



Section: Follow-Up KCCQ

Parent: Follow Up

Element: 13845		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Performed		
Coding Instruction: Indicate if the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed.		Code: 112000001540
Target Value: The value on Follow-up		Code System Name: ACC NCDR
		Short Name: F_KCCQ12_Performed
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Element: 13844		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Date		
Coding Instruction: Indicate the date the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed.		Code: 112000001540
Target Value: The value on Follow-up		Code System Name: ACC NCDR
		Short Name: F_KCCQ12_Date
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: DT
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Parent/Child Validation	
Element: 13845	Kansas City Cardiomyopathy Questionnaire 12 Performed
Operator: Equal	
Value: Yes	



Section: Follow-Up KCCQ

Parent: Follow Up

Element: 13847		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 1a		Code: 112000001541
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 1a.	Code System Name: ACC NCDR
	Heart Failure Limitation - Showering/bathing	Short Name: F_KCCQ12_1a
Target Value:	The value on Follow-up	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13845 Kansas City Cardiomyopathy Questionnaire 12 Performed		
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 1a thru 1c - 1.3.6.1.4.1.19376.1.4.1.6.5.570

Selection	Definition	Source	Code	Code System Name
1 - Extremely Limited			100001173	ACC NCDR
2 - Quite a Bit Limited			100001171	ACC NCDR
3 - Moderately Limited			100001170	ACC NCDR
4 - Slightly Limited			100014042	ACC NCDR
5 - Not at All Limited			100001167	ACC NCDR
6 - Limited for Other Reasons or Did Not Do These Activities			100014041	ACC NCDR



Section: Follow-Up KCCQ

Parent: Follow Up

Element: 13869		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 1b		Code: 112000001542
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 1b.	Code System Name: ACC NCDR
	Heart Failure Limitation - Walking 1 block on level ground	Short Name: F_KCCQ12_1b
Target Value:	The value on Follow-up	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13845 Kansas City Cardiomyopathy Questionnaire 12 Performed		
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 1a thru 1c - 1.3.6.1.4.1.19376.1.4.1.6.5.570

Selection	Definition	Source	Code	Code System Name
1 - Extremely Limited			100001173	ACC NCDR
2 - Quite a Bit Limited			100001171	ACC NCDR
3 - Moderately Limited			100001170	ACC NCDR
4 - Slightly Limited			100014042	ACC NCDR
5 - Not at All Limited			100001167	ACC NCDR
6 - Limited for Other Reasons or Did Not Do These Activities			100014041	ACC NCDR



Section: Follow-Up KCCQ

Parent: Follow Up

Element: 13850		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 1c		Code: 112000001543
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 1c.	Code System Name: ACC NCDR
	Heart Failure Limitation - Hurrying or jogging	Short Name: F_KCCQ12_1c
Target Value:	The value on Follow-up	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13845 Kansas City Cardiomyopathy Questionnaire 12 Performed		
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 1a thru 1c - 1.3.6.1.4.1.19376.1.4.1.6.5.570

Selection	Definition	Source	Code	Code System Name
1 - Extremely Limited			100001173	ACC NCDR
2 - Quite a Bit Limited			100001171	ACC NCDR
3 - Moderately Limited			100001170	ACC NCDR
4 - Slightly Limited			100014042	ACC NCDR
5 - Not at All Limited			100001167	ACC NCDR
6 - Limited for Other Reasons or Did Not Do These Activities			100014041	ACC NCDR



Section: Follow-Up KCCQ

Parent: Follow Up

Element: 13852		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 2		Code: 112000001544
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 2.	Code System Name: ACC NCDR
	Symptom Frequency - swelling in legs	Short Name: F_KCCQ12_2
Target Value:	The value on Follow-up	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13845 Kansas City Cardiomyopathy Questionnaire 12 Performed		
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 12 Answer to Question 2 - 1.3.6.1.4.1.19376.1.4.1.6.5.571

Selection	Definition	Source	Code	Code System Name
1 - Every Morning			112000001553	ACC NCDR
2 - Three or More Times Per Week But Not Everyday			112000001554	ACC NCDR
3 - One to Two Times Per Week			112000001555	ACC NCDR
4 - Less Than Once a Week			112000001556	ACC NCDR
5 - Never Over the Past Two Weeks			112000001557	ACC NCDR



Section: Follow-Up KCCQ

Parent: Follow Up

Element: 13854		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 3		Code: 112000001545
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 3.	Code System Name: ACC NCDR
	Symptom Frequency - fatigue	Short Name: F_KCCQ12_3
Target Value:	The value on Follow-up	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13845 Kansas City Cardiomyopathy Questionnaire 12 Performed		
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 12 Answer to Question 3 and 4 - 1.3.6.1.4.1.19376.1.4.1.6.5.572

Selection	Definition	Source	Code	Code System Name
1 - All the Time			112000001818	ACC NCDR
2 - Several Times Per Day			112000001559	ACC NCDR
3 - At Least Once Per Day			112000001560	ACC NCDR
4 - Three or More Times Per Week But Not Everyday			112000001554	ACC NCDR
5 - One to Two Times Per Week			112000001555	ACC NCDR
6 - Less Than Once a Week			112000001556	ACC NCDR
7 - Never Over the Past Two Weeks			112000001557	ACC NCDR



Section: Follow-Up KCCQ

Parent: Follow Up

Element: 13856		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 4		Code: 112000001546
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 4.	Code System Name: ACC NCDR
	Symptom Frequency - shortness of breath	Short Name: F_KCCQ12_4
Target Value:	The value on Follow-up	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13845 Kansas City Cardiomyopathy Questionnaire 12 Performed		
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 12 Answer to Question 3 and 4 - 1.3.6.1.4.1.19376.1.4.1.6.5.572

Selection	Definition	Source	Code	Code System Name
1 - All the Time			112000001818	ACC NCDR
2 - Several Times Per Day			112000001559	ACC NCDR
3 - At Least Once Per Day			112000001560	ACC NCDR
4 - Three or More Times Per Week But Not Everyday			112000001554	ACC NCDR
5 - One to Two Times Per Week			112000001555	ACC NCDR
6 - Less Than Once a Week			112000001556	ACC NCDR
7 - Never Over the Past Two Weeks			112000001557	ACC NCDR



Section: Follow-Up KCCQ

Parent: Follow Up

Element: 13858		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 5		Code: 112000001547
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 5.	Code System Name: ACC NCDR
	Symptom Frequency - sleep sitting up due to shortness of breath	Short Name: F_KCCQ12_5
Target Value:	The value on Follow-up	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13845 Kansas City Cardiomyopathy Questionnaire 12 Performed		
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 12 Answer to Question 5 - 1.3.6.1.4.1.19376.1.4.1.6.5.704

Selection	Definition	Source	Code	Code System Name
1 - Every Night			112000001819	ACC NCDR
2 - Three or More Times Per Week But Not Everyday			112000001554	ACC NCDR
3 - One to Two Times Per Week			112000001555	ACC NCDR
4 - Less Than Once a Week			112000001556	ACC NCDR
5 - Never Over the Past Two Weeks			112000001557	ACC NCDR



Section: Follow-Up KCCQ

Parent: Follow Up

Element: 13860		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 6		Code: 112000001548
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 6.	Code System Name: ACC NCDR
	Quality of Life - effect on enjoyment of life due to heart failure	Short Name: F_KCCQ12_6
Target Value:	The value on Follow-up	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13845 Kansas City Cardiomyopathy Questionnaire 12 Performed		
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 12 Answer to Question 6 - 1.3.6.1.4.1.19376.1.4.1.6.5.573

Selection	Definition	Source	Code	Code System Name
1 - It Has Extremely Limited My Enjoyment of Life			100014049	ACC NCDR
2 - It Has Limited My Enjoyment of Life Quite a Bit			100014050	ACC NCDR
3 - It Has Moderately Limited My Enjoyment of Life			100014051	ACC NCDR
4 - It Has Slightly Limited My Enjoyment of Life			100014052	ACC NCDR
5 - It Has Not Limited My Enjoyment of Life at All			100014053	ACC NCDR



Section: Follow-Up KCCQ

Parent: Follow Up

Element: 13862		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 7		Code: 112000001549
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 7.	Code System Name: ACC NCDR
	Quality of life - remaining life with heart failure	Short Name: F_KCCQ12_7
Target Value:	The value on Follow-up	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13845 Kansas City Cardiomyopathy Questionnaire 12 Performed		
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 12 Answer to Question 7 - 1.3.6.1.4.1.19376.1.4.1.6.5.574

Selection	Definition	Source	Code	Code System Name
1 - Not At All Satisfied			112000001561	ACC NCDR
2 - Mostly Dissatisfied			112000001562	ACC NCDR
3 - Somewhat Satisfied			112000001563	ACC NCDR
4 - Mostly Satisfied			112000001564	ACC NCDR
5 - Completely Satisfied			112000001565	ACC NCDR



Section: Follow-Up KCCQ

Parent: Follow Up

Element: 13864		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 8a		Code: 112000001550
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 8a.	Code System Name: ACC NCDR
	Social limitation - hobbies, recreational activities	Short Name: F_KCCQ12_8a
Target Value:	The value on Follow-up	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13845 Kansas City Cardiomyopathy Questionnaire 12 Performed		
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 12 Answer to Question 8 - 1.3.6.1.4.1.19376.1.4.1.6.5.575

Selection	Definition	Source	Code	Code System Name
1 - Severely Limited			112000001566	ACC NCDR
2 - Limited Quite a Bit			112000001567	ACC NCDR
3 - Moderately Limited			100001170	ACC NCDR
4 - Slightly Limited			100014042	ACC NCDR
5 - Did Not Limit at All			112000001569	ACC NCDR
6 - Does Not Apply or Did Not Do for Other Reasons			112000001570	ACC NCDR



Section: Follow-Up KCCQ

Parent: Follow Up

Element: 13866		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 8b		Code: 112000001551
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 8b.	Code System Name: ACC NCDR
	Social limitation - working or doing household chores	Short Name: F_KCCQ12_8b
Target Value:	The value on Follow-up	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13845 Kansas City Cardiomyopathy Questionnaire 12 Performed		
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 12 Answer to Question 8 - 1.3.6.1.4.1.19376.1.4.1.6.5.575

Selection	Definition	Source	Code	Code System Name
1 - Severely Limited			112000001566	ACC NCDR
2 - Limited Quite a Bit			112000001567	ACC NCDR
3 - Moderately Limited			100001170	ACC NCDR
4 - Slightly Limited			100014042	ACC NCDR
5 - Did Not Limit at All			112000001569	ACC NCDR
6 - Does Not Apply or Did Not Do for Other Reasons			112000001570	ACC NCDR



Section: Follow-Up KCCQ

Parent: Follow Up

Element: 13868		Technical Specification
Kansas City Cardiomyopathy Questionnaire 12 Question 8c		Code: 112000001552
Coding Instruction:	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 8c.	Code System Name: ACC NCDR
	Social limitation - visiting family or friends	Short Name: F_KCCQ12_8c
Target Value:	The value on Follow-up	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 13845 Kansas City Cardiomyopathy Questionnaire 12 Performed		
Operator: Equal		
Value: Yes		

Kansas City Cardiomyopathy Questionnaire 12 Answer to Question 8 - 1.3.6.1.4.1.19376.1.4.1.6.5.575

Selection	Definition	Source	Code	Code System Name
1 - Severely Limited			112000001566	ACC NCDR
2 - Limited Quite a Bit			112000001567	ACC NCDR
3 - Moderately Limited			100001170	ACC NCDR
4 - Slightly Limited			100014042	ACC NCDR
5 - Did Not Limit at All			112000001569	ACC NCDR
6 - Does Not Apply or Did Not Do for Other Reasons			112000001570	ACC NCDR

Element: 14535		Technical Specification
Follow-Up KCCQ Overall Summary Score		Code: 112000001540
Coding Instruction:	(Auto Calculated) This field is auto-populated by your application. Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Overall Summary Score.	Code System Name: ACC NCDR
	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.	Short Name: F_KCCQ12_Overall
Target Value:	The value on Follow-up	Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: NUM
		Precision: 5,2
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: Computed
Parent/Child Validation		
Element: 13845 Kansas City Cardiomyopathy Questionnaire 12 Performed		
Operator: Equal		
Value: Yes		



Section: Follow-Up Events

Parent: Follow Up

Element: 12933	Follow-up Event Name	Technical Specification
Coding Instruction:	Select from the list all of the clinical conditions, procedures, or re-admissions that occurred in the follow-up period	Code: 112000000795
Target Value:	N/A	Code System Name: ACC NCDR
Vendor Instruction:	A Follow-up - combination Name (12933), Occurred (14276) and Date (14277) - may only be entered/selected once	Short Name: F_Condition_Event
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single (Dynamic List)
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User

Follow Up Events - 1.3.6.1.4.1.19376.1.4.1.6.5.356

Selection	Definition	Source	Code	Code System Name
ASD Defect Closure due to Transseptal Catheterization	A procedure was required to close an atrial-septal defect as a result of the transseptal catheterization procedure.		112000001885	ACC NCDR
Atrial Fibrillation	Atrial fibrillation or flutter requiring treatment or prolonged hospitalization. Treatment includes initiation of a NEW/DIFFERENT medication therapy to address the arrhythmia; or a procedure/intervention to address the arrhythmia (cardioversion, permanent pacemaker/defibrillator, ablation, etc.).		49436004	SNOMED CT
Bleeding - Life Threatening	Life threatening or disabling bleeding is defined as: 1. Fatal bleeding OR 2. Bleeding in a critical area or organ, such as intracranial, intraspinal, intraocular, or pericardial necessitating pericardiocentesis, or intramuscular with compartment syndrome OR 3. Bleeding causing hypovolemic shock or severe hypotension requiring vasopressors or surgery OR 4. Overt source of bleeding with drop in hemoglobin of ≥ 5 g/dl or whole blood or packed red blood cells (RBCs) transfusion ≥ 4 U.	Source: Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation Clinical Trials (JACC, 2011, vol 57, No 3)	112000000459	ACC NCDR
Bleeding - Major	A major bleeding event, based on the 'Bleeding Academic Research Consortium' or BARC type 3a criteria is defined as : 1. Overt bleeding that is either associated with a drop in the hemoglobin level of at least 3.0 g/dL or requiring transfusion of 2 or 3 units of whole blood/RBC, or causing hospitalization or permanent injury, or requiring surgery AND 2. Does not meet VARC criteria of life-threatening or disabling bleeding.	Updated Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation (JACC, 2012, Vol 60, No 15)	112000001889	ACC NCDR
Cardiac Surgery or Intervention - Other Unplanned	The patient subsequently underwent cardiac surgery or a cath lab intervention that was unplanned. This does not include an intervention or procedure already identified as an adverse event in the TVT Registry (e.g. AV reintervention, other vascular surgery or intervention, pacemaker or ICD implant).		112000001892	ACC NCDR
Complete Leaflet Clip Detachment	A complete detachment of the leaflet clip from the valve leaflets occurred		112000001840	ACC NCDR
COVID-19 Positive	The patient had a diagnosis of COVID-19, confirmed with a laboratory performed polymerase chain reaction (PCR) test.		112000001982	ACC NCDR
	Notes: It is acceptable to code the diagnosis of COVID-19 based on testing that was NOT performed at your facility if it is accompanied by appropriate documentation in the medical record by the provider.			



Section: Follow-Up Events		Parent: Follow Up		
	Code no if documentation ONLY included antibody testing (IgG).			
Deep Vein Thrombosis	Deep vein thrombosis (DVT) refers to the formation of one or more blood clots (a blood clot is also known as a 'thrombus,' while multiple clots are called 'thrombi') in one of the body's large veins, most commonly in the lower limbs (e.g., lower leg or calf)	Office of the Surgeon General. (2008). The surgeon general's call to action to prevent deep vein thrombosis and pulmonary embolism. Retrieved from https://www.ncbi.nlm.nih.gov/books/NBK44184/	128053003	SNOMED CT
Device Embolization	The device became displaced from its initial implantation site so that it is no longer in its original position.		112000001324	ACC NCDR
Device Fracture	Partial or complete separation of any portion of the valve frame fractured into two or more parts.		112000001891	ACC NCDR
Device Migration	Do not code this event when there was a planned bioprosthetic valve fracture (BVF) on a previously implanted bioprosthetic valve during the lab visit. Device migration of the prosthetic valve is x-ray confirmed movement of the valve from its initial implantation site such that there is a change in valve orientation within the aortic outflow track resulting in a new echocardiographic confirmed flow disturbance (pre- and post- filmed documentation). Note: Code device embolization if the device is outside of the outflow tract.		370512004	SNOMED CT
Device Thrombosis	Any thrombus attached to or near the valve that was implanted during the procedure that occludes part of the blood flow path, interferes with valve function, or is sufficiently large to warrant treatment.	Updated Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation (JACC, 2012, Vol 60, No 15)	112000001839	ACC NCDR
Device Related Event - Other	Indicate if an otherwise unspecified device-related event requiring unanticipated treatment occurred. This includes any delivery system related event.		112000001828	ACC NCDR
Dialysis (New Requirement)	Acute or worsening renal failure necessitating a new requirement for renal dialysis (renal dialysis includes hemodialysis and peritoneal dialysis). If a patient is on receiving continuous veno-venous hemofiltration (CVVH) as a result of renal failure (and not as treatment to remove fluid for heart failure), code yes.		100014076	ACC NCDR
Endocarditis	Confirmed diagnosis of endocarditis by blood culture and/or vegetation on or around a heart valve. This may include native tissue, ring or prosthetic valve involvement.	Society of Thoracic Surgeons (STS)	56819008	SNOMED CT
ICD	The patient developed a new dysrhythmia requiring insertion of an implantable cardioverter/defibrillator.		ACC-NCDR-ICD	ACC NCDR
Myocardial Infarction	A myocardial infarction (MI) is defined as an acute ischemic event that is associated with documented and clinically significant myocardial necrosis. The MI can be periprocedural (<72 hours after the procedure) or spontaneous (>72 hours after the index procedure). 1. Peri-procedural MI (<72 h after the index procedure) (a) New ischemic symptoms (e.g. chest pain or shortness of breath), or new ischemic signs (e.g. ventricular arrhythmias, new or worsening heart failure, new ST-segment changes, hemodynamic instability, new pathological Q waves in at least two contiguous leads, imaging evidence of new loss of viable myocardium or new wall motion abnormality) AND (b) Elevated cardiac biomarkers (preferable CK-MB) within 72 h after the index procedure, consisting of at least one sample post-procedure with a peak value exceeding 15 x as the upper reference limit for troponin or 5 x for CK-MB.* If cardiac biomarkers are increased at baseline (>99th percentile), a further increase in at least 50% post-procedure is required AND the peak value must exceed the previously stated limit. 2. Spontaneous MI (≥72 h after the index procedure) any one of the following criteria: (a) Detection of rise and/or fall of cardiac biomarkers (preferably troponin) with at least one value above the 99th percentile URL, together with the	Updated Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation Clinical Trials (JACC, 2012, vol 60, No 15)	22298006	SNOMED CT



