



Section: Demographics

Parent: Root

Element: 2000	Last Name	Technical Specification
<b>Coding Instruction:</b>	Indicate the patient's last name. Hyphenated names should be recorded with a hyphen.	<b>Code:</b> 1000142463
<b>Target Value:</b>	The value on arrival at this facility	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> LastName
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> LN
		<b>Precision:</b> 50
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User

Element: 2010	First Name	Technical Specification
<b>Coding Instruction:</b>	Indicate the patient's first name.	<b>Code:</b> 1000142463
<b>Target Value:</b>	The value on arrival at this facility	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> FirstName
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> FN
		<b>Precision:</b> 50
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User

Element: 2020	Middle Name	Technical Specification
<b>Coding Instruction:</b>	Indicate the patient's middle name.	<b>Code:</b> 1000142463
	<b>Note(s):</b> It is acceptable to specify the middle initial.	<b>Code System Name:</b> ACC NCDR
	If there is no middle name given, leave field blank.	<b>Short Name:</b> MidName
	If there are multiple middle names, enter all of the middle names sequentially.	<b>Missing Data:</b> Report
	If the name exceeds 50 characters, enter the first 50 letters only.	<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
<b>Target Value:</b>	The value on arrival at this facility	<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> MN
		<b>Precision:</b> 50
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User



**Section: Demographics** **Parent: Root**

Element: 2050	Birth Date	Technical Specification
<b>Coding Instruction:</b> Indicate the patient's date of birth.		<b>Code:</b> 1000142447
<b>Target Value:</b> The value on arrival at this facility		<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> DOB
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> DT
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User

Element: 2030	SSN	Technical Specification
<b>Coding Instruction:</b> Indicate the patient's United States Social Security Number (SSN).		<b>Code:</b> 2.16.840.1.113883.4.1
<b>Note(s):</b> If the patient does not have a US Social Security Number (SSN), leave blank and check 'SSN NA'.		<b>Code System Name:</b> United States Social Security Number (SSN)
<b>Target Value:</b> The value on arrival at this facility		<b>Short Name:</b> SSN
<b>Vendor Instruction:</b> Patient's SSN must be 9 numeric characters long		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> ST
		<b>Precision:</b> 9
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User

Parent/Child Validation
<b>Element:</b> 2031 SSN N/A
<b>Operator:</b> Equal
<b>Value:</b> No (or Not Answered)

Element: 2031	SSN N/A	Technical Specification
<b>Coding Instruction:</b> Indicate if the patient does not have a United States Social Security Number (SSN).		<b>Code:</b> 2.16.840.1.113883.4.1
<b>Target Value:</b> The value on arrival at this facility		<b>Code System Name:</b> United States Social Security Number (SSN)
		<b>Short Name:</b> SSNNA
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User



**Section: Demographics** **Parent: Root**

<b>Element:</b> 2040	Patient ID	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the number created and automatically inserted by the software that uniquely identifies this patient.	<b>Code:</b> 2.16.840.1.113883.3.3478.4.842
	<b>Note(s):</b> 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.	<b>Code System Name:</b> ACC NCDR
<b>Target Value:</b>	The value on arrival at this facility	<b>Short Name:</b> NCDRPatientID
		<b>Missing Data:</b> Illegal
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> Yes
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> NUM
		<b>Precision:</b> 9
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b> 1 - 999,999,999
		<b>Data Source:</b> Automatic

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

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



Section: Demographics

Parent: Root

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

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

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



**Section: Demographics** **Parent: Root**

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

Element: 2073	Race - American Indian/Alaskan Native	Technical Specification
<p><b>Coding Instruction:</b> Indicate if the patient is American Indian or Alaskan Native as determined by the patient/family.</p> <p>Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one.</p> <p><b>Target Value:</b> The value on arrival at this facility</p> <p><b>Supporting Definition: American Indian or Alaskan Native (race)</b> Having origins in any of the original peoples of North and South America (including Central America), and who maintains tribal affiliation or community attachment. <b>Source:</b> U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity</p>		<p><b>Code:</b> 1002-5</p> <p><b>Code System Name:</b> HL7 Race</p> <p><b>Short Name:</b> RaceAmIndian</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> BL</p> <p><b>Precision:</b></p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p>

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



**Section: Demographics** **Parent: Root**

<b>Element:</b> 2080	Race - Asian Indian	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the patient is Asian Indian as determined by the patient/family.	<b>Code:</b> 2029-7
	<b>Note(s):</b> If the patient has multiple race origins, specify them using the other race selections in addition to this one.	<b>Code System Name:</b> HL7 Race
<b>Target Value:</b>	The value on arrival at this facility	<b>Short Name:</b> RaceAsianIndian
<b>Supporting Definition:</b>	<b>Asian Indian</b> Having origins in any of the original peoples of India.	<b>Missing Data:</b> Report
	<b>Source:</b> U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity	<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 2072 Race - Asian
		<b>Operator:</b> Equal
		<b>Value:</b> Yes

<b>Element:</b> 2081	Race - Chinese	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the patient is Chinese as determined by the patient/family.	<b>Code:</b> 2034-7
	<b>Note(s):</b> If the patient has multiple race origins, specify them using the other race selections in addition to this one.	<b>Code System Name:</b> HL7 Race
<b>Target Value:</b>	The value on arrival at this facility	<b>Short Name:</b> RaceChinese
<b>Supporting Definition:</b>	<b>Asian - Chinese</b> Having origins in any of the original peoples of China.	<b>Missing Data:</b> Report
	<b>Source:</b> U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity	<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 2072 Race - Asian
		<b>Operator:</b> Equal
		<b>Value:</b> Yes



**Section: Demographics** **Parent: Root**

<b>Element:</b> 2082	Race - Filipino	<b>Technical Specification</b>
<p><b>Coding Instruction:</b> Indicate if the patient is Filipino as determined by the patient/family.</p> <p>Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one.</p> <p><b>Target Value:</b> The value on arrival at this facility</p> <p><b>Supporting Definition:</b> <b>Asian - Filipino</b> Having origins in any of the original peoples of the Philippines. <b>Source:</b> U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity</p>		<p><b>Code:</b> 2036-2</p> <p><b>Code System Name:</b> HL7 Race</p> <p><b>Short Name:</b> RaceFilipino</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> BL</p> <p><b>Precision:</b></p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p>
		<b>Parent/Child Validation</b>
		<p><b>Element:</b> 2072 Race - Asian</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> Yes</p>

<b>Element:</b> 2083	Race - Japanese	<b>Technical Specification</b>
<p><b>Coding Instruction:</b> Indicate if the patient is Japanese as determined by the patient/family.</p> <p>Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one.</p> <p><b>Target Value:</b> The value on arrival at this facility</p> <p><b>Supporting Definition:</b> <b>Asian - Japanese</b> Having origins in any of the original peoples of Japan. <b>Source:</b> U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity</p>		<p><b>Code:</b> 2039-6</p> <p><b>Code System Name:</b> HL7 Race</p> <p><b>Short Name:</b> RaceJapanese</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> BL</p> <p><b>Precision:</b></p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p>
		<b>Parent/Child Validation</b>
		<p><b>Element:</b> 2072 Race - Asian</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> Yes</p>



Section: Demographics

Parent: Root

<b>Element:</b> 2084	Race - Korean	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate if the patient is Korean as determined by the patient/family.		<b>Code:</b> 2040-4
<b>Note(s):</b> If the patient has multiple race origins, specify them using the other race selections in addition to this one.		<b>Code System Name:</b> HL7 Race
<b>Target Value:</b> The value on arrival at this facility		<b>Short Name:</b> RaceKorean
<b>Supporting Definition: Asian - Korean</b> Having origins in any of the original peoples of Korea.		<b>Missing Data:</b> Report
<b>Source:</b> U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 2072 Race - Asian
		<b>Operator:</b> Equal
		<b>Value:</b> Yes

<b>Element:</b> 2085	Race - Vietnamese	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate if the patient is Vietnamese as determined by the patient/family.		<b>Code:</b> 2047-9
<b>Note(s):</b> If the patient has multiple race origins, specify them using the other race selections in addition to this one.		<b>Code System Name:</b> HL7 Race
<b>Target Value:</b> The value on arrival at this facility		<b>Short Name:</b> RaceVietnamese
<b>Supporting Definition: Asian - Vietnamese</b> Having origins in any of the original peoples of Viet Nam.		<b>Missing Data:</b> Report
<b>Source:</b> U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 2072 Race - Asian
		<b>Operator:</b> Equal
		<b>Value:</b> Yes



Section: Demographics

Parent: Root

<b>Element:</b> 2086	<b>Race - Other Asian</b>	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the patient is of Other Asian descent as determined by the patient/family.	<b>Code:</b> 100001130
	<b>Note(s):</b> If the patient has multiple race origins, specify them using the other race selections in addition to this one.	<b>Code System Name:</b> ACC NCDR
<b>Target Value:</b>	The value on arrival at this facility	<b>Short Name:</b> RaceAsianOther
<b>Supporting Definition:</b>	<b>Asian - Other Asian</b> Having origins in any of the original peoples elsewhere in Asia.	<b>Missing Data:</b> Report
	<b>Source:</b> U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity	<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 2072 Race - Asian
		<b>Operator:</b> Equal
		<b>Value:</b> Yes

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



**Section: Demographics** **Parent: Root**

<b>Element:</b> 2090	Race - Native Hawaiian	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the patient is Native Hawaiian as determined by the patient/family.	<b>Code:</b> 2079-2
	<b>Note(s):</b> If the patient has multiple race origins, specify them using the other race selections in addition to this one.	<b>Code System Name:</b> HL7 Race
<b>Target Value:</b>	The value on arrival at this facility	<b>Short Name:</b> RaceNativeHawaii
<b>Supporting Definition:</b>	<b>Native Hawaiian</b> Having origins in any of the original peoples of the islands of Hawaii.	<b>Missing Data:</b> Report
	<b>Source:</b> U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity	<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 2074 Race - Native Hawaiian/Pacific Islander
		<b>Operator:</b> Equal
		<b>Value:</b> Yes

<b>Element:</b> 2091	Race - Guamanian or Chamorro	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the patient is Guamanian or Chamorro as determined by the patient/family.	<b>Code:</b> 2086-7
	<b>Note(s):</b> If the patient has multiple race origins, specify them using the other race selections in addition to this one.	<b>Code System Name:</b> HL7 Race
<b>Target Value:</b>	The value on arrival at this facility	<b>Short Name:</b> RaceGuamChamorro
<b>Supporting Definition:</b>	<b>Native Hawaiian/Pacific Islander - Guamanian or Chamorro</b> Having origins in any of the original peoples of the Mariana Islands or the island of Guam.	<b>Missing Data:</b> Report
	<b>Source:</b> U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity	<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 2074 Race - Native Hawaiian/Pacific Islander
		<b>Operator:</b> Equal
		<b>Value:</b> Yes



Section: Demographics

Parent: Root

<b>Element:</b> 2092	Race - Samoan	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the patient is Samoan as determined by the patient/family.	<b>Code:</b> 2080-0
	<b>Note(s):</b> If the patient has multiple race origins, specify them using the other race selections in addition to this one.	<b>Code System Name:</b> HL7 Race
<b>Target Value:</b>	The value on arrival at this facility	<b>Short Name:</b> RaceSamoan
<b>Supporting Definition:</b>	<b>Native Hawaiian/Pacific Islander - Samoan</b> Having origins in any of the original peoples of the island of the Samoa.	<b>Missing Data:</b> Report
	<b>Source:</b> U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity	<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 2074 Race - Native Hawaiian/Pacific Islander
		<b>Operator:</b> Equal
		<b>Value:</b> Yes

<b>Element:</b> 2093	Race - Other Pacific Islander	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the patient is Other Pacific Islander as determined by the patient/family.	<b>Code:</b> 2500-7
	<b>Note(s):</b> If the patient has multiple race origins, specify them using the other race selections in addition to this one.	<b>Code System Name:</b> HL7 Race
<b>Target Value:</b>	The value on arrival at this facility	<b>Short Name:</b> RacePacificIslandOther
<b>Supporting Definition:</b>	<b>Native Hawaiian/Pacific Islander - Other Pacific Island</b> Having origins in any of the original peoples of any other island in the Pacific.	<b>Missing Data:</b> Report
	<b>Source:</b> U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity	<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 2074 Race - Native Hawaiian/Pacific Islander
		<b>Operator:</b> Equal
		<b>Value:</b> Yes



Section: Demographics

Parent: Root

<b>Element:</b> 2076	Hispanic or Latino Ethnicity	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the patient is of Hispanic or Latino ethnicity as determined by the patient/family.	<b>Code:</b> 2135-2
	<b>Note(s):</b> If the patient has multiple hispanic or latin ethnicity, specify them using the other ethnicity selections in addition to this one.	<b>Code System Name:</b> HL7 Ethnicity
<b>Target Value:</b>	The value on arrival at this facility	<b>Short Name:</b> HispOrig
<b>Supporting Definition:</b>	<b>Hispanic or Latino Ethnicity</b> A person of Mexican, Puerto Rican, Cuban, South or Central American, or other Spanish culture or origin, regardless of race. The term, "Spanish origin," can be used in addition to "Hispanic or Latino." <b>Source:</b> U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity	<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User

<b>Element:</b> 2100	Hispanic Ethnicity Type - Mexican, Mexican-American, Chicano	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the patient is Mexican, Mexican - American, or Chicano as determined by the patient/family.	<b>Code:</b> 2148-5
	<b>Note(s):</b> If the patient has multiple hispanic or latin ethnicity, specify them using the other ethnicity selections in addition to this one.	<b>Code System Name:</b> HL7 Ethnicity
<b>Target Value:</b>	The value on arrival at this facility	<b>Short Name:</b> HispEthnicityMexican
<b>Supporting Definition:</b>	<b>Hispanic Ethnicity - Mexican/Mexican American/Chicano</b> Having origins in any of the original peoples of Mexico. <b>Source:</b> U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity	<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
<b>Parent/Child Validation</b>		
<b>Element:</b> 2076	Hispanic or Latino Ethnicity	
<b>Operator:</b>	Equal	
<b>Value:</b>	Yes	