Section: Follow-Up Events

Parent: Follow Up

	evidence of myocardial ischemia with at least one of the following: -Symptoms of ischemia -ECG changes indicative of new ischemia [new ST-T changes or new left bundle branch block (LBBB)] -New pathological Q-waves in at least two contiguous leads -Imaging evidence of a new loss of viable myocardium or new wall motion abnormality (b) Sudden, unexpected cardiac death, involving cardiac arrest, often with symptoms suggestive of myocardial ischemia, and accompanied by presumably new ST elevation, or new LBBB, and/or evidence of fresh thrombus by coronary angiography and/or at autopsy, but death occurring before blood samples could be obtained, or at a time before the appearance of cardiac biomarkers in the blood. (c) Pathological findings of an acute myocardial infarction.			
PCI	A 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.	National Cardiovascular Data Registry (NCDR)	415070008	SNOMED CT
Permanent Pacemaker	The patient developed a new dysrhythmia requiring insertion of a permanent pacemaker.		449397007	SNOMED CT
Pulmonary Embolism	Intravascular migration of a venous thrombus to the pulmonary arterial circulation. A 'Proved Pulmonary Embolism' is proved by a positive pulmonary angiogram, an unequivocally positive helical CT scan, a high-probability ventilation-perfusion scan, or autopsy.	Banovac, F., et al. Reporting Standards for Endovascular Treatment of Pulmonary Embolism. Journal of Vascular Interventional Radiology 2010; 21:44-53	59282003	SNOMED CT
Readmission - (Non-Valve Related)	The patient has been readmitted to an acute care facility after discharge for a non-valve related reason.		112000001895	ACC NCDR
Readmission (Valve Related)	The patient has been readmitted to an acute care facility after discharge for a valve-related reason.		112000001894	ACC NCDR
Readmission - Cardiac (Not Heart Failure)	The patient has been readmitted to an acute care facility after discharge with a cardiac diagnosis (where the primary diagnosis is NOT heart failure).		112000001897	ACC NCDR
Readmission - Heart Failure	The patient has been readmitted to an acute care facility after discharge for the procedure with a diagnosis of heart failure.		112000001896	ACC NCDR
	The following criteria must be met for an event to be characterized as a heart failure readmission: 1. Hospitalization >=24 hours (including emergency room stay); 2. Clinical signs and/or symptoms of heart failure (including, but not limited to, new or worsening dyspnea, orthopnea, paroxysmal nocturnal dyspnea, increasing fatigue, worsening functional capacity or activity intolerance, or signs and/or symptoms of volume overload.); 3. Intravenous (e.g. diuretic or vasoactive therapy) or invasive (e.g., ultrafiltration, IABP, mechanical assistance) treatment for heart failure.			
Readmission - Non-Cardiac	The patient has been readmitted to an acute care facility after discharge for a non-cardiac related diagnosis or procedure.		112000001898	ACC NCDR
Reintervention - Aortic Valve	The patient returned to the operating room or cath lab for any aortic valve re-intervention.		112000001827	ACC NCDR
	Note: Please complete adjudication worksheet for every documented aortic valve reintervention, regardless of type of reintervention.			
Reintervention - Mitral Valve	The patient returned to the operating room or cath lab for any mitral valve re-intervention.		112000001893	ACC NCDR
	Note: Please complete adjudication worksheet for every documented mitral valve reintervention, regardless of type of reintervention.			
Reintervention - Tricuspid Valve	The patient returned to the operating room or cath lab for any tricuspid valve re-intervention.		112000001820	ACC NCDR
	Note: Please complete adjudication worksheet for			



Section: Follow-Up Events		Parent: Follow Up		
	every documented tricuspid valve reintervention, regardless of type of reintervention.			
Single Leaflet Device Attachment	Single leaflet device attachment was documented in the medical record.		112000001538	ACC NCDR
Stroke - Ischemic	An ischemic stroke is an acute episode of focal or global neurological dysfunction caused by brain, spinal cord, or retinal vascular injury as a result of infarction of central nervous system tissue.	Hicks KA, Tchong JE, Bozkurt B, et al. 2014 ACC/AHA Key Data Elements and Definitions for Cardiovascular Endpoint Events in Clinical Trials: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Data Standards (Writing Committee to Develop Cardiovascular Endpoints Data Standards). J Am Coll Cardiol. 2015;66(4):403-469. doi:10.1016/j.jacc.2014.12.018.	422504002	SNOMED CT
Stroke - Hemorrhagic	Hemorrhage may be a consequence of ischemic stroke. In this situation, the stroke is an ischemic stroke with hemorrhagic transformation and not a hemorrhagic stroke. Hemorrhagic stroke is defined as an acute episode of focal or global cerebral or spinal dysfunction caused by intraparenchymal, intraventricular, or subarachnoid hemorrhage. Note: Subdural hematomas are intracranial hemorrhagic events and not strokes.		230706003	SNOMED CT
Stroke - Undetermined	A stroke of undetermined origin is defined as an acute episode of focal or global neurological dysfunction caused by presumed brain, spinal cord, or retinal vascular injury as a result of hemorrhage or infarction but with insufficient information to allow categorization as ischemic or hemorrhagic.	Hicks KA, Tchong JE, Bozkurt B, et al. 2014 ACC/AHA Key Data Elements and Definitions for Cardiovascular Endpoint Events in Clinical Trials: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Data Standards (Writing Committee to Develop Cardiovascular Endpoints Data Standards). J Am Coll Cardiol. 2015;66(4):403-469. doi:10.1016/j.jacc.2014.12.018.	230713003	SNOMED CT
Transient Ischemic Attack (TIA)	A transient episode of focal neurological dysfunction caused by brain, spinal cord, or retinal ischemia, without acute infarction, where the neurological dysfunction resolves within 24 hours.	Society for Thoracic Surgeons (STS)	266257000	SNOMED CT
Vascular Complication - Major	Major vascular complications include any of the following: 1. Any aortic dissection, aortic rupture, annulus rupture, left ventricle perforation, or new apical aneurysm/pseudo-aneurysm; 2. Access site or access-related vascular injury (dissection, stenosis, perforation, rupture, arteriovenous fistula, pseudoaneurysm, hematoma, irreversible nerve injury, compartment syndrome, percutaneous closure device failure) leading to death, life threatening or major bleeding*, visceral ischemia or neurological impairment; 3. Distal embolization (non-cerebral) from a vascular source requiring surgery or resulting in amputation or irreversible end-organ damage; 4. The use of unplanned endovascular or surgical intervention associated with death, major bleeding, visceral ischemia or neurological impairment; 5. Any new ischemia documented by patient symptoms, physical exam, and/or decreased or absent blood flow on lower extremity angiogram; 6. Surgery for access site-related nerve injury; 7. Permanent access site-related nerve injury. *Refers to VARC bleeding definitions Note: "ipsilateral lower extremity" was removed from #5 to have the ability to account for ischemia from any access site.	Updated Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation (JACC, 2012, Vol 60, No 15)	112000000460	ACC NCDR
Vascular Complication - Minor	Minor vascular complications include any of the following: 1. Access site or access-related vascular injury (dissection, stenosis, perforation, rupture, arteriovenous fistula, pseudoaneuysms, hematomas, percutaneous closure device failure) not leading to death, life-threatening or major bleeding*, visceral ischemia or neurological impairment; 2. Distal embolization treated with embolectomy and/or thrombectomy and not resulting in amputation or irreversible end-organ damage; 3. Any unplanned endovascular stenting or unplanned surgical intervention not meeting the criteria for a major vascular complication;	Updated Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation (JACC, 2012, Vol 60, No 15)	112000001823	ACC NCDR



Section: Follow-Up Events

Parent: Follow Up

	4. Vascular repair or the need for vascular repair (via surgery, ultrasound-guided compression, transcatheter embolization, or stent-graft). *Refers to VARC bleeding definitions		
Vascular Surgery or Intervention - Unplanned	The patient required unplanned vascular surgery or intervention to correct a bleeding complication or vascular related complication. Note: If a balloon angioplasty of the access site or access related sites is performed as a routine procedure to ensure adequate hemostasis of the site, then this would not qualify as an Unplanned Vascular Surgery or Intervention. However, if a balloon angioplasty is performed in an attempt to treat a bleeding or vascular access complication (i.e. bleeding at access site, dissection, stenosis, narrowing of vessel, etc.), then Unplanned Vascular Surgery or Intervention should be captured.	112000000467	ACC NCDR

Element: 14276	Follow-Up Events Occurred	Technical Specification
Coding Instruction: Indicate if the event occurred. Target Value: Any occurrence on follow-up		Code: 1000142378 Code System Name: ACC NCDR Short Name: FupEvOccurred Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: No Is Followup Element: Yes Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Parent/Child Validation		
Element: 12933 Follow-up Event Name		
Operator:		
Value: Any Value		

Element: 14277	Follow-Up Event Date	Technical Specification
Coding Instruction: Indicate the date the event occurred. Target Value: Any occurrence on follow-up		Code: 1000142379 Code System Name: ACC NCDR Short Name: FupEventDate Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: No Is Followup Element: Yes Data Type: DT Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Parent/Child Validation		
Element: 14276 Follow-Up Events Occurred		
Operator: Equal		
Value: Yes		



Section: Follow-Up Event Information

Parent: Follow Up

Element: 14385		Adjudication Event	Technical Specification	
Coding Instruction:		Indicate the event being adjudicated.	Code:	112000001816
Target Value:		N/A	Code System Name:	ACC NCDR
Vendor Instruction:		An Adjudication - combination Event (14385) and Date (14386) - may only be entered/selected once	Short Name:	F_AJ_AdjudEvent
		The Adjudication Event Date (14386) / Adjudication Event Code (14385) must match with Follow-Up Event Date (14277) / Follow-Up Event Code (12933)	Missing Data:	Report
			Harvested:	Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier:	No
			Is Base Element:	No
			Is Followup Element:	Yes
			Data Type:	CD
			Precision:	
			Selection Type:	Single (Dynamic List)
			Unit of Measure:	
			Default Value:	Null
			Usual Range:	
			Valid Range:	
			Data Source:	User
			Parent/Child Validation	
			Element:	12933 Follow-up Event Name
			Operator:	Equal
			Value:	Readmission - Heart Failure
			Element:	12933 Follow-up Event Name
			Operator:	Equal
			Value:	Transient Ischemic Attack (TIA)
			Element:	12933 Follow-up Event Name
			Operator:	Equal
			Value:	Stroke - Ischemic
			Element:	12933 Follow-up Event Name
			Operator:	Equal
			Value:	Stroke - Hemorrhagic
			Element:	12933 Follow-up Event Name
			Operator:	Equal
			Value:	Stroke - Undetermined
			Element:	12933 Follow-up Event Name
			Operator:	Equal
			Value:	Reintervention - Aortic Valve
			Element:	12933 Follow-up Event Name
			Operator:	Equal
			Value:	Reintervention - Mitral Valve
			Element:	12933 Follow-up Event Name
			Operator:	Equal
			Value:	Reintervention - Tricuspid Valve
			--- AND ---	
			Element:	14276 Follow-Up Events Occurred
			Operator:	Equal
			Value:	Yes

Follow Up Events - 1.3.6.1.4.1.19376.1.4.1.6.5.356

Selection	Definition	Source	Code	Code System Name
ASD Defect Closure due to Transseptal Catheterization	A procedure was required to close an atrial-septal defect as a result of the transseptal catheterization procedure.		112000001885	ACC NCDR
Atrial Fibrillation	Atrial fibrillation or flutter requiring treatment or prolonged hospitalization. Treatment includes initiation of a NEW/DIFFERENT medication therapy to address the arrhythmia; or a procedure/intervention to address the arrhythmia (cardioversion, permanent pacemaker/defibrillator, ablation, etc.).		49436004	SNOMED CT
Bleeding - Life Threatening	Life threatening or disabling bleeding is defined as: 1. Fatal bleeding OR 2. Bleeding in a critical area or organ, such as intracranial, intraspinal, intraocular, or pericardial necessitating pericardiocentesis, or intramuscular with compartment syndrome OR	Source: Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation Clinical Trials (JACC, 2011, vol 57, No 3)	112000000459	ACC NCDR



Section: Follow-Up Event Information		Parent: Follow Up		
	3. Bleeding causing hypovolemic shock or severe hypotension requiring vasopressors or surgery OR 4. Overt source of bleeding with drop in hemoglobin of ≥ 5 g/dl or whole blood or packed red blood cells (RBCs) transfusion ≥ 4 U.			
Bleeding - Major	A major bleeding event, based on the 'Bleeding Academic Research Consortium' or BARC type 3a criteria is defined as : 1. Overt bleeding that is either associated with a drop in the hemoglobin level of at least 3.0 g/dL or requiring transfusion of 2 or 3 units of whole blood/RBC, or causing hospitalization or permanent injury, or requiring surgery AND 2. Does not meet VARC criteria of life-threatening or disabling bleeding.	Updated Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation (JACC, 2012, Vol 60, No 15)	112000001889	ACC NCDR
Cardiac Surgery or Intervention - Other Unplanned	The patient subsequently underwent cardiac surgery or a cath lab intervention that was unplanned. This does not include an intervention or procedure already identified as an adverse event in the TVT Registry (e.g. AV reintervention, other vascular surgery or intervention, pacemaker or ICD implant).		112000001892	ACC NCDR
Complete Leaflet Clip Detachment	A complete detachment of the leaflet clip from the valve leaflets occurred		112000001840	ACC NCDR
COVID-19 Positive	The patient had a diagnosis of COVID-19, confirmed with a laboratory performed polymerase chain reaction (PCR) test. Notes: It is acceptable to code the diagnosis of COVID-19 based on testing that was NOT performed at your facility if it is accompanied by appropriate documentation in the medical record by the provider. Code no if documentation ONLY included antibody testing (IgG).		112000001982	ACC NCDR
Deep Vein Thrombosis	Deep vein thrombosis (DVT) refers to the formation of one or more blood clots (a blood clot is also known as a 'thrombus,' while multiple clots are called 'thrombi') in one of the body's large veins, most commonly in the lower limbs (e.g., lower leg or calf)	Office of the Surgeon General. (2008). The surgeon general's call to action to prevent deep vein thrombosis and pulmonary embolism. Retrieved from https://www.ncbi.nlm.nih.gov/books/NBK44184/	128053003	SNOMED CT
Device Embolization	The device became displaced from its initial implantation site so that it is no longer in its original position.		112000001324	ACC NCDR
Device Fracture	Partial or complete separation of any portion of the valve frame fractured into two or more parts. Do not code this event when there was a planned bioprosthetic valve fracture (BVF) on a previously implanted bioprosthetic valve during the lab visit.		112000001891	ACC NCDR
Device Migration	Device migration of the prosthetic valve is x-ray confirmed movement of the valve from its initial implantation site such that there is a change in valve orientation within the aortic outflow track resulting in a new echocardiographic confirmed flow disturbance (pre- and post- filmed documentation). Note: Code device embolization if the device is outside of the outflow tract.		370512004	SNOMED CT
Device Thrombosis	Any thrombus attached to or near the valve that was implanted during the procedure that occludes part of the blood flow path, interferes with valve function, or is sufficiently large to warrant treatment.	Updated Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation (JACC, 2012, Vol 60, No 15)	112000001839	ACC NCDR
Device Related Event - Other	Indicate if an otherwise unspecified device-related event requiring unanticipated treatment occurred. This includes any delivery system related event.		112000001828	ACC NCDR
Dialysis (New Requirement)	Acute or worsening renal failure necessitating a new requirement for renal dialysis (renal dialysis includes hemodialysis and peritoneal dialysis). If a patient is on receiving continuous veno-venous hemofiltration (CVVH) as a result of renal failure (and not as treatment to remove fluid for heart failure), code yes.		100014076	ACC NCDR
Endocarditis	Confirmed diagnosis of endocarditis by blood culture and/or vegetation on or around a heart valve. This may include native tissue, ring or prosthetic valve involvement.	Society of Thoracic Surgeons (STS)	56819008	SNOMED CT
ICD	The patient developed a new dysrhythmia requiring insertion of an implantable cardioverter/defibrillator.		ACC-NCDR-ICD	ACC NCDR



Section: Follow-Up Event Information		Parent: Follow Up		
Myocardial Infarction	A myocardial infarction (MI) is defined as an acute ischemic event that is associated with documented and clinically significant myocardial necrosis. The MI can be periprocedural (<72 hours after the procedure) or spontaneous (>72 hours after the index procedure). 1. Peri-procedural MI (<72 h after the index procedure) (a) New ischemic symptoms (e.g. chest pain or shortness of breath), or new ischemic signs (e.g. ventricular arrhythmias, new or worsening heart failure, new ST-segment changes, hemodynamic instability, new pathological Q waves in at least two contiguous leads, imaging evidence of new loss of viable myocardium or new wall motion abnormality) AND (b) Elevated cardiac biomarkers (preferable CK-MB) within 72 h after the index procedure, consisting of at least one sample post-procedure with a peak value exceeding 15 x as the upper reference limit for troponin or 5 x for CK-MB.* If cardiac biomarkers are increased at baseline (>99th percentile), a further increase in at least 50% post-procedure is required AND the peak value must exceed the previously stated limit. 2. Spontaneous MI (≥72 h after the index procedure) any one of the following criteria: (a) Detection of rise and/or fall of cardiac biomarkers (preferably troponin) with at least one value above the 99th percentile URL, together with the evidence of myocardial ischemia with at least one of the following: -Symptoms of ischemia -ECG changes indicative of new ischemia [new ST-T changes or new left bundle branch block (LBBB)] -New pathological Q-waves in at least two contiguous leads -Imaging evidence of a new loss of viable myocardium or new wall motion abnormality (b) Sudden, unexpected cardiac death, involving cardiac arrest, often with symptoms suggestive of myocardial ischemia, and accompanied by presumably new ST elevation, or new LBBB, and/or evidence of fresh thrombus by coronary angiography and/or at autopsy, but death occurring before blood samples could be obtained, or at a time before the appearance of cardiac biomarkers in the blood. (c) Pathological findings of an acute myocardial infarction.	Updated Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation Clinical Trials (JACC, 2012, vol 60, No 15)	22298006	SNOMED CT
PCI	A 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.	National Cardiovascular Data Registry (NCDR)	415070008	SNOMED CT
Permanent Pacemaker	The patient developed a new dysrhythmia requiring insertion of a permanent pacemaker.		449397007	SNOMED CT
Pulmonary Embolism	Intravascular migration of a venous thrombus to the pulmonary arterial circulation. A 'Proved Pulmonary Embolism' is proved by a positive pulmonary angiogram, an unequivocally positive helical CT scan, a high-probability ventilation-perfusion scan, or autopsy.	Banovac, F., et al. Reporting Standards for Endovascular Treatment of Pulmonary Embolism. Journal of Vascular Interventional Radiology 2010; 21:44–53	59282003	SNOMED CT
Readmission - (Non-Valve Related)	The patient has been readmitted to an acute care facility after discharge for a non-valve related reason.		112000001895	ACC NCDR
Readmission (Valve Related)	The patient has been readmitted to an acute care facility after discharge for a valve-related reason.		112000001894	ACC NCDR
Readmission - Cardiac (Not Heart Failure)	The patient has been readmitted to an acute care facility after discharge with a cardiac diagnosis (where the primary diagnosis is NOT heart failure).		112000001897	ACC NCDR
Readmission - Heart Failure	The patient has been readmitted to an acute care facility after discharge for the procedure with a diagnosis of heart failure.		112000001896	ACC NCDR