**Section: Demographics** **Parent: Root**

<b>Element:</b> 2101	Hispanic Ethnicity Type - Puerto Rican	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the patient is Puerto Rican as determined by the patient/family.	<b>Code:</b> 2180-8
	<b>Note(s):</b> If the patient has multiple hispanic or latin ethnicity, specify them using the other ethnicity selections in addition to this one.	<b>Code System Name:</b> HL7 Ethnicity
<b>Target Value:</b>	The value on arrival at this facility	<b>Short Name:</b> HispEthnicityPuertoRico
<b>Supporting Definition:</b>	<b>Hispanic Ethnicity - Puerto Rican</b> Having origins in any of the original peoples of Puerto Rico.	<b>Missing Data:</b> Report
	<b>Source:</b> U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity	<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 2076 Hispanic or Latino Ethnicity
		<b>Operator:</b> Equal
		<b>Value:</b> Yes

<b>Element:</b> 2102	Hispanic Ethnicity Type - Cuban	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the patient is Cuban as determined by the patient/family.	<b>Code:</b> 2182-4
	<b>Note(s):</b> If the patient has multiple hispanic or latin ethnicity, specify them using the other ethnicity selections in addition to this one.	<b>Code System Name:</b> HL7 Ethnicity
<b>Target Value:</b>	The value on arrival at this facility	<b>Short Name:</b> HispEthnicityCuban
<b>Supporting Definition:</b>	<b>Hispanic Ethnicity - Cuban</b> Having origins in any of the original peoples of Cuba.	<b>Missing Data:</b> Report
	<b>Source:</b> U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity	<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 2076 Hispanic or Latino Ethnicity
		<b>Operator:</b> Equal
		<b>Value:</b> Yes



**Section: Demographics** **Parent: Root**

<b>Element:</b> 2103	Hispanic Ethnicity Type - Other Hispanic, Latino or Spanish Origin	<b>Technical Specification</b>
<b>Coding Instruction:</b>	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.	<b>Code:</b> 100001131
<b>Target Value:</b>	The value on arrival at this facility	<b>Code System Name:</b> ACC NCDR
<b>Supporting Definition:</b>	<b>Hispanic Ethnicity - Other Hispanic/Latino/Spanish Origin</b> Having origins in any of the originals peoples in other Hispanic, Latino or Spanish territories. <b>Source:</b> U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity	<b>Short Name:</b> HispEthnicityOtherOrigin
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 2076 Hispanic or Latino Ethnicity
		<b>Operator:</b> Equal
		<b>Value:</b> Yes

<b>Element:</b> 14780	Original Patient ID	<b>Technical Specification</b>
<b>Coding Instruction:</b>	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.	<b>Code:</b> 112000002061
<b>Target Value:</b>	N/A	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> OrigPtID
		<b>Missing Data:</b> Illegal
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> NUM
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b>
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> Automatic

<b>Element:</b> 14781	Original NCDR Vendor	<b>Technical Specification</b>
<b>Coding Instruction:</b>	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.	<b>Code:</b> 112000002062
<b>Target Value:</b>	N/A	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> OrigNCDRVen
		<b>Missing Data:</b> Illegal
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> ST
		<b>Precision:</b> 15
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b>
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> Automatic



Section: Episode Information

Parent: Episode of Care

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

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

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



Section: Episode Information

Parent: Episode of Care

**Element:** 3010 Health Insurance Payment Source

**Coding Instruction:** Indicate the patient's health insurance payment type.

Note(s):  
If the patient has multiple insurance payors, select all payors.

If there is uncertainty regarding how to identify a specific health insurance plan, please discuss with your billing department to understand how it should be identified in the registry.

**Target Value:** The value on arrival at this facility

Technical Specification	
<b>Code:</b>	100001072
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	HIPS
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Multiple
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b>	3005 Health Insurance
<b>Operator:</b>	Equal
<b>Value:</b>	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			11200002025	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**

<b>Element:</b> 12846	Medicare Beneficiary Identifier	<b>Technical Specification</b>
<b>Coding Instruction:</b>	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.	<b>Code:</b> 2.16.840.1.113883.4.927
<b>Target Value:</b>	The value on arrival at this facility	<b>Code System:</b> Center for medicare and <b>Name:</b> medicaid services, MBI
<b>Supporting Definition:</b>	<b>Medicare Beneficiary Identifier</b>  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.  <b>Source:</b> <a href="https://www.cms.gov/Medicare/New-Medicare-Card/index.html">https://www.cms.gov/Medicare/New-Medicare-Card/index.html</a>	<b>Short Name:</b> MBI <b>Missing Data:</b> Report <b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> ST <b>Precision:</b> 11 <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User

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

<b>Parent/Child Validation</b>	
<b>Element:</b> 13804	Residence Not Documented
<b>Operator:</b>	Equal
<b>Value:</b>	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

<b>Element:</b> 13804	Residence Not Documented	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the primary residence of the patient prior to arrival was not documented.	<b>Code:</b> 11200001506
<b>Target Value:</b>	N/A	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> ResidenceND
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User

<b>Element:</b> 3020	Patient Enrolled in Research Study	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the patient is enrolled in an ongoing ACC - NCDR research study related to this registry.	<b>Code:</b> 100001095
<b>Target Value:</b>	Any occurrence between arrival at this facility and discharge	<b>Code System Name:</b> ACC NCDR
<b>Supporting Definition:</b>	<b>Patient Enrolled in Research Study</b> 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. <b>Source:</b> Clinicaltrials.gov Glossary of Common Site Terms retrieved from <a href="http://clinicaltrials.gov/ct2/about-studies/glossary#interventional-study">http://clinicaltrials.gov/ct2/about-studies/glossary#interventional-study</a>	<b>Short Name:</b> EnrolledStudy
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User

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



Section: Episode Information

Parent: Episode of Care

<b>Element:</b> 13171	TVT Pathway	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate all TVT Registry procedures performed during this episode of care.	<b>Code:</b> 112000001167
<b>Target Value:</b>	The value between arrival at this facility and discharge	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> TVTPathway
		<b>Missing Data:</b> Illegal
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Multiple
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> 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
<p><b>Coding Instruction:</b> Indicate the last name of the admitting provider.</p> <p><b>Note(s):</b> If the name exceeds 50 characters, enter the first 50 characters only.</p> <p>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.</p> <p><b>Target Value:</b> The value on arrival at this facility</p>		<p><b>Code:</b> 1000142451</p> <p><b>Code System Name:</b> ACC NCDR</p> <p><b>Short Name:</b> AdmLName</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> LN</p> <p><b>Precision:</b> 50</p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p>

Element: 3051	Admitting Provider First Name	Technical Specification
<p><b>Coding Instruction:</b> Indicate the first name of the admitting provider.</p> <p><b>Note(s):</b> If the name exceeds 50 characters, enter the first 50 characters only.</p> <p>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.</p> <p><b>Target Value:</b> The value on arrival at this facility</p>		<p><b>Code:</b> 1000142451</p> <p><b>Code System Name:</b> ACC NCDR</p> <p><b>Short Name:</b> AdmFName</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> FN</p> <p><b>Precision:</b> 50</p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p>

Element: 3052	Admitting Provider Middle Name	Technical Specification
<p><b>Coding Instruction:</b> Indicate the middle name of the admitting provider.</p> <p><b>Note(s):</b> It is acceptable to specify the middle initial.</p> <p>If there is no middle name given, leave field blank.</p> <p>If there are multiple middle names, enter all of the middle names sequentially.</p> <p>If the name exceeds 50 characters, enter the first 50 letters only.</p> <p>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.</p> <p><b>Target Value:</b> The value on arrival at this facility</p>		<p><b>Code:</b> 1000142451</p> <p><b>Code System Name:</b> ACC NCDR</p> <p><b>Short Name:</b> AdmMName</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> MN</p> <p><b>Precision:</b> 50</p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p>



Section: Admitting Providers

Parent: Episode Information

Element: 3053	Admitting Provider NPI	Technical Specification
<p><b>Coding Instruction:</b> 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.</p> <p><b>Note(s):</b> 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.</p> <p><b>Target Value:</b> The value on arrival at this facility</p>		<p><b>Code:</b> 1000142451</p> <p><b>Code System Name:</b> ACC NCDR</p> <p><b>Short Name:</b> AdmNPI</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> NUM</p> <p><b>Precision:</b> 10</p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p>



Section: Attending Providers

Parent: Episode Information

Element: 3055	Attending Provider Last Name	Technical Specification
<p><b>Coding Instruction:</b> Indicate the last name of the attending provider.</p> <p>Note(s): If the name exceeds 50 characters, enter the first 50 characters only.</p> <p>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.</p> <p><b>Target Value:</b> All values between arrival at this facility and discharge</p>		<p><b>Code:</b> 1000142452</p> <p><b>Code System Name:</b> ACC NCDR</p> <p><b>Short Name:</b> AttLName</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> LN</p> <p><b>Precision:</b> 50</p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p>

Element: 3056	Attending Provider First Name	Technical Specification
<p><b>Coding Instruction:</b> Indicate the first name of the attending provider.</p> <p>Note(s): If the name exceeds 50 characters, enter the first 50 characters only.</p> <p>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.</p> <p><b>Target Value:</b> All values between arrival at this facility and discharge</p> <p><b>Vendor Instruction:</b> An Attending Provider - combination First Name (3056), Last Name (3055) and NPI (3058) - may only be entered/selected once</p>		<p><b>Code:</b> 1000142452</p> <p><b>Code System Name:</b> ACC NCDR</p> <p><b>Short Name:</b> AttFName</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> FN</p> <p><b>Precision:</b> 50</p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p>

Element: 3057	Attending Provider Middle Name	Technical Specification
<p><b>Coding Instruction:</b> Indicate the middle name of the attending provider.</p> <p>Note(s): It is acceptable to specify the middle initial.</p> <p>If there is no middle name given, leave field blank.</p> <p>If there are multiple middle names, enter all of the middle names sequentially.</p> <p>If the name exceeds 50 characters, enter the first 50 letters only. 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.</p> <p><b>Target Value:</b> All values between arrival at this facility and discharge</p>		<p><b>Code:</b> 1000142452</p> <p><b>Code System Name:</b> ACC NCDR</p> <p><b>Short Name:</b> AttMName</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> MN</p> <p><b>Precision:</b> 50</p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p>



Section: Attending Providers

Parent: Episode Information

Element: 3058	Attending Provider NPI	Technical Specification
<p><b>Coding Instruction:</b> 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.</p> <p><b>Note(s):</b> 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.</p> <p><b>Target Value:</b> All values between arrival at this facility and discharge</p>		<p><b>Code:</b> 1000142452</p> <p><b>Code System Name:</b> ACC NCDR</p> <p><b>Short Name:</b> AttNPI</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> NUM</p> <p><b>Precision:</b> 10</p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p>



Section: Research Study

Parent: Episode of Care

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

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



Section: History and Risk Factors

Parent: Root

Element: 6000	Height	Technical Specification
<b>Coding Instruction:</b>	Indicate the patient's height in centimeters.	<b>Code:</b> 8302-2
<b>Target Value:</b>	The last value prior to the start of the first procedure	<b>Code System Name:</b> LOINC
		<b>Short Name:</b> Height
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> PQ
		<b>Precision:</b> 5,2
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> cm
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 100.00 - 225.00 cm
		<b>Valid Range:</b> 20.00 - 260.00 cm
		<b>Data Source:</b> User

Element: 6005	Weight	Technical Specification
<b>Coding Instruction:</b>	Indicate the patient's weight in kilograms.	<b>Code:</b> 3141-9
<b>Target Value:</b>	The last value prior to the start of the first procedure	<b>Code System Name:</b> LOINC
		<b>Short Name:</b> Weight
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> PQ
		<b>Precision:</b> 5,2
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> kg
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 40.00 - 200.00 kg
		<b>Valid Range:</b> 10.00 - 700.00 kg
		<b>Data Source:</b> User

Element: 13697	Number of Prior Open Heart Cardiac Surgeries	Technical Specification
<b>Coding Instruction:</b>	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.	<b>Code:</b> 11200001411
	Note: If the patient had more than 4 open heart procedures and the total number is not known, code 4 prior open heart surgeries.	<b>Code System Name:</b> ACC NCDR
<b>Target Value:</b>	Any occurrence between birth and start of the current procedure	<b>Short Name:</b> NumPrevCardSurg
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> NUM
		<b>Precision:</b> 1,0
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User



Section: History and Risk Factors

Parent: Root

**Element:** 13707      Heart Failure Hospitalization Within Past Year

**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.

**Target Value:** Any occurrence between 1 year prior to arrival at this facility and arrival at this facility

Technical Specification	
<b>Code:</b>	11200001855
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	PriorHFAdmit1Year
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User

  

Parent/Child Validation	
<b>Element:</b>	14253      Heart Failure Hospitalization within Past Year Not Documented
<b>Operator:</b>	Equal
<b>Value:</b>	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

**Coding Instruction:** Indicate if an inpatient admission with a diagnosis of heart failure within the past year was not documented.

**Target Value:** N/A

Technical Specification	
<b>Code:</b>	11200001855
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	PriorHFAdmit1YearND
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	BL
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User



Section: History and Risk Factors

Parent: Root

**Element:** 13172      Anticipated Life Expectancy of Less than 1 Year

**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

**Technical Specification**

**Code:** 11200001172  
**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

**Coding Instruction:** Indicate if there is no physician documentation of the patient's anticipated life expectancy being less than one year.