Section: Follow-Up Event Information

Parent: Follow Up

	The following criteria must be met for an event to be characterized as a heart failure readmission: 1. Hospitalization ≥ 24 hours (including emergency room stay); 2. Clinical signs and/or symptoms of heart failure (including, but not limited to, new or worsening dyspnea, orthopnea, paroxysmal nocturnal dyspnea, increasing fatigue, worsening functional capacity or activity intolerance, or signs and/or symptoms of volume overload.); 3. Intravenous (e.g., diuretic or vasoactive therapy) or invasive (e.g., ultrafiltration, IABP, mechanical assistance) treatment for heart failure.		
Readmission - Non-Cardiac	The patient has been readmitted to an acute care facility after discharge for a non-cardiac related diagnosis or procedure.	112000001898	ACC NCDR
Reintervention - Aortic Valve	The patient returned to the operating room or cath lab for any aortic valve re-intervention.	112000001827	ACC NCDR
	Note: Please complete adjudication worksheet for every documented aortic valve reintervention, regardless of type of reintervention.		
Reintervention - Mitral Valve	The patient returned to the operating room or cath lab for any mitral valve re-intervention.	112000001893	ACC NCDR
	Note: Please complete adjudication worksheet for every documented mitral valve reintervention, regardless of type of reintervention.		
Reintervention - Tricuspid Valve	The patient returned to the operating room or cath lab for any tricuspid valve re-intervention.	112000001820	ACC NCDR
	Note: Please complete adjudication worksheet for every documented tricuspid valve reintervention, regardless of type of reintervention.		
Single Leaflet Device Attachment	Single leaflet device attachment was documented in the medical record.	112000001538	ACC NCDR
Stroke - Ischemic	An ischemic stroke is an acute episode of focal or global neurological dysfunction caused by brain, spinal cord, or retinal vascular injury as a result of infarction of central nervous system tissue.	Hicks KA, Tcheng JE, Bozkurt B, et al. 2014 ACC/AHA Key Data Elements and Definitions for Cardiovascular Endpoint Events in Clinical Trials: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Data Standards (Writing Committee to Develop Cardiovascular Endpoints Data Standards). J Am Coll Cardiol. 2015;66(4):403-469. doi:10.1016/j.jacc.2014.12.018.	422504002 SNOMED CT
Stroke - Hemorrhagic	Hemorrhage may be a consequence of ischemic stroke. In this situation, the stroke is an ischemic stroke with hemorrhagic transformation and not a hemorrhagic stroke.	230706003	SNOMED CT
	Hemorrhagic stroke is defined as an acute episode of focal or global cerebral or spinal dysfunction caused by intraparenchymal, intraventricular, or subarachnoid hemorrhage.		
	Note: Subdural hematomas are intracranial hemorrhagic events and not strokes.		
Stroke - Undetermined	A stroke of undetermined origin is defined as an acute episode of focal or global neurological dysfunction caused by presumed brain, spinal cord, or retinal vascular injury as a result of hemorrhage or infarction but with insufficient information to allow categorization as ischemic or hemorrhagic.	Hicks KA, Tcheng JE, Bozkurt B, et al. 2014 ACC/AHA Key Data Elements and Definitions for Cardiovascular Endpoint Events in Clinical Trials: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Data Standards (Writing Committee to Develop Cardiovascular Endpoints Data Standards). J Am Coll Cardiol. 2015;66(4):403-469. doi:10.1016/j.jacc.2014.12.018.	230713003 SNOMED CT
Transient Ischemic Attack (TIA)	A transient episode of focal neurological dysfunction caused by brain, spinal cord, or retinal ischemia, without acute infarction, where the neurological dysfunction resolves within 24 hours.	Society for Thoracic Surgeons (STS)	266257000 SNOMED CT
Vascular Complication - Major	Major vascular complications include any of the following: 1. Any aortic dissection, aortic rupture, annulus rupture, left ventricle perforation, or new apical aneurysm/pseudo-aneurysm; 2. Access site or access-related vascular injury (dissection, stenosis, perforation, rupture, arteriovenous fistula, pseudoaneurysm, hematoma,	Updated Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation (JACC, 2012, Vol 60, No 15)	112000000460 ACC NCDR



Section: Follow-Up Event Information

Parent: Follow Up

irreversible nerve injury, compartment syndrome, percutaneous closure device failure) leading to death, life threatening or major bleeding*, visceral ischemia or neurological impairment;
3. Distal embolization (non-cerebral) from a vascular source requiring surgery or resulting in amputation or irreversible end-organ damage;
4. The use of unplanned endovascular or surgical intervention associated with death, major bleeding, visceral ischemia or neurological impairment;
5. Any new ischemia documented by patient symptoms, physical exam, and/or decreased or absent blood flow on lower extremity angiogram;
6. Surgery for access site-related nerve injury;
7. Permanent access site-related nerve injury.
*Refers to VARC bleeding definitions
Note: "ipsilateral lower extremity" was removed from #5 to have the ability to account for ischemia from any access site.

Vascular Complication - Minor	Minor vascular complications include any of the following: 1. Access site or access-related vascular injury (dissection, stenosis, perforation, rupture, arteriovenous fistula, pseudoaneurysms, hematomas, percutaneous closure device failure) not leading to death, life-threatening or major bleeding*, visceral ischemia or neurological impairment; 2. Distal embolization treated with embolectomy and/or thrombectomy and not resulting in amputation or irreversible end-organ damage; 3. Any unplanned endovascular stenting or unplanned surgical intervention not meeting the criteria for a major vascular complication; 4. Vascular repair or the need for vascular repair (via surgery, ultrasound-guided compression, transcatheter embolization, or stent-graft). *Refers to VARC bleeding definitions	Updated Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation (JACC, 2012, Vol 60, No 15)	112000001823	ACC NCDR
Vascular Surgery or Intervention - Unplanned	The patient required unplanned vascular surgery or intervention to correct a bleeding complication or vascular related complication. Note: If a balloon angioplasty of the access site or access related sites is performed as a routine procedure to ensure adequate hemostasis of the site, then this would not qualify as an Unplanned Vascular Surgery or Intervention. However, if a balloon angioplasty is performed in an attempt to treat a bleeding or vascular access complication (i.e. bleeding at access site, dissection, stenosis, narrowing of vessel, etc.), then Unplanned Vascular Surgery or Intervention should be captured.		112000000467	ACC NCDR



Section: Follow-Up Event Information

Parent: Follow Up

Element: 14386		Adjudication Event Date	Technical Specification
Coding Instruction:		Indicate the date the clinical event being adjudicated occurred.	Code: 112000001816
Target Value:		N/A	Code System Name: ACC NCDR
Vendor Instruction:		The Adjudication Event Date (14386) / Adjudication Event Code (14385) must match with Follow-Up Event Date (14277) / Follow-Up Event Code (12933)	Short Name: F_AJ_EventDate
			Missing Data: Report
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: No
			Is Followup Element: Yes
			Data Type: DT
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
Element: 14385		Adjudication Event	Operator: Equal
		Value: Reintervention - Aortic Valve	
Element: 14385		Adjudication Event	Operator: Equal
		Value: Stroke - Hemorrhagic	
Element: 14385		Adjudication Event	Operator: Equal
		Value: Stroke - Ischemic	
Element: 14385		Adjudication Event	Operator: Equal
		Value: Reintervention - Mitral Valve	
Element: 14385		Adjudication Event	Operator: Equal
		Value: Readmission - Heart Failure	
Element: 14385		Adjudication Event	Operator: Equal
		Value: Transient Ischemic Attack (TIA)	
Element: 14385		Adjudication Event	Operator: Equal
		Value: Reintervention - Tricuspid Valve	
Element: 14385		Adjudication Event	Operator: Equal
		Value: Stroke - Undetermined	



Section: Follow-Up Event Information

Parent: Follow Up

Element: 14387		Adjudication Status	Technical Specification
		Coding Instruction: Indicate whether the patient was alive or deceased on the date the adjudication was performed.	Code: 112000001817
		Target Value: N/A	Code System Name: ACC NCDR
		Vendor Instruction: Adjudication Status (14387) as 'Deceased' must be answered only once in follow-up episode.	Short Name: F_AJ_Status
			Missing Data: Report
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: No
			Is Followup Element: Yes
			Data Type: CD
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 14385 Adjudication Event
			Operator: Equal
			Value: Reintervention - Aortic Valve
			Element: 14385 Adjudication Event
			Operator: Equal
			Value: Stroke - Hemorrhagic
			Element: 14385 Adjudication Event
			Operator: Equal
			Value: Stroke - Ischemic
			Element: 14385 Adjudication Event
			Operator: Equal
			Value: Reintervention - Mitral Valve
			Element: 14385 Adjudication Event
			Operator: Equal
			Value: Readmission - Heart Failure
			Element: 14385 Adjudication Event
			Operator: Equal
			Value: Transient Ischemic Attack (TIA)
			Element: 14385 Adjudication Event
			Operator: Equal
			Value: Reintervention - Tricuspid Valve
			Element: 14385 Adjudication Event
			Operator: Equal
			Value: Stroke - Undetermined
			----- AND -----
			Element: 14386 Adjudication Event Date
			Operator:
			Value: Any Value

Adjudication Life Status - 1.3.6.1.4.1.19376.1.4.1.6.5.726

Selection	Definition	Source	Code	Code System Name
Alive			438949009	SNOMED CT
Deceased			20	HL7 Discharge disposition



Section: Follow-Up Event Information

Parent: Follow Up

Element: 14388		Adjudication Date of Death	Technical Specification
Coding Instruction:		Indicate the date the patient was declared dead.	Code: 399753006
Target Value:		N/A	Code System Name: SNOMED CT
Vendor Instruction:		Adjudication Date of Death (14388) must be Greater than or Equal to Adjudication Event Date (14386)	Short Name: F_AJ_DeathDate
			Missing Data: Report
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: No
			Is Followup Element: Yes
			Data Type: DT
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 14387 Adjudication Status
			Operator: Equal
			Value: Deceased

Element: 14463		Follow Up Clinical Comments	Technical Specification
Coding Instruction:		Provide information and details that may assist in assessing the event(s) being adjudicated.	Code: 423016009
Target Value:		N/A	Code System Name: SNOMED CT
			Short Name: AJ_CommentsFU
			Missing Data: Report
			Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: No
			Is Followup Element: Yes
			Data Type: ST
			Precision: 1000
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User



Section: Follow-Up Stroke or TIA

Parent: Follow-Up Event Information

Element: 14389		Symptom Onset Date	Technical Specification	
Coding Instruction:		Indicate the date of symptom onset of the neurologic deficit.	Code: 112000000125	
Target Value:		N/A	Code System Name: ACC NCDR	
			Short Name: F_AJ_SxOnset	
			Missing Data: Report	
			Harvested: Yes (TAVR, TMVR, TMVrpr)	
			Is Identifier: No	
			Is Base Element: No	
			Is Followup Element: Yes	
			Data Type: DT	
			Precision:	
			Selection Type: Single	
			Unit of Measure:	
			Default Value: Null	
			Usual Range:	
			Valid Range:	
			Data Source: User	
Parent/Child Validation				
Element:		14385	Adjudication Event	
Operator:		Equal		
Value:		Transient Ischemic Attack (TIA)		
Element:		14385	Adjudication Event	
Operator:		Equal		
Value:		Stroke - Hemorrhagic		
Element:		14385	Adjudication Event	
Operator:		Equal		
Value:		Stroke - Ischemic		
Element:		14385	Adjudication Event	
Operator:		Equal		
Value:		Stroke - Undetermined		
----- AND -----				
Element:		13705	Transcatheter Valve Therapy Reference Procedure Type	
Operator:		Equal		
Value:		TAVR		
Element:		13705	Transcatheter Valve Therapy Reference Procedure Type	
Operator:		Equal		
Value:		TMVR		
Element:		13705	Transcatheter Valve Therapy Reference Procedure Type	
Operator:		Equal		
Value:		TMVr		



Section: Follow-Up Stroke or TIA

Parent: Follow-Up Event Information

Element: 14390		Neurologic Deficit with Rapid Onset	Technical Specification
Coding Instruction:		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.	Code: 264552009 Code System Name: SNOMED CT Short Name: F_AJ_NeuroDef Missing Data: Report Harvested: Yes (BDS, TAVR, TMVR, TMVrpr) Is Identifier: No Is Base Element: No Is Followup Element: Yes Data Type: BL Precision: Selection Type: Single Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Target Value:		N/A	Parent/Child Validation
			Element: 14385 Adjudication Event Operator: Equal Value: Stroke - Hemorrhagic Element: 14385 Adjudication Event Operator: Equal Value: Stroke - Ischemic Element: 14385 Adjudication Event Operator: Equal Value: Stroke - Undetermined Element: 14385 Adjudication Event Operator: Equal Value: Transient Ischemic Attack (TIA) ----- AND ----- Element: 13705 Transcatheter Valve Therapy Reference Procedure Type Operator: Equal Value: TAVR Element: 13705 Transcatheter Valve Therapy Reference Procedure Type Operator: Equal Value: TMVR Element: 13705 Transcatheter Valve Therapy Reference Procedure Type Operator: Equal Value: TMVr



Section: Follow-Up Stroke or TIA

Parent: Follow-Up Event Information

Element: 14391		Neurologic Deficit Clinical Presentation	Technical Specification	
Coding Instruction:		Indicate the clinical presentation of the neurologic deficit.	Code:	264552009
Target Value:		N/A	Code System Name:	SNOMED CT
			Short Name:	F_AJ_NeuroClinPresent
			Missing Data:	Report
			Harvested:	Yes (BDS, TAVR, TMVR, TMVrpr)
			Is Identifier:	No
			Is Base Element:	No
			Is Followup Element:	Yes
			Data Type:	CD
			Precision:	
			Selection Type:	Single
			Unit of Measure:	
			Default Value:	Null
			Usual Range:	
			Valid Range:	
			Data Source:	User
			Parent/Child Validation	
			Element:	14390 Neurologic Deficit with Rapid Onset
			Operator:	Equal
			Value:	Yes

Neurologic Deficit Clinical Presentation - 1.3.6.1.4.1.19376.1.4.1.6.5.716

Selection	Definition	Source	Code	Code System Name
TIA or Stroke (CVA)			100014109	ACC NCDR
Non Stroke Neurologic Deficit			112000001860	ACC NCDR

Element: 14392		Neurologic Symptom Duration Greater Than or Equal to 24 hours	Technical Specification	
Coding Instruction:		Indicate if the duration of the neurologic symptoms lasted >= 24 hours.	Code:	308921004
Target Value:		N/A	Code System Name:	SNOMED CT
			Short Name:	F_AJ_NeuroSymptDuration
			Missing Data:	Report
			Harvested:	Yes (TAVR, TMVR, TMVrpr)
			Is Identifier:	No
			Is Base Element:	No
			Is Followup Element:	Yes
			Data Type:	BL
			Precision:	
			Selection Type:	Single
			Unit of Measure:	
			Default Value:	Null
			Usual Range:	
			Valid Range:	
			Data Source:	User
			Parent/Child Validation	
			Element:	14391 Neurologic Deficit Clinical Presentation
			Operator:	Equal
			Value:	TIA or Stroke (CVA)



Section: Follow-Up Stroke or TIA

Parent: Follow-Up Event Information

Element: 14393 Brain Imaging Performed		Technical Specification
Coding Instruction: Indicate if neuroimaging such as CT, MRI, cerebral angiography was performed.		Code: 441986001
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: F_AJ_BrainImag
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: BL
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14391 Neurologic Deficit Clinical Presentation
		Operator: Equal
		Value: TIA or Stroke (CVA)

Element: 14394 Brain Imaging Type		Technical Specification
Coding Instruction: Indicate the type of neuroimaging performed.		Code: 441986001
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: F_AJ_BrainImageType
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14393 Brain Imaging Performed
		Operator: Equal
		Value: Yes

Imaging Type - 1.3.6.1.4.1.19376.1.4.1.6.5.417

Selection	Definition	Source	Code	Code System Name
Computed Tomography			77477000	SNOMED CT
Computed Tomography with Contrast			112000001861	ACC NCDR
Magnetic Resonance Imaging			113091000	SNOMED CT
Magnetic Resonance Imaging with Contrast			51619007	SNOMED CT
Other Imaging			112000001862	ACC NCDR



Section: Follow-Up Stroke or TIA

Parent: Follow-Up Event Information

Element: 14395 Brain Imaging Findings		Technical Specification
Coding Instruction: Indicate the type of deficit found as a result of the neuroimaging study. Hemorrhage includes intraparenchymal, intraventricular and epidural hemorrhages.		Code: 112000001979
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: F_BI_Find
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14393 Brain Imaging Performed		
Operator: Equal		
Value: Yes		

Brain Imaging Finding - 1.3.6.1.4.1.19376.1.4.1.6.5.717

Selection	Definition	Source	Code	Code System Name
Infarct	Neuroimaging evidence of CNS infarction in the corresponding vascular territory (brain, spinal cord, or retinal cell death), with or without hemorrhage.	Adapted from: Lansky, A.J., et al. Proposed Standardized Neurological Endpoints for Cardiovascular Clinical Trials (An Academic Research Consortium Initiative) JACC 2017, 69 (6): 679-690	55641003	SNOMED CT
Hemorrhage	Neuroimaging evidence of central nervous system (CNS) hemorrhage within the brain parenchyma, subarachnoid space, ventricular system, spinal cord, or retina that is not caused by trauma.	Adapted from: Lansky, A.J., et al. Proposed Standardized Neurological Endpoints for Cardiovascular Clinical Trials (An Academic Research Consortium Initiative) JACC 2017, 69 (6): 679-690	50960005	SNOMED CT
No Deficit			100001231	ACC NCDR



Section: Follow-Up Stroke or TIA

Parent: Follow-Up Event Information

Element: 14396		Event Related Sequelae	
Coding Instruction:		Indicate the sequelae related to the stroke or TIA.	
Target Value:		N/A	

Technical Specification	
Code:	362977000
Code System Name:	SNOMED CT
Short Name:	F_Adj_ERS
Missing Data:	Report
Harvested:	Yes (BDS, TAVR, TMVR, TMVrpr)
Is Identifier:	No
Is Base Element:	No
Is Followup Element:	Yes
Data Type:	CD
Precision:	
Selection Type:	Multiple
Unit of Measure:	
Default Value:	Null
Usual Range:	
Valid Range:	
Data Source:	User