**Target Value:** N/A

**Technical Specification**

**Code:** 11200001172  
**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

<b>Element:</b> 13881	Oxygen at Home	<b>Technical Specification</b>
	<b>Coding Instruction:</b> Indicate whether patient uses supplemental oxygen at home.	<b>Code:</b> 268512000
	<b>Target Value:</b> The value on arrival at this facility	<b>Code System Name:</b> SNOMED CT
		<b>Short Name:</b> HmO2
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User

<b>Element:</b> 13882	Immunocompromise Present	<b>Technical Specification</b>
	<b>Coding Instruction:</b> 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.	<b>Code:</b> 370388006
	<b>Target Value:</b> The last value on start of the first procedure	<b>Code System Name:</b> SNOMED CT
		<b>Short Name:</b> ImmSupp
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User

<b>Element:</b> 13880	Currently on Dialysis	<b>Technical Specification</b>
	<b>Coding Instruction:</b> Indicate if the patient is currently undergoing either hemodialysis or peritoneal dialysis on an ongoing basis as a result of renal failure.	<b>Code:</b> 108241001
	<b>Note(s):</b> 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'.	<b>Code System Name:</b> SNOMED CT
	<b>Target Value:</b> The last value on start of the first procedure	<b>Short Name:</b> CurrentlyonDialysis
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User



Section: History and Risk Factors

Parent: Root

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

**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

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

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

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

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

**Target Value:** The value on arrival at this facility

**Technical Specification**

**Code:** 33633005  
**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

**Coding Instruction:** Specify the total daily dose of the loop diuretic the patient was taking routinely at home prior to this hospitalization.

**Target Value:** The value on arrival at this facility

**Technical Specification**

**Code:** 112000001975  
**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
	<p><b>Coding Instruction:</b> The list of medical conditions from which the patient's history is to be determined.</p> <p><b>Target Value:</b> N/A</p>	<p><b>Code:</b> 312850006</p> <p><b>Code System Name:</b> SNOMED CT</p> <p><b>Short Name:</b> ConditionHx</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> CD</p> <p><b>Precision:</b></p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p>

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	<p>Cerebrovascular disease includes any of the following:</p> <p>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.</p> <p>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.</p> <p>C. Noninvasive or invasive arterial imaging test demonstrating &gt;=50% stenosis of any of the major extracranial or intracranial vessels to the brain.</p> <p>D. Vertebral artery and internal carotid and intercranial consistent with atherosclerotic disease with document presence as CVD. External carotid disease is excluded.</p> <p>E. Previous cervical or cerebral artery revascularization surgery or percutaneous intervention.</p> <p>F. Brain/cerebral aneurysm.</p> <p>G. Occlusion of vertebral artery, internal carotid artery, and intercranial due to dissection.</p> <p>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.</p>	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			
	<p>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.</p>	<p>Clinical Management and Outcomes of Patients With Chronic Heart Failure Circulation. 2005;112:1888-1916</p>	44808001	SNOMED CT
Conduction Defect	<p>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.</p>		44808001	SNOMED CT
COVID-19 Positive	<p>The patient had a diagnosis of COVID-19, confirmed with a laboratory performed polymerase chain reaction (PCR) test.</p>		112000001982	ACC NCDR
	<p>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.</p>			
	<p>Code no if documentation ONLY included antibody testing (IgG).</p>			
Dementia - Moderate to Severe	<p>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.</p>		112000001493	ACC NCDR
Diabetes Mellitus	<p>The American Diabetes Association criteria include documentation of the following:</p>	<p>American Diabetes Association Care. 2017;40 Suppl 1:S13.</p>	73211009	SNOMED CT
	<p>1. FPG <math>\geq</math>126 mg/dL (7.0 mmol/L). Fasting is defined as no caloric intake for at least 8 h.</p>			
	<p>OR</p>			
	<p>2. 2-h PG <math>\geq</math>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.</p>			
	<p>OR</p>			
	<p>3. A1C <math>\geq</math>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.</p>			
	<p>OR</p>			
	<p>4. In a patient with classic symptoms of hyperglycemia or hyperglycemic crisis, a random plasma glucose <math>\geq</math>200 mg/dL (11.1 mmol/L).</p>			
Endocarditis	<p>Endocarditis must meet the current CDC definition: Endocarditis must meet at least 1 of the following criteria:</p>	<p>Society of Thoracic Surgeons (STS)</p>	56819008	SNOMED CT
	<p>1. Patient has organisms cultured from valve or vegetation.</p>			
	<p>2. Patient has 2 or more of the following signs or symptoms: fever (<math>&gt;38^{\circ}\text{C}</math>), new or changing murmur*, embolic phenomena*, skin manifestations* (i.e., petechiae, splinter hemorrhages, painful subcutaneous nodules), congestive heart failure*, or cardiac conduction abnormality*</p>			
	<p>* With no other recognized cause and at least 1 of the following:</p>			
	<p>1) Organisms cultured from 2 or more blood cultures</p>			
	<p>2) Organisms seen on Gram's stain of valve when culture is negative or not done</p>			
	<p>3) Valvular vegetation seen during an invasive procedure or autopsy</p>			
	<p>4) Positive laboratory test on blood or urine (e.g., antigen tests for H influenzae, S pneumoniae, N meningitidis, or Group B Streptococcus)</p>			
	<p>5) Evidence of new vegetation seen on echocardiogram and if diagnosis is made antemortem, physician institutes appropriate antimicrobial therapy.</p>			
	<p>Notes:</p>			
	<p>1. Choose "Yes" for patients with pre-operative endocarditis who begin antibiotics post-op.</p>			



**Section: Condition History** **Parent: History and Risk Factors**

	<p>2. Code "Yes" for patients who are diagnosed intraoperatively.</p> <p>3. Marantic Endocarditis (Nonbacterial Thrombotic Endocarditis) (Lupus) should not be coded as infectious endocarditis.</p>			
Heart Failure	<p>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.</p>	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	<p>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:</p> <ol style="list-style-type: none"> <li>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 )</li> <li>2. Complications from prior surgery</li> <li>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)</li> <li>4. History of multiple recurrent pleural effusions causing internal adhesions.</li> <li>5. Chronic, ongoing open skin defects or extremely severe soft tissue atrophy.</li> <li>6. Complete absence of reconstructive options based on plastic surgeon consult.</li> </ol>		112000001489	ACC NCDR
Hypertension	<p>Hypertension is defined by any one of the following:</p> <ol style="list-style-type: none"> <li>1. Documentation of hypertension as a medical problem</li> <li>OR</li> <li>2. Documentation of blood pressure greater than or equal to 130 mm Hg systolic or 80 mm Hg diastolic on at least 2 encounters</li> </ol>	<p>Derived from:</p> <p>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.</p>	38341003	SNOMED CT
Liver Disease	<p>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.</p>	Society for Thoracic Surgeons (STS)	235856003	SNOMED CT
Myocardial Infarction	<p>Prior myocardial infarction is defined by any of the following:</p> <ol style="list-style-type: none"> <li>1. Documentation of myocardial infarction (MI) as a medical problem.</li> <li>OR</li> <li>2. Any one of the following criteria meets the diagnosis for prior (sometimes called silent/unrecognized) MI: <ol style="list-style-type: none"> <li>a. Abnormal Q waves with or without symptoms in the absence of nonischemic causes.</li> <li>b. Imaging evidence of loss of viable myocardium in a pattern consistent with ischemic etiology.</li> <li>c. Patho-anatomical findings of a prior MI.</li> </ol> </li> </ol>	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	<p>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:</p> <ul style="list-style-type: none"> <li>* Claudication on exertion</li> <li>* Amputation for arterial vascular insufficiency</li> </ul>	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**

<b>Code:</b>	312850006
<b>Code System Name:</b>	SNOMED CT
<b>Short Name:</b>	ConditionHxOccurrence
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	BL
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User

**Parent/Child Validation**

<b>Element:</b>	12903 Condition History Name
<b>Operator:</b>	
<b>Value:</b>	Any Value