Parent/Child Validation	
Element:	14391 Neurologic Deficit Clinical Presentation
Operator:	Equal
Value:	TIA or Stroke (CVA)

Event Related Sequelae - 1.3.6.1.4.1.19376.1.4.1.6.5.737

Selection	Definition	Source	Code	Code System Name
Death			419620001	SNOMED CT
Permanent Vegetative State			723151005	SNOMED CT
Altered Consciousness			3006004	SNOMED CT
Blindness			193699007	SNOMED CT
Aphasia			87486003	SNOMED CT
Loss of Motor Function			112000001936	ACC NCDR
Loss of Sensory Function			33653009	SNOMED CT
Facial Paralysis			280816001	SNOMED CT
Prolonged Length of Stay			112000001937	ACC NCDR
Other			100000351	ACC NCDR



Section: Follow-Up Stroke or TIA

Parent: Follow-Up Event Information

Element: 14420 Discharge Location After Event		Technical Specification
Coding Instruction: Indicate the discharge location after the stroke or TIA.		Code: 75528-0
Target Value: N/A		Code System Name: LOINC
		Short Name: F_AJ_DLAЕ
		Missing Data: Report
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14385 Adjudication Event
		Operator: Equal
		Value: Stroke - Hemorrhagic
		Element: 14385 Adjudication Event
		Operator: Equal
		Value: Stroke - Ischemic
		Element: 14385 Adjudication Event
		Operator: Equal
		Value: Stroke - Undetermined
		Element: 14385 Adjudication Event
		Operator: Equal
		Value: Transient Ischemic Attack (TIA)
		----- AND -----
		Element: 14387 Adjudication Status
		Operator: Equal
		Value: Alive
		----- AND -----
		Element: 13705 Transcatheter Valve Therapy Reference Procedure Type
		Operator: Equal
		Value: TAVR
		Element: 13705 Transcatheter Valve Therapy Reference Procedure Type
		Operator: Equal
		Value: TMVr
		Element: 13705 Transcatheter Valve Therapy Reference Procedure Type
		Operator: Equal
		Value: TMVR

Discharge Location - 1.3.6.1.4.1.19376.1.4.1.6.5.41

Selection	Definition	Source	Code	Code System Name
Home			01	HL7 Discharge disposition
Skilled Nursing Facility	Skilled nursing facilities (SNF) are typically sub-acute programs used for longer anticipated length of stay.		03	HL7 Discharge disposition
	Note: Sometimes SNFs may have acute rehabilitation beds within their facility. If the patient is discharged to a SNF for acute rehab (requiring a higher level of care), code "extended care/TCU/rehab".			
Extended Care/TCU/Rehab	An extended care unit, transitional care unit or rehab unit typically provides a high level of intensive therapy as well as specialized nursing and physician care. This discharge setting may also be called subacute care or long term acute care (LTACH).		62	HL7 Discharge disposition
Other Acute Care Hospital			02	HL7 Discharge disposition
Left Against Medical Advice (AMA)	The patient was discharged or eloped against medical advice.		07	HL7 Discharge disposition



Section: Follow-Up Stroke or TIA

Parent: Follow-Up Event Information

Other Discharge Location

100001249

ACC NCDR

Element: 14422 Patient Discharged to Prior Place of Living

Coding Instruction: Indicate if the patient was discharged to their prior place of living.

Target Value: N/A

Technical Specification

Code: 112000001882

Code System ACC NCDR

Name:

Short Name: F_AJ_PriorLiving

Missing Data: Report

Harvested: Yes (TAVR, TMVR, TMVrpr)

Is Identifier: No

Is Base Element: No

Is Followup

Element: Yes

Data Type: BL

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 14385 Adjudication Event

Operator: Equal

Value: Stroke - Hemorrhagic

Element: 14385 Adjudication Event

Operator: Equal

Value: Stroke - Ischemic

Element: 14385 Adjudication Event

Operator: Equal

Value: Stroke - Undetermined

Element: 14385 Adjudication Event

Operator: Equal

Value: Transient Ischemic Attack (TIA)

----- AND -----

Element: 14387 Adjudication Status

Operator: Equal

Value: Alive

----- AND -----

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: TAVR

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: TMVr

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: TMVR



Section: Follow-Up Stroke or TIA

Parent: Follow-Up Event Information

Element: 14397 Stroke Diagnosed During Autopsy		Technical Specification
Coding Instruction: Indicate if the stroke was diagnosed during autopsy.		Code: 5605004
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: F_AJ_AutDxStroke
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14385	Adjudication Event	
Operator: Equal		
Value: Stroke - Hemorrhagic		
Element: 14385	Adjudication Event	
Operator: Equal		
Value: Stroke - Ischemic		
Element: 14385	Adjudication Event	
Operator: Equal		
Value: Stroke - Undetermined		
Element: 14385	Adjudication Event	
Operator: Equal		
Value: Transient Ischemic Attack (TIA)		
----- AND -----		
Element: 14387	Adjudication Status	
Operator: Equal		
Value: Deceased		

Boolean with Information Not Available - 1.3.6.1.4.1.19376.1.4.1.6.5.718

Selection	Definition	Source	Code	Code System Name
No			100013073	ACC NCDR
Yes			100013072	ACC NCDR
Information Not Available			112000001866	ACC NCDR



Section: Follow-Up AV Re-Intervention

Parent: Follow-Up Event Information

Element: 14398 Aortic Valve Reintervention Type		Technical Specification
Coding Instruction: Indicate the type of aortic valve reintervention.		Code: 112000001868
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: F_AJ_ReIntType
		Missing Data: Report
		Harvested: Yes (BDS, TAVR)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14385 Adjudication Event		
Operator: Equal		
Value: Reintervention - Aortic Valve		
----- AND -----		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: TAVR		

Valve Reintervention Type - 1.3.6.1.4.1.19376.1.4.1.6.5.719

Selection	Definition	Source	Code	Code System Name
Surgical Replacement			112000001872	ACC NCDR
Surgical Repair			112000001871	ACC NCDR
Transcatheter Replacement			112000001875	ACC NCDR
Balloon Valvuloplasty			112000001469	ACC NCDR
Leaflet Clip Procedure			112000001778	ACC NCDR
Paravalvular Leak Closure			112000001916	ACC NCDR
Other Transcatheter Intervention			112000001873	ACC NCDR



Section: Follow-Up AV Re-Intervention

Parent: Follow-Up Event Information

Element: 14399		Technical Specification
Aortic Valve Reintervention Primary Indication		Code: 112000001825
Coding Instruction: Indicate the primary indication for the reintervention. If more than one indication is present, code the indication the operator feels has the highest significance.		Code System Name: ACC NCDR
Target Value: N/A		Short Name: F_AJ_PrimaryInd
		Missing Data: Report
		Harvested: Yes (BDS, TAVR)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14385 Adjudication Event
		Operator: Equal
		Value: Reintervention - Aortic Valve
		----- AND -----
		Element: 13705 Transcatheter Valve Therapy
		Reference Procedure Type
		Operator: Equal
		Value: TAVR

Valve Reintervention Indication - 1.3.6.1.4.1.19376.1.4.1.6.5.720

Selection	Definition	Source	Code	Code System Name
Regurgitation			40445007	SNOMED CT
Stenosis			44241007	SNOMED CT
Device Embolization			112000001324	ACC NCDR
Device Fracture			112000001891	ACC NCDR
Device Migration			370512004	SNOMED CT
Endocarditis			56819008	SNOMED CT
Paravalvular Leak			234184000	SNOMED CT
Device Thrombosis			112000001839	ACC NCDR
Valve Injury			762610001	SNOMED CT
Other			100000351	ACC NCDR



Section: Follow-Up AV Re-Intervention

Parent: Follow-Up Event Information

Element: 14400 Aortic Valve Regurgitation

Coding Instruction: Indicate the highest level of aortic regurgitation prior to the aortic valve reintervention.

Target Value: N/A

Technical Specification

Code: 112000001869

Code System Name: ACC NCDR

Short Name: F_AJ_AISev

Missing Data: Report

Harvested: Yes (BDS, TAVR)

Is Identifier: No

Is Base Element: No

Is Followup Element: Yes

Data Type: CD

Precision:

Selection Type: Single

Unit of Measure:

Default Value: Null

Usual Range:

Valid Range:

Data Source: User

Parent/Child Validation

Element: 14385 Adjudication Event

Operator: Equal

Value: Reintervention - Aortic Valve

----- AND -----

Element: 13705 Transcatheter Valve Therapy
Reference Procedure Type

Operator: Equal

Value: TAVR

----- AND -----

Element: 14399 Aortic Valve Reintervention
Primary Indication

Operator: Equal

Value: Regurgitation

Valve Regurgitation Severity - 1.3.6.1.4.1.19376.1.4.1.6.5.767

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Trace/Trivial			112000001911	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Follow-Up AV Re-Intervention

Parent: Follow-Up Event Information

Element: 14403	Paravalvular Aortic Regurgitation																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							</
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Valve Regurgitation Severity 4 - 1.3.6.1.4.1.19376.1.4.1.6.5.768

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Follow-Up AV Re-Intervention

Parent: Follow-Up Event Information

Element: 14401 Central Aortic Regurgitation		Technical Specification
Coding Instruction: Indicate the highest severity of central aortic regurgitation prior to the aortic valve reintervention.		Code: 112000001433
Note: If trace/trivial is documented, code "none".		Code System Name: ACC NCDR
Target Value: N/A		Short Name: F_AJ_CenSev
		Missing Data: Report
		Harvested: Yes (TAVR)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14400	Aortic Valve Regurgitation	
Operator:	Equal	
Value:	Mild	
Element: 14400	Aortic Valve Regurgitation	
Operator:	Equal	
Value:	Moderate	
Element: 14400	Aortic Valve Regurgitation	
Operator:	Equal	
Value:	Severe	
Element: 14400	Aortic Valve Regurgitation	
Operator:	Equal	
Value:	Trace/Trivial	

Valve Regurgitation Severity 4 - 1.3.6.1.4.1.19376.1.4.1.6.5.768

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR

Element: 14402 Aortic Valve Area		Technical Specification
Coding Instruction: Indicate the smallest aortic valve area (in cm squared).		Code: 112000001280
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: F_AJ_AVA
		Missing Data: Report
		Harvested: Yes (TAVR)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: PQ
		Precision: 3,2
		Selection Type: Single
		Unit of Measure: cm2
		Default Value: Null
		Usual Range: 0.20 - 4.00 cm2
		Valid Range: 0.05 - 5.00 cm2
		Data Source: User
Parent/Child Validation		
Element: 14399	Aortic Valve Reintervention	
	Primary Indication	
Operator:	Equal	
Value:	Stenosis	



Section: Follow-Up AV Re-Intervention

Parent: Follow-Up Event Information

Element: 14404 Aortic Valve Mean Gradient		Technical Specification
Coding Instruction: Indicate the aortic valve mean gradient in mm Hg.		Code: 112000001398
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: F_AJ_AVG
		Missing Data: Report
		Harvested: Yes (BDS, TAVR)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mm[Hg]
		Default Value: Null
		Usual Range: 5 - 50 mm[Hg]
		Valid Range: 0 - 200 mm[Hg]
		Data Source: User
Parent/Child Validation		
Element: 14399 Aortic Valve Reintervention		
Primary Indication		
Operator: Equal		
Value: Stenosis		



Section: Follow-Up MV Re-Intervention

Parent: Follow-Up Event Information

Element: 14405 Mitral Valve Reintervention Type		Technical Specification
Coding Instruction: Indicate the type of mitral valve reintervention.		Code: 112000001868
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: F_AJ_MVReinType
		Missing Data: Report
		Harvested: Yes (BDS, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14385	Adjudication Event	
Operator:	Equal	
Value:	Reintervention - Mitral Valve	
----- AND -----		
Element: 13705	Transcatheter Valve Therapy Reference Procedure Type	
Operator:	Equal	
Value:	TMVR	
Element: 13705	Transcatheter Valve Therapy Reference Procedure Type	
Operator:	Equal	
Value:	TMVr	

Valve Reintervention Type - 1.3.6.1.4.1.19376.1.4.1.6.5.719

Selection	Definition	Source	Code	Code System Name
Surgical Replacement			112000001872	ACC NCDR
Surgical Repair			112000001871	ACC NCDR
Transcatheter Replacement			112000001875	ACC NCDR
Balloon Valvuloplasty			112000001469	ACC NCDR
Leaflet Clip Procedure			112000001778	ACC NCDR
Paravalvular Leak Closure			112000001916	ACC NCDR
Other Transcatheter Intervention			112000001873	ACC NCDR



Section: Follow-Up MV Re-Intervention

Parent: Follow-Up Event Information

Element: 14406		Technical Specification
Mitral Valve Reintervention Indication		Code: 112000001825
Coding Instruction: Indicate the primary indication for the reintervention. If more than one indication is present, code the indication the operator feels has the highest significance.		Code System Name: ACC NCDR
Target Value: N/A		Short Name: F_AJ_MVReintInd
		Missing Data: Report
		Harvested: Yes (BDS, TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14385 Adjudication Event		
Operator: Equal		
Value: Reintervention - Mitral Valve		
----- AND -----		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: TMVR		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: TMVr		

Valve Reintervention Indication - 1.3.6.1.4.1.19376.1.4.1.6.5.720

Selection	Definition	Source	Code	Code System Name
Regurgitation			40445007	SNOMED CT
Stenosis			44241007	SNOMED CT
Device Embolization			112000001324	ACC NCDR
Device Fracture			112000001891	ACC NCDR
Device Migration			370512004	SNOMED CT
Endocarditis			56819008	SNOMED CT
Paravalvular Leak			234184000	SNOMED CT
Device Thrombosis			112000001839	ACC NCDR
Valve Injury			762610001	SNOMED CT
Other			100000351	ACC NCDR



Section: Follow-up Readmission

Parent: Follow-Up Event Information

Element: 14380 Hospitalization Greater Than or Equal to 24 Hours		Technical Specification
Coding Instruction: Indicate if the heart failure readmission required the patient to be hospitalized with treatment in any inpatient unit for at least 24 hours, including emergency department or observation stay.		Code: 1000142363
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: F_AJ_Hospital
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14385 Adjudication Event		
Operator: Equal		
Value: Readmission - Heart Failure		
----- AND -----		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: TMVR		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: TMVr		

Boolean with Information Not Available - 1.3.6.1.4.1.19376.1.4.1.6.5.718

Selection	Definition	Source	Code	Code System Name
No			100013073	ACC NCDR
Yes			100013072	ACC NCDR
Information Not Available			112000001866	ACC NCDR



Section: Follow-up Readmission

Parent: Follow-Up Event Information

Element: 14381		Technical Specification
Clinical Signs or Symptoms of Heart Failure		
Coding Instruction: 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.		Code: 100014007
		Code System Name: ACC NCDR
		Short Name: F_AJ_SSHF
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 14385 Adjudication Event
		Operator: Equal
		Value: Readmission - Heart Failure
		----- AND -----
		Element: 13705 Transcatheter Valve Therapy
		Reference Procedure Type
		Operator: Equal
		Value: TMVR
		Element: 13705 Transcatheter Valve Therapy
		Reference Procedure Type
		Operator: Equal
		Value: TMVr

Boolean with Information Not Available - 1.3.6.1.4.1.19376.1.4.1.6.5.718

Selection	Definition	Source	Code	Code System Name
No			100013073	ACC NCDR
Yes			100013072	ACC NCDR
Information Not Available			112000001866	ACC NCDR



Section: Follow-up Readmission

Parent: Follow-Up Event Information

Element: 14382 IV or Invasive Treatment Required		Technical Specification
Coding Instruction: Indicate if the patient had signs and symptoms of heart failure that resulted in intravenous (e.g., diuretic or vasoactive therapy) or invasive (e.g., ultrafiltration, IABP, mechanical assistance) treatment for heart failure.		Code: 112000001867
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: F_AJ_HFTreatment
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14385 Adjudication Event		
Operator: Equal		
Value: Readmission - Heart Failure		
----- AND -----		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: TMVR		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: TMVr		

Boolean with Information Not Available - 1.3.6.1.4.1.19376.1.4.1.6.5.718

Selection	Definition	Source	Code	Code System Name
No			100013073	ACC NCDR
Yes			100013072	ACC NCDR
Information Not Available			112000001866	ACC NCDR



Section: Follow-Up Tricuspid Valve Re-Intervention

Parent: Follow-Up Event Information

Element: 14408 Tricuspid Valve Reintervention Type		Technical Specification
Coding Instruction: Indicate the type of tricuspid valve re-intervention.		Code: 112000001868
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: F_AJ_TVReIn
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14385 Adjudication Event		
Operator: Equal		
Value: Reintervention - Tricuspid Valve		
----- AND -----		
Element: 13705 Transcatheter Valve Therapy Reference Procedure Type		
Operator: Equal		
Value: Tricuspid Valve Procedure		

Valve Reintervention Type - 1.3.6.1.4.1.19376.1.4.1.6.5.719

Selection	Definition	Source	Code	Code System Name
Surgical Replacement			112000001872	ACC NCDR
Surgical Repair			112000001871	ACC NCDR
Transcatheter Replacement			112000001875	ACC NCDR
Balloon Valvuloplasty			112000001469	ACC NCDR
Leaflet Clip Procedure			112000001778	ACC NCDR
Paravalvular Leak Closure			112000001916	ACC NCDR
Other Transcatheter Intervention			112000001873	ACC NCDR



Section: Follow-Up Tricuspid Valve Re-Intervention

Parent: Follow-Up Event Information

Element: 14409		Tricuspid Valve Reintervention Primary Indication	Technical Specification
Coding Instruction:		Indicate the primary indication for the tricuspid valve re-intervention.	Code: 112000001825
Target Value:		N/A	Code System Name: ACC NCDR
			Short Name: F_AJ_TVInd
			Missing Data: Report
			Harvested: Yes (TTVP)
			Is Identifier: No
			Is Base Element: No
			Is Followup Element: Yes
			Data Type: CD
			Precision:
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: User
			Parent/Child Validation
			Element: 14385 Adjudication Event
			Operator: Equal
			Value: Reintervention - Tricuspid Valve
			----- AND -----
			Element: 13705 Transcatheter Valve Therapy
			Reference Procedure Type
			Operator: Equal
			Value: Tricuspid Valve Procedure

Valve Reintervention Indication - 1.3.6.1.4.1.19376.1.4.1.6.5.720

Selection	Definition	Source	Code	Code System Name
Regurgitation			40445007	SNOMED CT
Stenosis			44241007	SNOMED CT
Device Embolization			112000001324	ACC NCDR
Device Fracture			112000001891	ACC NCDR
Device Migration			370512004	SNOMED CT
Endocarditis			56819008	SNOMED CT
Paravalvular Leak			234184000	SNOMED CT
Device Thrombosis			112000001839	ACC NCDR
Valve Injury			762610001	SNOMED CT
Other			100000351	ACC NCDR