Section: Condition History

Parent: History and Risk Factors

Element: 14251	Condition History Date	Technical Specification
<p><b>Coding Instruction:</b> Indicate the most recent occurrence date for the condition.</p> <p>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).</p> <p><b>Target Value:</b> The last value between birth and the first procedure in this admission</p> <p><b>Vendor Instruction:</b> Condition History Date (14251) must be Less than or Equal to Procedure Start Date and Time (7000)</p>		<p><b>Code:</b> 312850006</p> <p><b>Code System Name:</b> SNOMED CT</p> <p><b>Short Name:</b> CondHistDate</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> DT</p> <p><b>Precision:</b></p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p>
		<p><b>Parent/Child Validation</b></p> <p><b>Element:</b> 12903 Condition History Name</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> Cerebrovascular Accident</p> <p><b>Element:</b> 12903 Condition History Name</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> COVID-19 Positive</p> <p>----- AND -----</p> <p><b>Element:</b> 14264 Condition History Occurrence</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> Yes</p>



Section: Atrial Fibrillation

Parent: Condition History Details

<b>Element:</b> 13179	Atrial Fibrillation Classification	<b>Technical Specification</b>
	<b>Coding Instruction:</b> Indicate the classification of atrial fibrillation.	<b>Code:</b> 10000935
	<b>Target Value:</b> The last value within 30 days prior to the first procedure in this admission	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> AFibClassification
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 12903 Condition History Name
		<b>Operator:</b> Equal
		<b>Value:</b> Atrial Fibrillation
		----- AND -----
		<b>Element:</b> 14264 Condition History Occurrence
		<b>Operator:</b> Equal
		<b>Value:</b> 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

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



Section: Atrial Flutter

Parent: Condition History Details

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



**Section: Carotid Artery Stenosis** **Parent: Condition History Details**

<b>Element:</b> 14265	Current Carotid Artery Stenosis	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the patient has carotid artery stenosis.	<b>Code:</b> 64586002
<b>Target Value:</b>	The value on arrival at this facility	<b>Code System Name:</b> SNOMED CT
<b>Supporting Definition:</b>	<b>Carotid Artery Stenosis</b> 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. <b>Source:</b> NCI metathesaurus NCIm Version: 201706 Version 2.8 CUI C0007282	<b>Short Name:</b> CurrendCAS <b>Missing Data:</b> Report <b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> BL <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 12903 Condition History Name <b>Operator:</b> Equal <b>Value:</b> Carotid Artery Stenosis ----- AND ----- <b>Element:</b> 14264 Condition History Occurrence <b>Operator:</b> Equal <b>Value:</b> Yes

<b>Element:</b> 14230	Carotid Artery Stenosis Location	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate which carotid artery was determined from any diagnostic test to be greater or equal to 50% stenotic.	<b>Code:</b> 112000002012
<b>Target Value:</b>	The last value prior to the start of the first procedure	<b>Code System Name:</b> ACC NCDR
<b>Supporting Definition:</b>	<b>Carotid Artery Stenosis</b> 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. <b>Source:</b> NCI metathesaurus NCIm Version: 201706 Version 2.8 CUI C0007282	<b>Short Name:</b> CVDCarsten <b>Missing Data:</b> Report <b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> CD <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14265 Current Carotid Artery Stenosis <b>Operator:</b> Equal <b>Value:</b> Yes ----- AND ----- <b>Element:</b> 14329 Carotid Artery Stenosis Location Not Documented <b>Operator:</b> Equal <b>Value:</b> 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

<b>Element:</b> 14329	Carotid Artery Stenosis Location Not Documented	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the severity of carotid artery stenosis was not documented.	<b>Code:</b> 112000002012
<b>Target Value:</b>	N/A	<b>Code System Name:</b> ACC NCDR
<b>Supporting Definition:</b>	<b>Carotid Artery Stenosis</b>	<b>Short Name:</b> CVDCarSteLocND
	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.	<b>Missing Data:</b> Report
	<b>Source:</b> NCI Metathesaurus	<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
	NCIm Version: 201706 Version 2.8	<b>Is Identifier:</b> No
	CUI C0007282	<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
<b>Parent/Child Validation</b>		
<b>Element:</b> 14265	Current Carotid Artery Stenosis	
<b>Operator:</b>	Equal	
<b>Value:</b>	Yes	



Section: Cardiomyopathy

Parent: Condition History Details

<b>Element:</b> 4570	Cardiomyopathy Type	<b>Technical Specification</b>
	<p><b>Coding Instruction:</b> Indicate the type of cardiomyopathy experienced by the patient.</p> <p>Note(s): If the patient has had multiple cardiomyopathies, select all applicable types.</p> <p><b>Target Value:</b> Any occurrence between birth and the procedure</p>	<p><b>Code:</b> 10000953</p> <p><b>Code System Name:</b> ACC NCDR</p> <p><b>Short Name:</b> PriorCMType</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (BDS, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> CD</p> <p><b>Precision:</b></p> <p><b>Selection Type:</b> Multiple</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p>
		<b>Parent/Child Validation</b>
		<p><b>Element:</b> 12903 Condition History Name</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> Cardiomyopathy</p> <p>----- AND -----</p> <p><b>Element:</b> 14264 Condition History Occurrence</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> Yes</p> <p>----- AND -----</p> <p><b>Element:</b> 13171 TVT Pathway</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> TMVR</p> <p><b>Element:</b> 13171 TVT Pathway</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> TMVr</p> <p><b>Element:</b> 13171 TVT Pathway</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> Tricuspid Valve Procedure</p>

**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**

**Coding Instruction:** Indicate the severity of chronic lung disease.

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

**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.

**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

**Technical Specification**

**Code:** 413839001  
**Code System Name:** SNOMED CT  
**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

**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

Coding Instruction: Indicate true if the severity of chronic lung disease is not documented.

Target Value: N/A

Technical Specification

Code: 112000001596  
Code System Name: ACC NCDR  
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

**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.

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

**Technical Specification**

**Code:** 385804009

**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

<b>Element:</b> 14232	Endocarditis Type	<b>Technical Specification</b>
	<b>Coding Instruction:</b> Indicate the type of endocarditis.	<b>Code:</b> 56819008
	<b>Target Value:</b> The last value between birth and the first procedure in this admission	<b>Code System Name:</b> SNOMED CT
		<b>Short Name:</b> InfEndTy
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 12903 Condition History Name
		<b>Operator:</b> Equal
		<b>Value:</b> Endocarditis
		----- AND -----
		<b>Element:</b> 14264 Condition History Occurrence
		<b>Operator:</b> Equal
		<b>Value:</b> 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).		11200001752	ACC NCDR
Active Endocarditis	The patient is currently being treated for endocarditis. This includes patients who are diagnosed and treatment begins post-op.		11200001753	ACC NCDR



Section: Myocardial Infarction

Parent: Condition History Details

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

**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

<b>Element:</b> 12905	Procedure History Name
<b>Coding Instruction:</b>	The list of medical procedures from which the patient's history is to be determined.
<b>Target Value:</b>	N/A
<b>Vendor Instruction:</b>	When a Procedure History Name (12905) is selected then Procedure History Occurrence (14268) must not be Null