Section: Follow-Up Tricuspid Valve Re-Intervention

Parent: Follow-Up Event Information

Element: 14410 Tricuspid Valve Regurgitation		Technical Specification
Coding Instruction: Indicate the severity of tricuspid valve regurgitation.		Code: 111287006
Target Value: N/A		Code System Name: SNOMED CT
		Short Name: F_AJ_TR
		Missing Data: Report
		Harvested: Yes (TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
Parent/Child Validation		
Element: 14409 Tricuspid Valve Reintervention		
Primary Indication		
Operator: Equal		
Value: Regurgitation		

Valve Regurgitation Severity - 1.3.6.1.4.1.19376.1.4.1.6.5.767

Selection	Definition	Source	Code	Code System Name
None			112000001910	ACC NCDR
Trace/Trivial			112000001911	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Follow-Up Medications

Parent: Follow Up

Element: 11990	Follow-Up Medications Code	Technical Specification
Coding Instruction:	Indicate the assigned identification number associated with the medications the patient was prescribed or received. Note(s): The medication(s) collected in this field are controlled by the Medication Master file. This file is maintained by the NCDR and will be made available on the internet for downloading and importing/updating into your application. Each medication in the Medication Master file is assigned to a value set. The value set is used to separate procedural medications from medications prescribed at discharge. The separation of these medications is depicted on the data collection form.	Code: 100013057 Code System Name: ACC NCDR Short Name: F_MedID Missing Data: Report Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP) Is Identifier: No Is Base Element: No Is Followup Element: Yes Data Type: CD Precision: Selection Type: Single (Dynamic List) Unit of Measure: Default Value: Null Usual Range: Valid Range: Data Source: User
Target Value:	N/A	
Vendor Instruction:	Follow-Up Medications Code (11990) should not be duplicated in a follow-up	

Follow-up Medication - 2.16.840.1.113883.3.3478.6.5.203

Selection	Definition	Source	Code	Code System Name
Angiotensin Converting Enzyme Inhibitor			41549009	SNOMED CT
Aldosterone Antagonist			372603003	SNOMED CT
Direct thrombin inhibitor			414010005	SNOMED CT
Warfarin			11289	RxNorm
Aspirin			1191	RxNorm
Angiotensin II Receptor Blocker			372913009	SNOMED CT
Beta Blocker			33252009	SNOMED CT
Diuretics Not Otherwise Specified			112000001417	ACC NCDR
Loop Diuretics			29051009	SNOMED CT
Thiazides			372747003	SNOMED CT
Direct Factor Xa Inhibitor			112000000696	ACC NCDR
P2Y12 Antagonist			112000001003	ACC NCDR



Section: Follow-Up Medications

Parent: Follow Up

Element: 13696 Medications Prescribed		Technical Specification
Coding Instruction: Indicated if the medication is prescribed, not prescribed or is not prescribed for either a medical or patient reason		Code: 432102000
Target Value: The value on Follow-up		Code System Name: SNOMED CT
		Short Name: F_MedAdmin1
		Missing Data: Report
		Harvested: Yes (TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: User
		Parent/Child Validation
		Element: 11990 Follow-Up Medications Code
		Operator:
		Value: Any Value

Follow-Up Medication Administration - 1.3.6.1.4.1.19376.1.4.1.6.5.371

Selection	Definition	Source	Code	Code System Name
Not Prescribed - Medical Reason			100001034	ACC NCDR
Not Prescribed - No Reason			100001048	ACC NCDR
Not Prescribed - Patient Reason			100001071	ACC NCDR
Yes - Prescribed			100001247	ACC NCDR

Element: 14577 Loop Diuretic Dose		Technical Specification
Coding Instruction: Specify the total daily dose of the loop diuretic that was prescribed to the patient.		Code: 112000001975
Target Value: The value on Follow-up		Code System Name: ACC NCDR
		Short Name: FUMed_LoopDiureticDose
		Missing Data: Report
		Harvested: Yes (TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: No
		Is Followup Element: Yes
		Data Type: PQ
		Precision: 3,0
		Selection Type: Single
		Unit of Measure: mg
		Default Value: Null
		Usual Range: 1 - 40 mg
		Valid Range: 1 - 300 mg
		Data Source: User
		Parent/Child Validation
		Element: 11990 Follow-Up Medications Code
		Operator: Equal
		Value: Loop Diuretics
		----- AND -----
		Element: 13696 Medications Prescribed
		Operator: Equal
		Value: Yes - Prescribed



Section: Administration

Parent: Root

Element: 1000	Participant ID	Technical Specification
Coding Instruction: Indicate the participant ID of the submitting facility.		Code: 2.16.840.1.113883.3.3478.4.836
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: PartID
		Missing Data: Illegal
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: Yes
		Data Type: NUM
		Precision: 8
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: Automatic

Element: 1010	Participant Name	Technical Specification
Coding Instruction: Indicate the full name of the facility where the procedure was performed.		Code: 2.16.840.1.113883.3.3478.4.836
Note(s): Values should be full, official hospital names with no abbreviations or variations in spelling.		Code System Name: ACC NCDR
Target Value: N/A		Short Name: PartName
		Missing Data: Illegal
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: Yes
		Data Type: ST
		Precision: 100
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: Automatic

Element: 1020	Time Frame of Data Submission	Technical Specification
Coding Instruction: Indicate the time frame of data included in the data submission. Format: YYYYQQ. e.g., 2016Q1		Code: 1.3.6.1.4.1.19376.1.4.1.6.5.45
Target Value: N/A		Code System Name: ACC NCDR
		Short Name: Timeframe
		Missing Data: Illegal
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: Yes
		Data Type: ST
		Precision: 6
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: Automatic



Section: Administration

Parent: Root

Element: 1040		Transmission Number	Technical Specification
Coding Instruction:		This is a unique number created, and automatically inserted by the software into export file. It identifies the number of times the software has created a data submission file. The transmission number should be incremented by one every time the data submission files are exported. The transmission number should never be repeated.	Code: 1.3.6.1.4.1.19376.1.4.1.6.5.45
			Code System Name: ACC NCDR
			Short Name: XmsnId
			Missing Data: Illegal
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: Yes
			Is Base Element: Yes
			Is Followup Element: Yes
			Data Type: NUM
			Precision: 9
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range: 1 - 999,999,999
			Data Source: Automatic
Element: 1050		Vendor Identifier	Technical Specification
Coding Instruction:		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.	Code: 2.16.840.1.113883.3.3478.4.840
			Code System Name: ACC NCDR
			Short Name: VendorId
			Missing Data: Illegal
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: Yes
			Data Type: ST
			Precision: 15
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: Automatic
Element: 1060		Vendor Software Version	Technical Specification
Coding Instruction:		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.	Code: 2.16.840.1.113883.3.3478.4.847
			Code System Name: ACC NCDR
			Short Name: VendorVer
			Missing Data: Illegal
			Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			Is Identifier: No
			Is Base Element: Yes
			Is Followup Element: Yes
			Data Type: ST
			Precision: 20
			Selection Type: Single
			Unit of Measure:
			Default Value: Null
			Usual Range:
			Valid Range:
			Data Source: Automatic



Section: Administration

Parent: Root

Element: 1070	Registry Identifier	Technical Specification
Coding Instruction:	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.	Code: 2.16.840.1.113883.3.3478.4.841
Target Value:	N/A	Code System Name: ACC NCDR
		Short Name: RegistryId
		Missing Data: Illegal
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: Yes
		Data Type: ST
		Precision: 30
		Selection Type: Single
		Unit of Measure:
		Default Value: ACC-NCDR-TVT-3.0
		Usual Range:
		Valid Range:
		Data Source: Automatic

Element: 1071	Registry Schema Version	Technical Specification
Coding Instruction:	Schema version describes the version number of the Registry Transmission Document (RTD) schema to which each record conforms. It is an attribute that includes a constant value indicating the version of schema file. This is entered into the schema automatically by software.	Code: 1000142438
Target Value:	N/A	Code System Name: ACC NCDR
		Short Name: SchemaVersion
		Missing Data: Illegal
		Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: Yes
		Data Type: NUM
		Precision: 3,1
		Selection Type: Single
		Unit of Measure:
		Default Value: 1
		Usual Range:
		Valid Range:
		Data Source: Automatic

Element: 1085	Submission Type	Technical Specification
Coding Instruction:	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.	Code: 1000142423
	A transmission file with all episode of care records (from Arrival to Discharge only) is considered a 'Base Registry Record'.	Code System Name: ACC NCDR
	A file with patient follow-up records (any follow-up assessments performed during the quarter selected) is considered a 'Follow-Up Record'.	Short Name: SubmissionType
	Note(s): Selecting 'Follow-Up Records Only' will transmit all patient records with Follow-up Assessment Dates (Element Ref# 11000) contained in the selected timeframe, regardless of the procedure or discharge date. For example, if a patient has a procedure on 3/30/2017, is discharged on 3/31/2017, and has a follow-up assessment on 5/6/2017, the patient's episode of care data will be transmitted in the 2017Q1 Base Registry Record file, but the Follow-up data will be transmitted in the 2017Q2 Follow-Up File.	Missing Data: Illegal
Target Value:	N/A	Harvested: Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		Is Identifier: No
		Is Base Element: Yes
		Is Followup Element: Yes
		Data Type: CD
		Precision:
		Selection Type: Single
		Unit of Measure:
		Default Value: Null
		Usual Range:
		Valid Range:
		Data Source: Automatic

Submission Type

Selection	Definition	Source	Code	Code System Name
Episode of Care Records Only			1000142424	ACC NCDR
Follow-Up Records Only			1000142425	ACC NCDR



Value Set Member Constraints

Element: 12903

Value Set Name: Condition History Name

Condition History Name

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.340

Selections	Selection Dependency
Atrial fibrillation 49436004, Atrial Flutter 5370000, Cardiomyopathy 85898001, Carotid Artery Stenosis 64586002, Cerebrovascular Accident 230690007, Cerebrovascular disease 62914000, Chronic Lung Disease 413839001, COVID-19 Positive 112000001982, Dementia - Moderate to Severe 112000001493, Diabetes mellitus 73211009, Endocarditis 56819008, Heart failure 84114007, Hostile Chest 112000001489, Hypertension 38341003, Liver Disease 235856003, Myocardial infarction 22298006, Peripheral Arterial Disease 399957001, Porcelain Aorta 112000001175, Transient Ischemic Attack (TIA) 266257000	TVT Pathway (13171) IN (TMVr)

Element: 12903

Value Set Name: Condition History Name

Condition History Name

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.340

Selections	Selection Dependency
Atrial fibrillation 49436004, Atrial Flutter 5370000, Carotid Artery Stenosis 64586002, Cerebrovascular Accident 230690007, Cerebrovascular disease 62914000, Chronic Lung Disease 413839001, Conduction Defect 44808001, COVID-19 Positive 112000001982, Dementia - Moderate to Severe 112000001493, Diabetes mellitus 73211009, Endocarditis 56819008, Heart failure 84114007, Hostile Chest 112000001489, Hypertension 38341003, Liver Disease 235856003, Myocardial infarction 22298006, Peripheral Arterial Disease 399957001, Porcelain Aorta 112000001175, Transient Ischemic Attack (TIA) 266257000	TVT Pathway (13171) IN (TAVR)

Element: 12903

Value Set Name: Condition History Name

Condition History Name

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.340

Selections	Selection Dependency
Atrial fibrillation 49436004, Atrial Flutter 5370000, Cardiomyopathy 85898001, Carotid Artery Stenosis 64586002, Cerebrovascular Accident 230690007, Cerebrovascular disease 62914000, Chronic Lung Disease 413839001, COVID-19 Positive 112000001982, Dementia - Moderate to Severe 112000001493, Diabetes mellitus 73211009, Endocarditis 56819008, Heart failure 84114007, Hostile Chest 112000001489, Hypertension 38341003, Liver Disease 235856003, Myocardial infarction 22298006, Peripheral Arterial Disease 399957001, Porcelain Aorta 112000001175, Transient Ischemic Attack (TIA) 266257000	TVT Pathway (13171) IN (TMVR)

Element: 12903

Value Set Name: Condition History Name

Condition History Name

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.340

Selections	Selection Dependency
Atrial fibrillation 49436004, Atrial Flutter 5370000, Cardiomyopathy 85898001, Carotid Artery Stenosis 64586002, Cerebrovascular Accident 230690007, Cerebrovascular disease 62914000, Chronic Lung Disease 413839001, Conduction Defect 44808001, COVID-19 Positive 112000001982, Dementia - Moderate to Severe 112000001493, Diabetes mellitus 73211009, Endocarditis 56819008, Heart failure 84114007, Hostile Chest 112000001489, Hypertension 38341003, Liver Disease 235856003, Myocardial infarction 22298006, Peripheral Arterial Disease 399957001, Porcelain Aorta 112000001175, Transient Ischemic Attack (TIA) 266257000	TVT Pathway (13171) IN (Tricuspid Valve Procedure)

Element: 12905

Value Set Name: Procedure History Name

Procedure History Name

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.341

Selections	Selection Dependency
Aortic valve procedure 112000001755, Aortic Valve Repair Surgery 112816004, Aortic Valve Replacement Surgery 725351001, Aortic Valve Replacement - Transcatheter 41873006, Prior Coronary artery bypass graft 232717009, Implantable Cardioverter Defibrillator 447365002, Mitral Valve Procedure 112000001940, Mitral Valve Annuloplasty Ring Surgery 232744004, Mitral Valve Repair Surgery 384641003, Mitral Valve Replacement Surgery 53059001, Mitral Valve Transcatheter Intervention 112000001773, Prior PCI 415070008, Permanent Pacemaker 449397007, Pulmonic Valve Procedure 112000001769, Tricuspid Valve Procedure 112000001941	TVT Pathway (13171) IN (TMVr)

Element: 12905

Value Set Name: Procedure History Name

Procedure History Name

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.341

Selections	Selection Dependency
Aortic valve procedure 112000001755, Aortic Valve Balloon Valvuloplasty 77166000, Aortic Valve Repair Surgery 112816004, Aortic Valve Replacement Surgery 725351001, Aortic Valve Replacement - Transcatheter 41873006, Aortic Valve Transcatheter Intervention 112000001768, Prior Coronary artery bypass graft 232717009, Implantable Cardioverter Defibrillator 447365002, Mitral Valve Procedure 112000001940, Mitral Valve Annuloplasty Ring Surgery 232744004, Mitral Valve Repair Surgery 384641003, Mitral Valve Replacement Surgery 53059001, Mitral Valve Transcatheter Intervention 112000001773, Prior PCI 415070008, Permanent Pacemaker 449397007, Pulmonic Valve Procedure 112000001769, Tricuspid Valve Procedure 112000001941	TVT Pathway (13171) IN (TAVR)



Value Set Member Constraints

Element: 12905

Value Set Name: Procedure History Name

Procedure History Name

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.341

Selections	Selection Dependency
Aortic valve procedure 112000001755, Aortic Valve Repair Surgery 112816004, Aortic Valve Replacement Surgery 725351001, Aortic Valve Replacement - Transcatheter 41873006, Prior Coronary artery bypass graft 232717009, Implantable Cardioverter Defibrillator 447365002, Mitral Valve Procedure 112000001940, Mitral Valve Annuloplasty Ring Surgery 232744004, Mitral Valve Repair Surgery 384641003, Mitral Valve Replacement Surgery 53059001, Mitral Valve Transcatheter Intervention 112000001773, Prior PCI 415070008, Permanent Pacemaker 449397007, Pulmonic Valve Procedure 112000001769, Tricuspid Valve Procedure 112000001941	TVT Pathway (13171) IN (TMVR)

Element: 12905

Value Set Name: Procedure History Name

Procedure History Name

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.341

Selections	Selection Dependency
Aortic valve procedure 112000001755, Aortic Valve Repair Surgery 112816004, Aortic Valve Replacement Surgery 725351001, Aortic Valve Replacement - Transcatheter 41873006, Prior Coronary artery bypass graft 232717009, Implantable Cardioverter Defibrillator 447365002, Mitral Valve Procedure 112000001940, Mitral Valve Annuloplasty Ring Surgery 232744004, Mitral Valve Repair Surgery 384641003, Mitral Valve Replacement Surgery 53059001, Mitral Valve Transcatheter Intervention 112000001773, Prior PCI 415070008, Permanent Pacemaker 449397007, Pulmonic Valve Procedure 112000001769, Tricuspid Valve Procedure 112000001941, Tricuspid Valve Repair Surgery 384643000, Tricuspid Valve Replacement Surgery 25236004, Tricuspid Valve Replacement - Transcatheter 112000001977, Tricuspid Valve Transcatheter Intervention 112000001779	TVT Pathway (13171) IN (Tricuspid Valve Procedure)

Element: 14335

Value Set Name: TVT Procedure History Devices

Surgical Aortic Valve Replacement Implant ID

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.747

Selections	Selection Dependency
Carpentier-Edwards Porcine Aortic Bioprosthesis 4335, ATS 3f Aortic Bioprosthesis 4375, TVT Pathway (13171) IN (TAVR) ATS 3f Enable Aortic Bioprosthesis 4376, Contegra Unsupported Pulmonary Valve Conduit 4378, Contegra Supported Pulmonary Valve Conduit 4379, Mosaic Ultra Porcine Aortic Bioprosthesis 4380, Freestyle Complete Subcoronary Aortic Bioprostheses 4391, Freestyle Modified Subcoronary Aortic Bioprostheses 4392, Freestyle Full Root Aortic Bioprosthesis 4393, Hancock II Aortic Bioprosthesis 4395, Hancock II Ultra Aortic Bioprosthesis 4396, Hancock II Mitral Bioprosthesis 4397, Prima Aortic Stentless Bioprosthesis 4398, Prima Plus Stentless Aortic Bioprosthesis 4399, Carpentier-Edwards S.A.V. Aortic Porcine Bioprosthesis 4400, Carpentier-Edwards Perimount Pericardial Aortic Bioprosthesis 4401, Carpentier-Edwards Perimount Theon Pericardial Aortic Bioprosthesis with TheraFix Process 4402, Carpentier-Edwards Perimount RSR Pericardial Aortic Bioprosthesis 4403, Carpentier-Edwards Perimount Theon RSR Pericardial Aortic Bioprosthesis with TheraFix Process 4404, Carpentier-Edwards Perimount Magna Pericardial Aortic Bioprosthesis 4405, Carpentier-Edwards Perimount Magna Pericardial Aortic Bioprosthesis with TheraFix Process 4406, Carpentier-Edwards Perimount Magna Ease Pericardial Aortic Bioprosthesis with TheraFix Process 4407, Carpentier-Edwards Bioprosthetic Pulmonic Valved Conduit 4410, Cribier-Edwards Aortic Bioprosthesis 4432, Cribier-Edwards Aortic Bioprosthesis 4433, Intuity Bioprosthesis 4434, CardioGRAFT Aortic Bioprosthesis 4435, CardioGRAFT Aortic Bioprosthesis 4436, CardioGRAFT Aortic Bioprosthesis 4437, CardioGRAFT Pulmonary Bioprosthesis 4438, CardioGRAFT Pulmonary Bioprosthesis 4439, CardioGRAFT Pulmonary Bioprosthesis 4440, Mitroflow Aortic Pericardial Heart Valve 4443, Mitroflow Aortic Pericardial Heart Valve with PRT 4444, Mitroflow Valsalva Conduit 4445, Pericarbon Freedom Stentless 4448, Soprano Armonia 4449, Freedom Solo 4450, Biocor Aortic Valve 4452, Biocor Aortic Valve 4453, Biocor Mitral Valve 4454, Biocor Mitral Valve 4455, Trifecta Stented Valve 4456, Biocor Stented Aortic Valve 4457, Biocor Stented Mitral Valve 4458, Biocor Porcine Stentless Aortic Valve 4459, Biocor Aortic Valve 4460, Biocor Supra Aortic Stented Valve 4462, Epic Aortic Stented Tissue Valve 4463, Epic Aortic Valve 4465, Epic Porcine Aortic Valve with Silzone Coating 4466, Epic Supra Aortic Stented Tissue Valve 4468, Toronto SPV 4476, Toronto SPV II 4477, CryoLife Aortic Valve and Conduit 4478, CryoLife Aortic Valve without Conduit 4479, Homograft valve (manufacturer not specified) 4480, INTUITY Elite Valve 4520, Mosaic Aortic Bioprosthesis 4535, Inspiris Resilia 4592, Perceval Sutureless Aortic Heart Valve 4593, Mitroflow Aortic Pericardial Heart Valve 5283, Avalus 5309, Crown PRT 5318, Pericardial Aortic Bioprosthesis 5456, Blinded - Device Type Unknown 5844	