Technical Specification	
<b>Code:</b>	416940007
<b>Code System Name:</b>	SNOMED CT
<b>Short Name:</b>	ProcedHxName
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	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.		11200001755	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.		11200001768	ACC NCDR
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.		11200001940	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.		11200001773	ACC NCDR
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.		11200001769	ACC NCDR
Tricuspid Valve Procedure	Any previous surgical or interventional replacement and/or repair of the tricuspid valve.		11200001941	ACC NCDR
Tricuspid Valve Repair Surgery			384643000	SNOMED CT
Tricuspid Valve Replacement Surgery			25236004	SNOMED CT
Tricuspid Valve Replacement - Transcatheter			11200001977	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.		11200001779	ACC NCDR



Section: Procedure History

Parent: History and Risk Factors

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



Section: Procedure History

Parent: History and Risk Factors

Element: 14252 Procedure History Date		Technical Specification
<b>Coding Instruction:</b>	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).	<b>Code:</b> 416940007 <b>Code System Name:</b> SNOMED CT <b>Short Name:</b> ProcHistDate <b>Missing Data:</b> Report <b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> DT <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
<b>Target Value:</b>	The last value between birth and the first procedure in this admission	
<b>Vendor Instruction:</b>	Procedure History Date (14252) must be Less than or Equal to Procedure Start Date and Time (7000)	
		Parent/Child Validation
		<b>Element:</b> 12905 Procedure History Name <b>Operator:</b> Equal <b>Value:</b> Aortic Valve Procedure
		<b>Element:</b> 12905 Procedure History Name <b>Operator:</b> Equal <b>Value:</b> Coronary Artery Bypass Graft
		<b>Element:</b> 12905 Procedure History Name <b>Operator:</b> Equal <b>Value:</b> Permanent Pacemaker
		<b>Element:</b> 12905 Procedure History Name <b>Operator:</b> Equal <b>Value:</b> PCI
		<b>Element:</b> 12905 Procedure History Name <b>Operator:</b> Equal <b>Value:</b> Mitral Valve Procedure
		<b>Element:</b> 12905 Procedure History Name <b>Operator:</b> Equal <b>Value:</b> Tricuspid Valve Procedure
		----- AND -----
		<b>Element:</b> 14268 Procedure History Occurrence <b>Operator:</b> Equal <b>Value:</b> Yes



Section: Aortic Valve Replacement

Parent: Procedure History Details

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

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



Section: Aortic Valve Replacement

Parent: Procedure History Details

<b>Element:</b> 14236	Aortic Valve Replacement Type	<b>Technical Specification</b>
	<b>Coding Instruction:</b> Indicate the type of surgical aortic valve replacement.	<b>Code:</b> 725351001
	<b>Target Value:</b> The last value between birth and the first procedure in this admission	<b>Code System Name:</b> SNOMED CT
		<b>Short Name:</b> PrevProcAVType
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14237 Aortic Valve Replacement Type Not Documented
		<b>Operator:</b> Equal <b>Value:</b> No (or Not Answered) ----- AND -----
		<b>Element:</b> 12905 Procedure History Name
		<b>Operator:</b> Equal <b>Value:</b> Aortic Valve Replacement Surgery ----- AND -----
		<b>Element:</b> 14268 Procedure History Occurrence
		<b>Operator:</b> Equal <b>Value:</b> Yes ----- AND -----
		<b>Element:</b> 13171 TVT Pathway
		<b>Operator:</b> Equal <b>Value:</b> TAVR

**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 Aortic Valve Replacement Type Not Documented

**Coding Instruction:** Indicate if the surgical aortic valve replacement type was not documented.

**Target Value:** N/A

**Technical Specification**

**Code:** 725351001

**Code System Name:** SNOMED CT

**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:** 12905 Procedure History Name

**Operator:** Equal

**Value:** Aortic Valve Replacement Surgery

----- AND -----

**Element:** 14268 Procedure History Occurrence

**Operator:** Equal

**Value:** Yes

----- AND -----

**Element:** 13171 TVT Pathway

**Operator:** Equal

**Value:** TAVR



Section: Transcatheter AV Replacement

Parent: Procedure History Details

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

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



Section: ICD

Parent: Procedure History Details

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



Section: Mitral Valve Annuloplasty

Parent: Procedure History Details

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

**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

**Coding Instruction:** Indicate if the type of mitral annuloplasty ring implanted surgically was not documented.

**Target Value:** N/A

**Technical Specification**

**Code:** 232744004  
**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:** 12905 Procedure History Name  
**Operator:** Equal  
**Value:** Mitral Valve Annuloplasty Ring Surgery  
----- AND -----  
**Element:** 14268 Procedure History Occurrence  
**Operator:** Equal  
**Value:** Yes  
----- AND -----  
**Element:** 13171 TVT Pathway  
**Operator:** Equal  
**Value:** TMVr  
**Element:** 13171 TVT Pathway  
**Operator:** Equal  
**Value:** TMVR

**Element:** 14455 Mitral Ring Implant ID

**Coding Instruction:** Indicate the implant ID of the mitral ring or mitral band.

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

**Technical Specification**

**Code:** 17107009  
**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:** 12905 Procedure History Name  
**Operator:** Equal  
**Value:** Mitral Valve Annuloplasty Ring Surgery  
----- AND -----  
**Element:** 14268 Procedure History Occurrence  
**Operator:** Equal  
**Value:** Yes  
----- AND -----  
**Element:** 13171 TVT Pathway  
**Operator:** Equal  
**Value:** TMVR



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

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

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

**Coding Instruction:** Indicate if the surgical mitral valve replacement type was not documented.

**Target Value:** N/A

**Technical Specification**

**Code:** 53059001

**Code System Name:** SNOMED CT

**Short Name:** PrevMVRReplaceTypeND

**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:** 12905 Procedure History Name

**Operator:** Equal

**Value:** Mitral Valve Replacement Surgery

----- AND -----

**Element:** 14268 Procedure History Occurrence

**Operator:** Equal

**Value:** Yes

----- AND -----

**Element:** 13171 TVT Pathway

**Operator:** Equal

**Value:** TAVR

**Element:** 13171 TVT Pathway

**Operator:** Equal

**Value:** TMVR

**Element:** 14334 Surgical Mitral Valve Replacement Implant ID

**Coding Instruction:** Indicate the implant ID of the prosthetic mitral valve.

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

**Technical Specification**

**Code:** 17107009

**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:** 12905 Procedure History Name

**Operator:** Equal

**Value:** Mitral Valve Replacement Surgery

----- AND -----

**Element:** 14268 Procedure History Occurrence

**Operator:** Equal

**Value:** Yes

----- AND -----

**Element:** 13171 TVT Pathway

**Operator:** Equal

**Value:** TMVR



Section: Mitral Valve Replacement

Parent: Procedure History Details

Element: 14518 Surgical Mitral Valve Replacement Implant Diameter

**Coding Instruction:** Indicate the mitral valve implant size.

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

**Technical Specification**

**Code:** 17107009

**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

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

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

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

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



Section: Permanent Pacemaker

Parent: Procedure History Details

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



Section: Tricuspid Valve Repair Surgery

Parent: Procedure History Details

**Element:** 14299      Tricuspid Valve Annuloplasty Ring

**Coding Instruction:** Indicate if the patient had a prior tricuspid annuloplasty ring implanted surgically.

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

**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

**Source:**

**Technical Specification**

**Code:** 46030003  
**Code System Name:** SNOMED CT  
**Short Name:** PreTVARing  
**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:** 12905      Procedure History Name  
**Operator:** Equal  
**Value:** Tricuspid Valve Repair Surgery  
 ----- AND -----