Element: 14249

Value Set Name: TVT Procedure History Devices

Transcatheter Aortic Valve Replacement Implant ID

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.747

Selections	Selection Dependency
SAPIEN 3 Ultra 4341, Sapien 4356, Sapien XT 4368, CoreValve Evolut R 4503, SAPIEN 3 4507, Evolut PRO 4521, Lotus Edge 4533, Evolut Pro Plus 4534, SAPIEN 3 (research study device) 4538, CoreValve Evolut R (research study device) 4539, CoreValve Evolut PRO (research study device) 4540, Evolut FX 5156, Portico Transcatheter Heart Valve 5164, Portico Transcatheter Heart Valve 5165, Portico Transcatheter Heart Valve 5162, Portico	TVT Pathway (13171) IN (TAVR)



Value Set Member Constraints

Transcatheter Heart Valve | 5163, Portico | 5281, CoreValve Evolut | 5285, CoreValve | 5286, Sapien 3 Ultra Resilia | 5303, Navitor | 5325, INTERNATIONAL SITES ONLY Acurate Neo 2 | 5333, INTERNATIONAL SITES ONLY Myval | 5334, INTERNATIONAL SITES ONLY CoreValve Evolut R | 5347, Navitor Vision | 5413, Evolut FX+ | 5438, Blinded - Device Type Unknown | 5844, Trilog | 5850, Trilog | 5851, Trilog | 5852

Element: 14455

Mitral Ring or Band Implant ID

Value Set Name: TVT Procedure History Devices

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.747

Selections	Selection Dependency
Simulus FLX-O Ring 4339, Simulus FLX-C Band 4369, Simulus Semi-rigid Mitral Annuloplasty Ring 4370, Simulus Adjustable Annuloplasty Ring 4371, Simulus Adjustable Annuloplasty Band 4372, Simulus Semi-Rigid Annuloplasty Ring 4373, TriAd Tricuspid Annuloplasty Ring 4374, Duran Band 4382, Duran Ring 4383, Duran AnCore Band With Chordal Guide 4384, Duran AnCore Ring With Chordal Guide 4386, CG Future Annuloplasty Ring 4388, Profile 3D Annuloplasty Ring 4389, Contour 3D Annuloplasty Ring 4390, Carpentier-McCarthy-Adams IMR ETlogix Mitral Annuloplasty Ring 4408, GeoForm Annuloplasty Ring 4409, Carpentier-Edwards Classic Annuloplasty Ring 4411, Carpentier-Edwards Classic Annuloplasty Ring with DuraFlo Treatment 4412, Carpentier-Edwards Physio Annuloplasty Ring 4413, Carpentier-Edwards Physio Annuloplasty Ring with DuraFlo Treatment 4414, Carpentier-Edwards Classic Annuloplasty Ring 4415, Carpentier-Edwards Classic Annuloplasty Ring with DuraFlo Treatment 4416, Cosgrove-Edwards Annuloplasty Ring 4417, Cosgrove-Edwards Annuloplasty Ring with DuraFlo Treatment 4418, MC3 Annuloplasty Ring 4419, Myxo ETlogix Annuloplasty Ring 4420, Carpentier-Edwards Physio II Annuloplasty Ring 4422, Carpentier-Edwards Physio Annuloplasty Ring 4423, Sovereign Mitral Band 4441, MEMO 3D Semi-rigid Annuloplasty Ring 4442, Carbomedics AnnuloFlex Annuloplasty System 4446, Carbomedics AnnuloFlo Annuloplasty System 4447, Attune Flexible Adjustable Annuloplasty Ring 4451, Rigid Saddle Ring 4470, Seguin Semi-Rigid Annuloplasty Ring 4471, Seguin Annuloplasty Ring with Silzone Coating 4472, Tailor Flexible Annuloplasty Band 4473, Tailor Annuloplasty Ring with Silzone Coating 4474, Tailor Flexible Annuloplasty Ring 4475, CG Future Annuloplasty Band 4587, Blinded - Device Type Unknown 5844	TVT Pathway (13171) IN (TMVR)

Element: 14241

Mitral Valve Replacement Type

Value Set Name: Mitral Valve Replacement Type

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.734

Selections	Selection Dependency
Stented 112000001758, Stentless 112000001760	TVT Pathway (13171) IN (TMVR)

Element: 14241

Mitral Valve Replacement Type

Value Set Name: Mitral Valve Replacement Type

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.734

Selections	Selection Dependency
Mechanical 705991002, Stented 112000001758, Stentless 112000001760	TVT Pathway (13171) IN (TAVR)

Element: 14334

Surgical Mitral Valve Replacement Implant ID

Value Set Name: TVT Procedure History Devices

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.747

Selections	Selection Dependency
Epic Mitral Valve 4337, Contegra Unsupported Pulmonary Valve Conduit 4378, Contegra Supported Pulmonary Valve Conduit 4379, Mosaic Ultra Porcine Aortic Bioprosthesis 4380, Mosaic Mitral Bioprosthesis 4381, Hancock II Mitral Bioprosthesis 4397, Carpentier-Edwards Perimount Magna Ease Pericardial Aortic Bioprosthesis with TheraFix Process 4407, Carpentier-Edwards Bioprosthetic Pulmonic Valved Conduit 4410, Carpentier-Edwards Porcine Mitral Bioprosthesis 4424, Carpentier-Edwards DuraFlex Low Pressure Porcine Bioprosthesis (with Extended Suture Ring) 4425, Carpentier-Edwards DuraFlex Low Pressure Porcine Bioprosthesis 4426, Carpentier-Edwards PERIMOUNT Plus Mitral Bioprosthesis 4427, Carpentier-Edwards PERIMOUNT Theon Mitral Bioprosthesis with TheraFix Process 4428, Carpentier-Edwards PERIMOUNT Magna Mitral Bioprosthesis with Carpentier-Edwards TheraFix Process 4429, Carpentier-Edwards PERIMOUNT Magna Mitral Ease Bioprosthesis with Carpentier-Edwards TheraFix Process 4430, Carpentier-Edwards PERIMOUNT Magna Mitral Ease Pericardial Bioprosthesis with Carpentier-Edwards TheraFix Process 4431, Biocor Mitral Valve 4454, Biocor Mitral Valve 4455, Biocor Stented Mitral Valve 4458, Biocor Mitral Valve 4461, Epic Mitral Stented Tissue Valve 4464, Epic Porcine Mitral Valve with Silzone Coating 4467, Homograft valve (manufacturer not specified) 4480, Mitris Resilia 5771, Blinded - Device Type Unknown 5844	TVT Pathway (13171) IN (TMVR)

Element: 14510

Transcatheter Mitral Valve Replacement Implant ID

Value Set Name: TVT Procedure History Devices

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.747

Selections	Selection Dependency
SAPIEN 3 Ultra 4341, Sapien 4356, Sapien XT 4368, Melody Transcatheter Pulmonary Valve 4394, CoreValve Evolut R 4503, SAPIEN 3 4507, Evolut PRO 4521, Evolut Pro Plus 4534, Evolut FX 5156, Sapien 3 Ultra Resilia 5303, INTERNATIONAL SITES ONLY CoreValve Evolut R 5347, Evolut FX+ 5438, Tendyne 5762, Tendyne 5763, Tendyne 5764, Tendyne 5765, Tendyne 5766, Tendyne 5767, Tendyne LP 5768, Tendyne LP	TVT Pathway (13171) IN (TMVR)



Value Set Member Constraints

5769, Tendyne LP | 5770, Blinded - Device Type Unknown | 5844

Element: 14298

Surgical Tricuspid Valve Replacement Implant ID

Value Set Name: TVT Procedure History Devices

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.747

Selections	Selection Dependency
Carpentier-Edwards Porcine Aortic Bioprosthesis 4335, Mosaic Ultra Porcine Aortic Bioprosthesis 4380, Mosaic Mitral Bioprosthesis 4381, Melody Transcatheter Pulmonary Valve 4394, Hancock II Aortic Bioprosthesis 4395, Hancock II Ultra Aortic Bioprosthesis 4396, Hancock II Mitral Bioprosthesis 4397, Carpentier-Edwards Perimount Pericardial Aortic Bioprosthesis 4401, Carpentier-Edwards Perimount Magna Pericardial Aortic Bioprosthesis 4405, Carpentier-Edwards Perimount Magna Ease Pericardial Aortic Bioprosthesis with TheraFix Process 4407, Carpentier-Edwards Bioprosthetic Pulmonic Valved Conduit 4410, Carpentier-Edwards Classic Annuloplasty Ring with Duraflo Treatment 4416, Carpentier-Edwards Porcine Mitral Bioprosthesis 4424, Carpentier-Edwards PERIMOUNT Plus Mitral Bioprosthesis 4427, Carpentier-Edwards PERIMOUNT Theon Mitral Bioprosthesis with TheraFix Process 4428, Carpentier-Edwards PERIMOUNT Magna Mitral Bioprosthesis with Carpentier-Edwards TheraFix Process 4429, Carpentier-Edwards PERIMOUNT Magna Mitral Ease Pericardial Bioprosthesis with Carpentier-Edwards TheraFix Process 4431, Biocor Stented Mitral Valve 4458, Biocor Porcine Stentless Aortic Valve 4459, Epic Aortic Stented Tissue Valve 4463, Epic Mitral Stented Tissue Valve 4464, Epic Aortic Valve 4465, Inspiris Resilia 4592, Mitris Resilia 5771, Blinded - Device Type Unknown 5844	TVT Pathway (13171) IN (Tricuspid Valve Procedure)

Element: 14301

Transcatheter Tricuspid Valve Replacement Implant ID

Value Set Name: TVT Procedure History Devices

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.747

Selections	Selection Dependency
SAPIEN 3 Ultra 4341, Sapien XT 4368, Melody Transcatheter Pulmonary Valve 4394, SAPIEN 3 4507, Evolut Pro Plus 4534, SAPIEN 3 (research study device) 4538, Sapien 3 Ultra Resilia 5303, EVOQUE 5411, Blinded - Device Type Unknown 5844	TVT Pathway (13171) IN (Tricuspid Valve Procedure)

Element: 14273

Transcatheter Valve Therapy Procedure Type

Value Set Name: Transcatheter Valve Therapy Procedure

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.695

Selections	Selection Dependency
TAVR 41873006	TVT Pathway (13171) IN (TAVR)

Element: 14273

Transcatheter Valve Therapy Procedure Type

Value Set Name: Transcatheter Valve Therapy Procedure

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.695

Selections	Selection Dependency
TMVR 112000001458	TVT Pathway (13171) IN (TMVR)

Element: 14273

Transcatheter Valve Therapy Procedure Type

Value Set Name: Transcatheter Valve Therapy Procedure

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.695

Selections	Selection Dependency
Tricuspid Valve Procedure 112000001977	TVT Pathway (13171) IN (Tricuspid Valve Procedure)

Element: 14273

Transcatheter Valve Therapy Procedure Type

Value Set Name: Transcatheter Valve Therapy Procedure

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.695

Selections	Selection Dependency
TMVr 112000001801	TVT Pathway (13171) IN (TMVr)

Element: 13506

Reason for Aborting Procedure

Value Set Name: Transcatheter Valve Therapy Procedure Aborted Reasons

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.554

Selections	Selection Dependency
Access Related 112000001460, Navigation Issue After Successful Access 112000001461, New Clinical Findings 112000001462, Device or Delivery System Malfunction 112000001463, Patient Clinical Status 112000001464, Consent Issue 112000001465, Transseptal Access Related 112000001466, System Issue 112000001467, Other 100000351	Transcatheter Valve Therapy Procedure Type (14273) IN (TMVr, TMVR)

Element: 13506

Reason for Aborting Procedure

Value Set Name: Transcatheter Valve Therapy Procedure Aborted Reasons

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.554

Selections	Selection Dependency
Access Related 112000001460, Navigation Issue After Successful Access 112000001461, New Clinical Findings 112000001462, Device or Delivery System Malfunction 112000001463, Patient Clinical Status 112000001464, Consent Issue 112000001465, System Issue 112000001467, Other 100000351	Transcatheter Valve Therapy Procedure Type (14273) IN (TAVR, Tricuspid Valve Procedure)

Element: 13543

Reason for Conversion to Open Heart Surgery



Value Set Member Constraints

Value Set Name: Reason for Conversion to Open Heart Surgery

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.513

Selections	Selection Dependency
Access Related 112000001460, Cardiac Tamponade 35304003, Inability to Position Device 112000001479, Device Embolization 112000001324, Valve Injury 762610001, Other 100000351	Transcatheter Valve Therapy Procedure Type (14273) IN (TMVr)

Element: 13543

Reason for Conversion to Open Heart Surgery

Value Set Name: Reason for Conversion to Open Heart Surgery

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.513

Selections	Selection Dependency
Valve Dislodged to Aorta 112000001328, Valve Dislodged to Left Ventricle 112000001329, Annulus Rupture 112000001331, Ventricular Rupture 112000001330, Aortic Dissection 308546005, Coronary Occlusion 63739005, Access Related 112000001460, Cardiac Tamponade 35304003, Inability to Position Device 112000001479, Device Embolization 112000001324, Valve Injury 762610001, Other 100000351	Transcatheter Valve Therapy Procedure Type (14273) IN (TAVR, TMVR, Tricuspid Valve Procedure)

Element: 14485

Transcatheter Aortic Valve Replacement Device ID

Value Set Name: TVT Procedure Devices

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.746

Selections	Selection Dependency
SAPIEN 3 Ultra 4341, Sapien XT 4368, CoreValve Evolut R 4503, SAPIEN 3 4507, Evolut PRO 4521, Evolut Pro Plus 4534, Evolut FX 5156, Portico Transcatheter Heart Valve 5162, Portico Transcatheter Heart Valve 5163, Portico Transcatheter Heart Valve 5164, Portico Transcatheter Heart Valve 5165, Portico 5281, Sapien 3 Ultra Resilia 5303, Navitor 5325, INTERNATIONAL SITES ONLY Acurate Neo 2 5333, INTERNATIONAL SITES ONLY Myval 5334, INTERNATIONAL SITES ONLY CoreValve Evolut R 5347, Navitor Vision 5413, Evolut FX+ 5438, Blinded - Device Type Unknown 5844, Trilogly 5850, Trilogly 5851, Trilogly 5852	Patient Enrolled in Research Study (3020) IN (No (or Not Answered)) AND Transcatheter Valve Therapy Procedure Type (14273) IN (TAVR)

Element: 14485

Transcatheter Aortic Valve Replacement Device ID

Value Set Name: TVT Procedure Devices

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.746

Selections	Selection Dependency
SAPIEN 3 Ultra 4341, Sapien XT 4368, CoreValve Evolut R 4503, SAPIEN 3 4507, Evolut PRO 4521, Evolut Pro Plus 4534, Evolut FX 5156, Portico Transcatheter Heart Valve 5162, Portico Transcatheter Heart Valve 5163, Portico Transcatheter Heart Valve 5164, Portico Transcatheter Heart Valve 5165, Portico 5281, Sapien 3 Ultra Resilia 5303, Navitor 5325, INTERNATIONAL SITES ONLY Acurate Neo 2 5333, INTERNATIONAL SITES ONLY Myval 5334, INTERNATIONAL SITES ONLY CoreValve Evolut R 5347, Navitor Vision 5413, Evolut FX+ 5438, Blinded - Device Type Unknown 5844, Trilogly 5850, Trilogly 5851, Trilogly 5852	Patient Enrolled in Research Study (3020) IN (Yes) AND Transcatheter Valve Therapy Procedure Type (14273) IN (TAVR)

Element: 13795

Steerable Guide Cath Device ID

Value Set Name: TVT Procedure Devices

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.746

Selections	Selection Dependency
Gen 3 Steerable Guide Catheter 4342, Gen 4 Steerable Guide Catheter 4553, Gen 4 Steerable Guide Catheter 5297, MitraClip G5 Steerable Guide Catheter 5746, TriClip G4 Steerable Guide Catheter 5760, Blinded - Device Type Unknown 5844	Patient Enrolled in Research Study (3020) IN (Yes) AND Transcatheter Valve Therapy Procedure Type (14273) IN (TMVr)

Element: 13795

Steerable Guide Cath Device ID

Value Set Name: TVT Procedure Devices

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.746

Selections	Selection Dependency
Gen 3 Steerable Guide Catheter 4342, Gen 4 Steerable Guide Catheter 4553, Gen 4 Steerable Guide Catheter 5297, MitraClip G5 Steerable Guide Catheter 5746, TriClip G4 Steerable Guide Catheter 5760, Blinded - Device Type Unknown 5844	Patient Enrolled in Research Study (3020) IN (No (or Not Answered)) AND Transcatheter Valve Therapy Procedure Type (14273) IN (TMVr)

Element: 13797

Mitral Repair Device ID

Value Set Name: TVT Procedure Devices

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.746

Selections	Selection Dependency
MitraClip NTR Clip Delivery System 4541, MitraClip XTR Clip Delivery System 4542, MitraClip G4 Clip Delivery System NT 4543, MitraClip G4 Clip Delivery System NTW 4544, MitraClip G4 Clip Delivery System XT 4545, MitraClip G4 Delivery System XTW 4546, MitraClip G4 Clip Delivery System NT 5151, MitraClip G4 Clip Delivery System NT 5298, MitraClip G4 Clip Delivery System NTW 5299, MitraClip G4 Clip Delivery System XT 5300, MitraClip G4 Clip Delivery System XTW 5302, PASCAL Precision System - Implant System 5306, PASCAL Precision System - PASCAL Ace Implant System 5307, PASCAL Precision System - Implant System 5310, PASCAL Precision System - PASCAL Ace Implant System 5311, MitraClip G4 Clip Delivery System NT 5314, MitraClip G4 Clip Delivery System NTW 5315, MitraClip G4 Clip Delivery System XTW 5317, MitraClip G4 Clip Delivery System XT 5321, MitraClip G5 Clip Delivery System NT 5742, MitraClip G5 Clip Delivery System NTW 5743, MitraClip G5 Clip Delivery System XT 5744, MitraClip G5 Clip Delivery System XTW 5745, TriClip G4 NT Delivery System 5756, TriClip G4 NTW Delivery System 5757, TriClip G4 XT Delivery	Patient Enrolled in Research Study (3020) IN (Yes) AND Transcatheter Valve Therapy Procedure Type (14273) IN (TMVr)



Value Set Member Constraints

System | 5758, TriClip G4 XTW Delivery System | 5759, Blinded - Device Type Unknown | 5844

Element: 13797

Mitral Repair Device ID

Value Set Name: TVT Procedure Devices

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.746

Selections	Selection Dependency
MitraClip NTR Clip Delivery System 4541, MitraClip XTR Clip Delivery System 4542, MitraClip G4 Clip Delivery System NT 4543, MitraClip G4 Clip Delivery System NTW 4544, MitraClip G4 Valve Therapy Procedure Type (14273) IN (TMVR) Clip Delivery System XT 4545, MitraClip G4 Delivery System XTW 4546, MitraClip G4 Clip Delivery System NT 5151, MitraClip G4 Clip Delivery System NT 5298, MitraClip G4 Clip Delivery System NTW 5299, MitraClip G4 Clip Delivery System XT 5300, MitraClip G4 Clip Delivery System XTW 5302, PASCAL Precision System - Implant System 5306, PASCAL Precision System - PASCAL Ace Implant System 5307, PASCAL Precision System - Implant System 5310, PASCAL Precision System - PASCAL Ace Implant System 5311, MitraClip G4 Clip Delivery System NT 5314, MitraClip G4 Clip Delivery System NTW 5315, MitraClip G4 Clip Delivery System XTW 5317, MitraClip G4 Clip Delivery System XT 5321, MitraClip G5 Clip Delivery System NT 5742, MitraClip G5 Clip Delivery System NTW 5743, MitraClip G5 Clip Delivery System XT 5744, MitraClip G5 Clip Delivery System XTW 5745, TriClip G4 NT Delivery System 5756, TriClip G4 NTW Delivery System 5757, TriClip G4 XT Delivery System 5758, TriClip G4 XTW Delivery System 5759, Blinded - Device Type Unknown 5844	Patient Enrolled in Research Study (3020) IN (No (or Not Answered)) AND Transcatheter

Element: 14484

Transcatheter Mitral Valve Replacement Device ID

Value Set Name: TVT Procedure Devices

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.746

Selections	Selection Dependency
SAPIEN 3 Ultra 4341, Sapien XT 4368, CoreValve Evolut R 4503, SAPIEN 3 4507, Evolut PRO 4521, Evolut Pro Plus 4534, Evolut FX 5156, Sapien 3 Ultra Resilia 5303, INTERNATIONAL SITES ONLY CoreValve Evolut R 5347, Evolut FX+ 5438, Tendyne 5762, Tendyne 5763, Tendyne 5764, Tendyne 5765, Tendyne 5766, Tendyne 5767, Tendyne LP 5768, Tendyne LP 5769, Tendyne LP 5770, SAPIEN M3 5837, Blinded - Device Type Unknown 5844	Patient Enrolled in Research Study (3020) IN (No (or Not Answered)) AND Transcatheter Valve Therapy Procedure Type (14273) IN (TMVR)

Element: 14484

Transcatheter Mitral Valve Replacement Device ID

Value Set Name: TVT Procedure Devices

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.746

Selections	Selection Dependency
SAPIEN 3 Ultra 4341, Sapien XT 4368, CoreValve Evolut R 4503, SAPIEN 3 4507, Evolut PRO 4521, Evolut Pro Plus 4534, Evolut FX 5156, Sapien 3 Ultra Resilia 5303, INTERNATIONAL SITES ONLY CoreValve Evolut R 5347, Evolut FX+ 5438, Tendyne 5762, Tendyne 5763, Tendyne 5764, Tendyne 5765, Tendyne 5766, Tendyne 5767, Tendyne LP 5768, Tendyne LP 5769, Tendyne LP 5770, SAPIEN M3 5837, Blinded - Device Type Unknown 5844	Patient Enrolled in Research Study (3020) IN (Yes) AND Transcatheter Valve Therapy Procedure Type (14273) IN (TMVR)

Element: 14483

Transcatheter Tricuspid Valve Device ID

Value Set Name: TVT Procedure Devices

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.746

Selections	Selection Dependency
SAPIEN 3 Ultra 4341, Sapien XT 4368, Melody Transcatheter Pulmonary Valve 4394, SAPIEN 3 4507, Evolut Pro Plus 4534, MitraClip NTR Clip Delivery System 4541, MitraClip XTR Clip Delivery System 4542, MitraClip G4 Clip Delivery System NT 4543, MitraClip G4 Clip Delivery System NTW 4544, MitraClip G4 Clip Delivery System XT 4545, MitraClip G4 Delivery System XTW 4546, MitraClip G4 Clip Delivery System NT 5151, Sapien 3 Ultra Resilia 5303, PASCAL Precision System - Implant System 5306, PASCAL Precision System - PASCAL Ace Implant System 5307, PASCAL Precision System - Implant System 5310, PASCAL Precision System - PASCAL Ace Implant System 5311, MitraClip G4 Clip Delivery System NT 5314, MitraClip G4 Clip Delivery System NTW 5315, MitraClip G4 Clip Delivery System XTW 5317, MitraClip G4 Clip Delivery System XT 5321, EVOQUE 5411, TriClip G4 NT Clip - AS Location 5441, TriClip G4 NT Clip - PS Location 5442, TriClip G4 NT Clip - AP Location 5443, TriClip G4 NTW Clip - AS Location 5444, TriClip G4 NTW Clip - PS Location 5445, TriClip G4 NTW Clip - AP Location 5446, TriClip G4 XT Clip - AS Location 5447, TriClip G4 XT Clip - PS Location 5448, TriClip G4 XT Clip - AP Location 5449, TriClip G4 XTW Clip - AS Location 5450, TriClip G4 XTW Clip - PS Location 5451, TriClip G4 XTW Clip - AP Location 5452, TriClip G5 NT Clip - AS Location 5561, TriClip G5 NT Clip - PS Location 5562, TriClip G5 NT Clip - AP Location 5563, TriClip G5 NTW Clip - AS Location 5564, TriClip G5 NTW Clip - PS Location 5565, TriClip G5 NTW Clip - AP Location 5566, TriClip G5 XT Clip - AS Location 5567, TriClip G5 XT Clip - PS Location 5568, TriClip G5 XT Clip - AP Location 5569, TriClip G5 XTW Clip - AS Location 5570, TriClip G5 XTW Clip - PS Location 5571, TriClip G5 XTW Clip - AP Location 5572, MitraClip G5 Clip Delivery System NT 5742, MitraClip G5 Clip Delivery System NTW 5743, MitraClip G5 Clip Delivery System XT 5744, MitraClip G5 Clip Delivery System XTW 5745, TriClip G5 NT Clip - AS Location 5789, TriClip G5 NT Clip - PS Location 5790, TriClip G5 NT Clip - AP Location 5791, TriClip G5 NTW Clip - AS Location 5792, TriClip G5 NTW Clip - PS Location 5793, TriClip G5 NTW Clip - AP Location 5794, TriClip G5 XT Clip - AS Location 5795, TriClip G5 XT Clip - PS Location 5796, TriClip G5 XT Clip - AP Location 5797, TriClip G5 XTW Clip - AS Location 5798, TriClip	Patient Enrolled in Research Study (3020) IN (No (or Not Answered)) AND Transcatheter Valve Therapy Procedure Type (14273) IN (Tricuspid Valve Procedure)



Value Set Member Constraints

G5 XTW Clip - PS Location | 5799, TriClip G5 XTW Clip - AP Location | 5800, Blinded - Device Type Unknown | 5844

Element: 14483

Transcatheter Tricuspid Valve Device ID

Value Set Name: TVT Procedure Devices

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.746

Selections	Selection Dependency
SAPIEN 3 Ultra 4341, Sapien XT 4368, Melody Transcatheter Pulmonary Valve 4394, SAPIEN 3 4507, Evolut Pro Plus 4534, MitraClip NTR Clip Delivery System 4541, MitraClip XTR Clip Delivery System 4542, MitraClip G4 Clip Delivery System NT 4543, MitraClip G4 Clip Delivery System NTW 4544, MitraClip G4 Clip Delivery System XT 4545, MitraClip G4 Delivery System XTW 4546, MitraClip G4 Clip Delivery System NT 5151, Sapien 3 Ultra Resilia 5303, PASCAL Precision System - Implant System 5306, PASCAL Precision System - PASCAL Ace Implant System 5307, PASCAL Precision System - Implant System 5310, PASCAL Precision System - PASCAL Ace Implant System 5311, MitraClip G4 Clip Delivery System NT 5314, MitraClip G4 Clip Delivery System NTW 5315, MitraClip G4 Clip Delivery System XTW 5317, MitraClip G4 Clip Delivery System XT 5321, EVOQUE 5411, TriClip G4 NT Clip - AS Location 5441, TriClip G4 NT Clip - PS Location 5442, TriClip G4 NT Clip - AP Location 5443, TriClip G4 NTW Clip - AS Location 5444, TriClip G4 NTW Clip - PS Location 5445, TriClip G4 NTW Clip - AP Location 5446, TriClip G4 XT Clip - AS Location 5447, TriClip G4 XT Clip - PS Location 5448, TriClip G4 XT Clip - AP Location 5449, TriClip G4 XTW Clip - AS Location 5450, TriClip G4 XTW Clip - PS Location 5451, TriClip G4 XTW Clip - AP Location 5452, TriClip G5 NT Clip - AS Location 5561, TriClip G5 NT Clip - PS Location 5562, TriClip G5 NT Clip - AP Location 5563, TriClip G5 NTW Clip - AS Location 5564, TriClip G5 NTW Clip - PS Location 5565, TriClip G5 NTW Clip - AP Location 5566, TriClip G5 XT Clip - AS Location 5567, TriClip G5 XT Clip - PS Location 5568, TriClip G5 XT Clip - AP Location 5569, TriClip G5 XTW Clip - AS Location 5570, TriClip G5 XTW Clip - PS Location 5571, TriClip G5 XTW Clip - AP Location 5572, MitraClip G5 Clip Delivery System NT 5742, MitraClip G5 Clip Delivery System NTW 5743, MitraClip G5 Clip Delivery System XT 5744, MitraClip G5 Clip Delivery System XTW 5745, TriClip G5 NT Clip - AS Location 5789, TriClip G5 NT Clip - PS Location 5790, TriClip G5 NT Clip - AP Location 5791, TriClip G5 NTW Clip - AS Location 5792, TriClip G5 NTW Clip - PS Location 5793, TriClip G5 NTW Clip - AP Location 5794, TriClip G5 XT Clip - AS Location 5795, TriClip G5 XT Clip - PS Location 5796, TriClip G5 XT Clip - AP Location 5797, TriClip G5 XTW Clip - AS Location 5798, TriClip G5 XTW Clip - PS Location 5799, TriClip G5 XTW Clip - AP Location 5800, Blinded - Device Type Unknown 5844	Patient Enrolled in Research Study (3020) IN (Yes) AND Transcatheter Valve Therapy Procedure Type (14273) IN (Tricuspid Valve Procedure)

Element: 12153

Intra or Post Procedure Events

Value Set Name: Intra or Post Procedure Events

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.706

Selections	Selection Dependency
Annular Rupture 112000001835, Atrial Fibrillation 49436004, Bleeding - Access Site 1000142440, Bleeding - Gastrointestinal 74474003, Bleeding - Genitourinary 417941003, Bleeding - Hematoma at Access Site 385494008, Bleeding - Other 1000142371, Bleeding - Retroperitoneal 95549001, Cardiac Arrest 410429000, Cardiac Perforation 36191001:123005000=302509004, Cardiac Surgery or Intervention - Other Unplanned 112000001892, Complete Leaflet Clip Detachment 112000001840, Coronary Artery Compression 112000001837, COVID-19 Positive 112000001982, Device Embolization 112000001324, Device Migration 370512004, Device Related Event - Other 112000001828, Device Thrombosis 112000001839, Dialysis (New Requirement) 100014076, Endocarditis 56819008, ICD ACC-NCDR-ICD, Myocardial Infarction 22298006, Pacemaker Lead Dislodgement or Dysfunction 112000001884, Percutaneous Coronary Intervention 415070008, Permanent Pacemaker 449397007, Pulmonary Embolism 59282003, Reintervention - Tricuspid Valve 112000001820, Single Leaflet Device Attachment 112000001538, Stroke - Hemorrhagic 230706003, Stroke - Ischemic 422504002, Stroke - Undetermined 230713003, Transient Ischemic Attack (TIA) 266257000, Tricuspid Leaflet or Subvalvular Injury 112000004338, Vascular Complication - Major 112000000460, Vascular Complication - Minor 112000001823, Vascular Surgery or Intervention - Unplanned 112000000467	Transcatheter Valve Therapy Procedure Type (14273) IN (Tricuspid Valve Procedure) AND TVT Pathway (13171) IN (Tricuspid Valve Procedure)

Element: 12153

Intra or Post Procedure Events

Value Set Name: Intra or Post Procedure Events

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.706

Selections	Selection Dependency
ASD Defect Closure due to Transseptal Catheterization 112000001885, Atrial Fibrillation 49436004, Bleeding - Access Site 1000142440, Bleeding - Gastrointestinal 74474003, Bleeding - Genitourinary 417941003, Bleeding - Hematoma at Access Site 385494008, Bleeding - Other 1000142371, Bleeding - Retroperitoneal 95549001, Cardiac Arrest 410429000, Cardiac Perforation 36191001:123005000=302509004, Cardiac Surgery or Intervention - Other Unplanned 112000001892, COVID-19 Positive 112000001982, Device Embolization 112000001324, Device Migration 370512004, Device Related Event - Other 112000001828, Device Thrombosis 112000001839, Dialysis (New Requirement) 100014076, Endocarditis 56819008, ICD ACC-NCDR-ICD, Left Ventricular Outflow Tract Obstruction 253546004, Myocardial Infarction 22298006, Permanent Pacemaker 449397007, Reintervention - Mitral Valve 112000001893, Stroke - Hemorrhagic 230706003, Stroke - Ischemic 422504002, Stroke - Undetermined 230713003, Transient Ischemic Attack (TIA) 266257000, Transseptal Complication 112000001833, Vascular Complication -	Transcatheter Valve Therapy Procedure Type (14273) IN (TMVR) AND TVT Pathway (13171) IN (TMVR)



Value Set Member Constraints

Major | 112000000460, Vascular Complication - Minor | 112000001823, Vascular Surgery or Intervention - Unplanned | 112000000467

Element: 12153

Intra or Post Procedure Events

Value Set Name: Intra or Post Procedure Events

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.706

Selections	Selection Dependency
Annular Rupture 112000001835, Aortic Dissection 308546005, Atrial Fibrillation 49436004, Bleeding - Access Site 1000142440, Bleeding - Gastrointestinal 74474003, Bleeding - Genitourinary 417941003, Bleeding - Hematoma at Access Site 385494008, Bleeding - Other 1000142371, Bleeding - Retroperitoneal 95549001, Cardiac Arrest 410429000, Cardiac Perforation 36191001:123005000=302509004, Cardiac Surgery or Intervention - Other Unplanned 112000001892, Coronary Artery Compression 112000001837, COVID-19 Positive 112000001982, Device Embolization 112000001324, Device Migration 370512004, Device Related Event - Other 112000001828, Device Thrombosis 112000001839, Dialysis (New Requirement) 100014076, Endocarditis 56819008, ICD ACC-NCDR-ICD, Myocardial Infarction 22298006, Percutaneous Coronary Intervention 415070008, Permanent Pacemaker 449397007, Reintervention - Aortic Valve 112000001827, Stroke - Hemorrhagic 230706003, Stroke - Ischemic 422504002, Stroke - Undetermined 230713003, Transient Ischemic Attack (TIA) 266257000, Vascular Complication - Major 112000000460, Vascular Complication - Minor 112000001823, Vascular Surgery or Intervention - Unplanned 112000000467	Transcatheter Valve Therapy Procedure Type (14273) IN (TAVR) AND TVT Pathway (13171) IN (TAVR)

Element: 12153

Intra or Post Procedure Events

Value Set Name: Intra or Post Procedure Events

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.706

Selections	Selection Dependency
ASD Defect Closure due to Transseptal Catheterization 112000001885, Atrial Fibrillation 49436004, Bleeding - Access Site 1000142440, Bleeding - Gastrointestinal 74474003, Bleeding - Genitourinary 417941003, Bleeding - Hematoma at Access Site 385494008, Bleeding - Other 1000142371, Bleeding - Retroperitoneal 95549001, Cardiac Arrest 410429000, Cardiac Perforation 36191001:123005000=302509004, Cardiac Surgery or Intervention - Other Unplanned 112000001892, Complete Leaflet Clip Detachment 112000001840, COVID-19 Positive 112000001982, Delivery System Component Embolization 112000001841, Device Embolization 112000001324, Device Related Event - Other 112000001828, Device Thrombosis 112000001839, Dialysis (New Requirement) 100014076, Endocarditis 56819008, Mitral Leaflet or Subvalvular Injury 112000001886, Myocardial Infarction 22298006, Permanent Pacemaker 449397007, Reintervention - Mitral Valve 112000001893, Single Leaflet Device Attachment 112000001538, Stroke - Hemorrhagic 230706003, Stroke - Ischemic 422504002, Stroke - Undetermined 230713003, Transient Ischemic Attack (TIA) 266257000, Transseptal Complication 112000001833, Vascular Complication - Major 112000000460, Vascular Complication - Minor 112000001823, Vascular Surgery or Intervention - Unplanned 112000000467	Transcatheter Valve Therapy Procedure Type (14273) IN (TMVr) AND TVT Pathway (13171) IN (TMVr)

Element: 14352

Discharge Location After Event

Value Set Name: Discharge Location

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.41

Selections	Selection Dependency
Home 01, Skilled Nursing Facility 03, Extended Care/TCU/Rehab 62, Other Discharge Location 100001249	Status (14314) IN (Alive)

Element: 14361

Mitral Valve Reintervention Indication

Value Set Name: Valve Reintervention Indication

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.720

Selections	Selection Dependency
Regurgitation 40445007, Stenosis 44241007, Device Embolization 112000001324, Endocarditis 56819008, Device Thrombosis 112000001839, Valve Injury 762610001, Other 100000351	Transcatheter Valve Therapy Procedure Type (14273) IN (TMVr, TMVR)

Element: 10200

Discharge Medication Code

Value Set Name: Discharge Medication

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.165

Selections	Selection Dependency
Angiotensin Converting Enzyme Inhibitor 41549009, Aldosterone Antagonist 372603003, Direct thrombin inhibitor 414010005, Warfarin 11289, Aspirin 1191, Angiotensin II Receptor Blocker 372913009, Beta Blocker 33252009, Diuretics Not Otherwise Specified 112000001417, Loop Diuretics 29051009, Thiazides 372747003, Direct Factor Xa Inhibitor 112000000696, P2Y12 Antagonist 112000001003	TVT Pathway (13171) IN (TMVr, TMVR, Tricuspid Valve Procedure)

Element: 10200

Discharge Medication Code

Value Set Name: Discharge Medication

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.165

Selections	Selection Dependency
Direct thrombin inhibitor 414010005, Warfarin 11289, Aspirin 1191, Direct Factor Xa Inhibitor 112000000696, P2Y12 Antagonist 112000001003	TVT Pathway (13171) IN (TAVR)



Value Set Member Constraints

Element: 12933

Value Set Name: Follow Up Events

Follow-up Event Name

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.356

Selections	Selection Dependency
ASD Defect Closure due to Transseptal Catheterization 112000001885, Atrial Fibrillation 49436004, Bleeding - Life Threatening 112000000459, Bleeding - Major 112000001889, Cardiac Surgery or Intervention - Other Unplanned 112000001892, COVID-19 Positive 112000001982, Device Embolization 112000001324, Device Thrombosis 112000001839, Device Related Event - Other 112000001828, Dialysis (New Requirement) 100014076, Endocarditis 56819008, Myocardial Infarction 22298006, Permanent Pacemaker 449397007, Readmission - Cardiac (Not Heart Failure) 112000001897, Readmission - Heart Failure 112000001896, Readmission - Non-Cardiac 112000001898, Reintervention - Mitral Valve 112000001893, Single Leaflet Device Attachment 112000001538, Stroke - Ischemic 422504002, Stroke - Hemorrhagic 230706003, Stroke - Undetermined 230713003, Transient Ischemic Attack (TIA) 266257000, Vascular Complication - Major 112000000460, Vascular Complication - Minor 112000001823, Vascular Surgery or Intervention - Unplanned 112000000467	Transcatheter Valve Therapy Reference Procedure Type (13705) IN (TMVr)

Element: 12933

Value Set Name: Follow Up Events

Follow-up Event Name

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.356

Selections	Selection Dependency
Atrial Fibrillation 49436004, Bleeding - Life Threatening 112000000459, Bleeding - Major 112000001889, Cardiac Surgery or Intervention - Other Unplanned 112000001892, COVID-19 Positive 112000001982, Device Embolization 112000001324, Device Fracture 112000001891, Device Thrombosis 112000001839, Dialysis (New Requirement) 100014076, Endocarditis 56819008, ICD ACC-NCDR-ICD, Myocardial Infarction 22298006, PCI 415070008, Permanent Pacemaker 449397007, Readmission - (Non-Valve Related) 112000001895, Readmission (Valve Related) 112000001894, Reintervention - Aortic Valve 112000001827, Stroke - Ischemic 422504002, Stroke - Hemorrhagic 230706003, Stroke - Undetermined 230713003, Transient Ischemic Attack (TIA) 266257000, Vascular Complication - Major 112000000460, Vascular Complication - Minor 112000001823, Vascular Surgery or Intervention - Unplanned 112000000467	Transcatheter Valve Therapy Reference Procedure Type (13705) IN (TAVR)

Element: 12933

Value Set Name: Follow Up Events

Follow-up Event Name

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.356

Selections	Selection Dependency
Atrial Fibrillation 49436004, Bleeding - Life Threatening 112000000459, Bleeding - Major 112000001889, Cardiac Surgery or Intervention - Other Unplanned 112000001892, Complete Leaflet Clip Detachment 112000001840, COVID-19 Positive 112000001982, Deep Vein Thrombosis 128053003, Device Embolization 112000001324, Device Fracture 112000001891, Device Migration 370512004, Device Thrombosis 112000001839, Device Related Event - Other 112000001828, Dialysis (New Requirement) 100014076, Endocarditis 56819008, ICD ACC-NCDR-ICD, Myocardial Infarction 22298006, PCI 415070008, Permanent Pacemaker 449397007, Pulmonary Embolism 59282003, Readmission - (Non-Valve Related) 112000001895, Readmission (Valve Related) 112000001894, Readmission - Heart Failure 112000001896, Reintervention - Tricuspid Valve 112000001820, Single Leaflet Device Attachment 112000001538, Stroke - Ischemic 422504002, Stroke - Hemorrhagic 230706003, Stroke - Undetermined 230713003, Transient Ischemic Attack (TIA) 266257000, Vascular Complication - Major 112000000460, Vascular Complication - Minor 112000001823, Vascular Surgery or Intervention - Unplanned 112000000467	Transcatheter Valve Therapy Reference Procedure Type (13705) IN (Tricuspid Valve Procedure)

Element: 12933

Value Set Name: Follow Up Events

Follow-up Event Name

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.356

Selections	Selection Dependency
ASD Defect Closure due to Transseptal Catheterization 112000001885, Atrial Fibrillation 49436004, Bleeding - Life Threatening 112000000459, Bleeding - Major 112000001889, Cardiac Surgery or Intervention - Other Unplanned 112000001892, COVID-19 Positive 112000001982, Device Embolization 112000001324, Device Fracture 112000001891, Device Migration 370512004, Device Thrombosis 112000001839, Device Related Event - Other 112000001828, Dialysis (New Requirement) 100014076, Endocarditis 56819008, ICD ACC-NCDR-ICD, Myocardial Infarction 22298006, Permanent Pacemaker 449397007, Readmission - Cardiac (Not Heart Failure) 112000001897, Readmission - Heart Failure 112000001896, Readmission - Non-Cardiac 112000001898, Reintervention - Mitral Valve 112000001893, Stroke - Ischemic 422504002, Stroke - Hemorrhagic 230706003, Stroke - Undetermined 230713003, Transient Ischemic Attack (TIA) 266257000, Vascular Complication - Major 112000000460, Vascular Complication - Minor 112000001823, Vascular Surgery or Intervention - Unplanned 112000000467	Transcatheter Valve Therapy Reference Procedure Type (13705) IN (TMVR)

Element: 14420

Value Set Name: Discharge Location

Discharge Location After Event

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.41

Selections	Selection Dependency
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Value Set Member Constraints

Home | 01, Skilled Nursing Facility | 03, Extended Care/TCU/Rehab | 62, Other Discharge
Location | 100001249

Status (14387) IN (Alive)

Element: 14406

Mitral Valve Reintervention Indication

Value Set Name: Valve Reintervention Indication

OID: 1.3.6.1.4.1.19376.1.4.1.6.5.720

Selections

Selection Dependency

Regurgitation | 40445007, Stenosis | 44241007, Device Embolization | 112000001324,
Endocarditis | 56819008, Device Thrombosis | 112000001839, Valve Injury | 762610001,
Other | 100000351

Transcatheter Valve Therapy Reference Procedure Type (13705) IN (TMVr, TMVR)

Element: 11990

Follow-Up Medications Code

Value Set Name: Follow-up Medication

OID: 2.16.840.1.113883.3.3478.6.5.203

Selections

Selection Dependency

Direct thrombin inhibitor | 414010005, Warfarin | 11289, Aspirin | 1191, Direct Factor Xa
Inhibitor | 112000000696, P2Y12 Antagonist | 112000001003

Transcatheter Valve Therapy Reference Procedure Type (13705) IN (TAVR)

Element: 11990

Follow-Up Medications Code

Value Set Name: Follow-up Medication

OID: 2.16.840.1.113883.3.3478.6.5.203

Selections

Selection Dependency

Angiotensin Converting Enzyme Inhibitor | 41549009, Aldosterone Antagonist | 372603003,
Direct thrombin inhibitor | 414010005, Warfarin | 11289, Aspirin | 1191, Angiotensin II
Receptor Blocker | 372913009, Beta Blocker | 33252009, Diuretics Not Otherwise Specified |
112000001417, Loop Diuretics | 29051009, Thiazides | 372747003, Direct Factor Xa Inhibitor |
112000000696, P2Y12 Antagonist | 112000001003

Transcatheter Valve Therapy Reference Procedure Type (13705) IN (TMVr, TMVR, Tricuspid
Valve Procedure)



Section Containment Structure

Container Class	Section	Section Code	Section Type	Cardinality
patientContainer	Demographics	DEMOGRAPHICS	Section	1..1
episodeContainer	Episode of Care	EOC	Section	1..1
episodeContainer	Episode Information	EOCINFO	Section	1..1
episodeContainer	Admitting Providers	ADMTPROV	Section	0..1
episodeContainer	Attending Providers	ATTNPROV	Repeater Section	0..n
episodeContainer	Research Study	RSTUDY	Repeater Section	0..n
episodeContainer	History and Risk Factors	HISTORYANDRISK	Section	1..1
episodeContainer	Home Medications	HOMEMEDS	Repeater Section	0..n
episodeContainer	Condition History	CONDHIS	Repeater Section	1..n
episodeContainer	Condition History Details	CONDHISTDET	Section	0..1
episodeContainer	Atrial Fibrillation	AFib	Section	0..1
episodeContainer	Atrial Flutter	AFLUTTER	Section	0..1
episodeContainer	Carotid Artery Stenosis	CASTENOSIS	Section	0..1
episodeContainer	Cardiomyopathy	CARDIOM	Section	0..1
episodeContainer	Chronic Lung Disease	CLUNGD	Section	0..1
episodeContainer	Diabetes Therapy	DIABTHER	Section	0..1
episodeContainer	Endocarditis	ENDOCTIS	Section	0..1
episodeContainer	Myocardial Infarction	MITMEFME	Section	0..1
episodeContainer	Procedure History	PROCHIST	Repeater Section	1..n
episodeContainer	Procedure History Details	PROCHISTDET	Section	0..1
episodeContainer	Aortic Valve Replacement	AVREPL	Section	0..1
episodeContainer	Transcatheter AV Replacement	TRAVREPLIMP	Section	0..1
episodeContainer	ICD	ICD	Section	0..1
episodeContainer	Mitral Valve Annuloplasty	MVANUPLSTY	Section	0..1
episodeContainer	Mitral Valve Replacement	MVREPLC	Section	0..1
episodeContainer	Mitral Valve Transcatheter	MVTRANS	Section	0..1
episodeContainer	Permanent Pacemaker	PERMPACE	Section	0..1
episodeContainer	Tricuspid Valve Repair Surgery	TVREPAIR	Section	0..1
episodeContainer	Tricuspid Valve Intervention	TVINTVN	Section	0..1
episodeContainer	Tricuspid Valve Replacement Surgery	SURTVREPL	Section	0..1
episodeContainer	Transcatheter TV Replacement	TTVREPLC	Section	0..1
episodeContainer	Lab Visit	labvisit	Repeater Section	1..n
episodeContainer	Presentation and Evaluation	PREEVAL	Section	1..1
episodeContainer	STS Risk Score	STSRISK	Repeater Section	0..n
episodeContainer	Shared Decision Making	SDM	Section	0..1
episodeContainer	KCCQ12	BASEKCCQ	Section	0..1
episodeContainer	Five Meter Walk Test	FIVEMWT	Repeater Section	0..n
episodeContainer	Six Minute Walk Test	SIXMWT	Section	0..1
episodeContainer	Pre-Procedure Clinical Data	PREPROCCLABS	Section	0..1
episodeContainer	Pre-Procedure ECG and Pulmonary Function	PREPROCULMONARY	Section	0..1
episodeContainer	Pre-Procedure Medication(s)	PREPROCMED	Section	0..1
episodeContainer	Pre-Procedure Diagnostic Cath Findings	PREPROCDCX	Section	0..1
episodeContainer	Pre-Procedure CTA Findings	PREPROCCTA	Section	0..1
episodeContainer	Pre-Procedure Echocardiogram Findings	PREPROCECHO	Section	0..1
episodeContainer	Left Ventricular Ejection	LVEF	Section	0..1
episodeContainer	Left Ventricular Dimension	LVEFDM	Section	0..1
episodeContainer	Left Atrial Volume	LEFTATVOL	Section	0..1
episodeContainer	Aortic Valve Disease Etiology	ARVALETIOLOGY	Section	0..1
episodeContainer	Mitral Valve Disease	MVDisease	Section	0..1
episodeContainer	Mitral Valve Disease Etiology	MVEtiology	Section	0..1
episodeContainer	Tricuspid Valve Disease Etiology	TMVEtiology	Section	0..1
episodeContainer	Pre-Procedure Dobutamine Challenge	DOBUSTTST	Section	0..1
episodeContainer	Procedure Information	PROCINFO	Section	1..1
episodeContainer	Operator Information	OPRTRINFO	Repeater Section	0..n
episodeContainer	Radiation and Contrast	RADIATION	Section	0..1
episodeContainer	Post Implant Mitral Valve Data	POSTIMPMV	Section	0..1
episodeContainer	TAVR	TAVR	Section	0..1
episodeContainer	TAVR Devices	TAVRDEV	Repeater Section	0..n
episodeContainer	TMVr	TMVRpr	Section	0..1
episodeContainer	Mitral Leaflet Devices	MLEAFDEVICES	Repeater Section	0..n
episodeContainer	TMVR	TMVR	Section	0..1
episodeContainer	TMVR Devices	TMVRDEVICES	Repeater Section	0..n
episodeContainer	TTVP	TTVP	Section	0..1
episodeContainer	TTVP Pre-Implant	TTVPPREIMP	Section	0..1
episodeContainer	TTVP Post-Implant	TTVPPOSTIMP	Section	0..1
episodeContainer	TTVP Devices	TTVPDEVICE	Repeater Section	0..n
episodeContainer	Post-Procedure - Intra or Post-Procedure Events	POPEVENTS	Repeater Section	1..n
episodeContainer	In-Hospital Event Information	HOSPEVEADJ	Repeater Section	0..n



Section Containment Structure

Container Class	Section	Section Code	Section Type	Cardinality
episodeContainer	Stroke Or TIA	SRKRTIA	Section	0..1
episodeContainer	AV Re-Intervention	AVREINTVN	Section	0..1
episodeContainer	MV Re-Intervention	MVREINTVN	Section	0..1
episodeContainer	Tricuspid Valve Re-Intervention	TTVRREINTVN	Section	0..1
episodeContainer	Post-Procedure	POSTPROC	Section	0..1
episodeContainer	Post-Procedure Clinical Data	POPCLIDATA	Section	0..1
episodeContainer	Post-Procedure Hemoglobin	POSTPROCHEM	Section	0..1
episodeContainer	Post-Procedure 12 Lead	POSTPROC12L	Section	0..1
episodeContainer	Post-Procedure Creatinine	POSTPROCRT	Section	0..1
episodeContainer	Post-Procedure Highest Creatinine	POPPOCHIGHCR	Section	0..1
episodeContainer	Post-Procedure Echocardiogram Findings	POSTPROCECHO	Section	0..1
episodeContainer	Post-Procedure AV Regurgitation	POPAVREG	Section	0..1
episodeContainer	Post-Procedure MV Regurgitation	POPMVREG	Section	0..1
episodeContainer	Post-Procedure TV Regurgitation	POPTVREG	Section	0..1
episodeContainer	Discharge	DISCHARGE	Section	1..1
episodeContainer	Discharge Medications	DISCMED	Repeater Section	0..n
followupContainer	Follow Up	FOLLOWUP	Section	1..1
followupContainer	Follow-Up Clinical Assessment	FUPCLINASMT	Section	0..1
followupContainer	Follow-Up Echocardiogram	FUPECHO	Section	0..1
episodeContainer	Follow-Up Imaging	IMGPERF	Section	0..1
episodeContainer	Follow-Up Aortic Valve	AVVALVE	Section	0..1
followupContainer	Follow-Up AV Regurgitation	FPOPAVREG	Section	0..1
episodeContainer	Follow-Up MV Imaging	MVIMG	Section	0..1
followupContainer	Follow-Up MV Regurgitation	FPOPMVREG	Section	0..1
episodeContainer	Follow-Up TV Imaging	TVREG	Section	0..1
episodeContainer	Follow-Up TV Regurgitation	FPOPTVREG	Section	0..1
followupContainer	Follow-Up 4DCTA	FCTAFindings	Section	0..1
followupContainer	Follow-Up Six Minute Walk Test	FSIXMIN	Section	0..1
followupContainer	Follow-Up KCCQ	FKCCQ	Section	0..1
followupContainer	Follow-Up Events	FUPEVENTS	Repeater Section	0..n
followupContainer	Follow-Up Event Information	FADJ	Repeater Section	0..n
followupContainer	Follow-Up Stroke or TIA	FSTRKTIA	Section	0..1
followupContainer	Follow-Up AV Re-Intervention	FAVREINTVN	Section	0..1
followupContainer	Follow-Up MV Re-Intervention	FMVREINTVN	Section	0..1
followupContainer	Follow-up Readmission	FREADMISSION	Section	0..1
followupContainer	Follow-Up Tricuspid Valve Re-Intervention	FTTVRREINTVN	Section	0..1
followupContainer	Follow-Up Medications	FUPMEDS	Repeater Section	0..n
submissionInfoContainer	Administration	ADMIN	Section	1..1



Reference Code System Listing

Code System Name	Code System
ACC NCDR	2.16.840.1.113883.3.3478.6.1
United States Social Security Number (SSN)	2.16.840.1.113883.4.1
HL7 Race	2.16.840.1.113883.5.104
HL7 Ethnicity	2.16.840.1.113883.5.50
SNOMED CT	2.16.840.1.113883.6.96
LOINC	2.16.840.1.113883.6.1
ACC NCDR EP Devices	2.16.840.1.113883.3.3478.6.1.21
ACC NCDR Lead Devices	2.16.840.1.113883.3.3478.6.1.20
ACC NCDR Catheter Ablation Devices	2.16.840.1.113883.3.3478.6.1.22
PHDSC	2.16.840.1.113883.3.221.5
HL7 Administrative Gender	2.16.840.1.113883.5.1
HL7NullFlavor	2.16.840.1.113883.5.1008
HL7 Discharge disposition	2.16.840.1.113883.12.112
RxNorm	2.16.840.1.113883.6.88
USPostalCodes	2.16.840.1.113883.6.231
ACC NCDR Intracoronary Devices	2.16.840.1.113883.3.3478.6.1.101
Centers for Medicare & Medicaid Services	2.16.840.1.113883.4.927
clinicaltrials.gov	2.16.840.1.113883.3.1077