**Element:** 14268      Procedure History Occurrence  
**Operator:** Equal  
**Value:** Yes  
 ----- AND -----

**Element:** 13171      TVT Pathway  
**Operator:** Equal  
**Value:** Tricuspid Valve Procedure



Section: Tricuspid Valve Intervention

Parent: Procedure History Details

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

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

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

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



Section: Transcatheter TV Replacement

Parent: Procedure History Details

<b>Element:</b> 14301	Transcatheter Tricuspid Valve Replacement Implant ID	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the implant ID of the prosthetic tricuspid valve.	<b>Code:</b> 11200001810
<b>Target Value:</b>	The last value between birth and the first procedure in this admission	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> TTVRImpantID
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single (Dynamic List)
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
<b>Element:</b> 12905	Procedure History Name	
<b>Operator:</b>	Equal	
<b>Value:</b>	Tricuspid Valve Replacement - Transcatheter	
----- AND -----		
<b>Element:</b> 14268	Procedure History Occurrence	
<b>Operator:</b>	Equal	
<b>Value:</b>	Yes	
----- AND -----		
<b>Element:</b> 13171	TVT Pathway	
<b>Operator:</b>	Equal	
<b>Value:</b>	Tricuspid Valve Procedure	

<b>Element:</b> 14517	Transcatheter Tricuspid Valve Replacement Implant Diameter	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the tricuspid valve implant size.	<b>Code:</b> 11200001810
<b>Target Value:</b>	The last value between birth and the first procedure in this admission	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> TTVRImpantDia
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> PQ
		<b>Precision:</b> 3,0
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> mm
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 16 - 36 mm
		<b>Valid Range:</b> 5 - 100 mm
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
<b>Element:</b> 14301	Transcatheter Tricuspid Valve Replacement Implant ID	
<b>Operator:</b>		
<b>Value:</b>	Any Value	



Section: Lab Visit

Parent: Root

Element: 14273	Transcatheter Valve Therapy Procedure Type	Technical Specification
<b>Coding Instruction:</b>	Indicate the TVT procedure performed.	<b>Code:</b> 11200001167
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> ACC NCDR
<b>Vendor Instruction:</b>	Transcatheter Valve Therapy Procedure Type (14273) cannot be (Transcatheter Mitral Valve Repair) When Procedure History Name (12905) is (Mitral Valve Replacement Surgery) with Procedure History Occurrence as (Yes) AND Mitral Valve Transcatheter Intervention Type (14261) is (Valve in Native Valve Procedure OR Valve in Valve Procedure)  Within an episode, a lab visit for Transcatheter Mitral Valve Repair can not happen in any subsequent lab visit(s) for Transcatheter Mitral Valve Replacement.	<b>Short Name:</b> TVTProType <b>Missing Data:</b> Illegal <b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> CD <b>Precision:</b> <b>Selection Type:</b> Multiple <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> 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		11200001801	ACC NCDR
TMVR	Transcatheter mitral valve replacement		11200001458	ACC NCDR
Tricuspid Valve Procedure	Transcatheter tricuspid valve procedures include either a transcatheter tricuspid valve replacement or transcatheter tricuspid valve repair.		11200001977	ACC NCDR

Element: 13329	Procedure Room Entry Date and Time	Technical Specification
<b>Coding Instruction:</b>	Indicate the date and time the patient entered the procedure room.	<b>Code:</b> 11200001197
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> ACC NCDR
<b>Supporting Definition:</b>	<b>Procedure Room Entry</b> Concept associated with data elements pertaining to a patient's entry into a procedure room. <b>Source:</b>	<b>Short Name:</b> TVTProcedureEntryTime <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> TS <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
<b>Vendor Instruction:</b>	Procedure Room Entry Date and Time (13329) must be Less than or Equal to Procedure Start Date and Time (7000)	



Section: Lab Visit

Parent: Root

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

Element: 7005	Procedure End Date and Time	Technical Specification
<b>Coding Instruction:</b>	Indicate the ending date and time at which the operator completes the procedure and breaks scrub at the end of the procedure.	<b>Code:</b> 1000142459
	<b>Note(s):</b> 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.	<b>Code System Name:</b> ACC NCDR
<b>Target Value:</b>	The value on current procedure	<b>Short Name:</b> ProcedureEndDateTime
<b>Vendor Instruction:</b>	Procedure End Date and Time (7005) must be Greater than or Equal to Procedure Start Date and Time (7000)	<b>Missing Data:</b> Illegal
	Procedure End Date and Time (7005) must be Less than or Equal to Discharge Date (10100)	<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
	Procedure End Date and Time (7005) and Procedure Start Date and Time (7000) must not overlap on multiple procedures	<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> TS
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User

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



Section: Lab Visit

Parent: Root

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



Section: Presentation and Evaluation

Parent: Lab Visit

<b>Element:</b> 12177	CAD Presentation	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the patient's coronary artery disease (CAD) presentation. Choose the worst status.	<b>Code:</b> 11200000109
<b>Target Value:</b>	The highest value between 7 days prior to arrival and current procedure	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> CADPresentation
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> 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.		11200000120	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

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



Section: Presentation and Evaluation

Parent: Lab Visit

**Element:** 12163      New York Heart Association Classification

**Coding Instruction:** Indicate the patient's most severe dyspnea or functional class, coded as the New York Heart Association (NYHA) classification.

**Target Value:** The highest value between 2 weeks prior to current procedure and current procedure

**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

**Technical Specification**

**Code:** 420816009  
**Code System Name:** SNOMED CT  
**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

**Coding Instruction:** Indicate if the patient has been in a state of cardiogenic shock within 24 hrs of procedure.

**Target Value:** Any occurrence between 24 hours prior to current procedure and up to current procedure

**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.

**Technical Specification**

**Code:** 89138009  
**Code System Name:** SNOMED CT  
**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

<b>Element:</b> 14267	Cardiac Arrest	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the patient has had an episode of cardiac arrest within 24 hours of the procedure.	<b>Code:</b> 410429000
<b>Target Value:</b>	Any occurrence between 24 hours prior to current procedure and up to current procedure	<b>Code System Name:</b> SNOMED CT
<b>Supporting Definition:</b>	<b>Cardiac Arrest</b> 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. <b>Source:</b> Data Governance Subcommittee of the NCDR's SQOC	<b>Short Name:</b> PriorCardArrest <b>Missing Data:</b> Report <b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> BL <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User

<b>Element:</b> 13186	Symptoms of Aortic Stenosis Present	<b>Technical Specification</b>
<b>Coding Instruction:</b>	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.	<b>Code:</b> 60573004 <b>Code System Name:</b> SNOMED CT <b>Short Name:</b> SxAS <b>Missing Data:</b> Report <b>Harvested:</b> Yes (BDS, TAVR) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> CD <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
<b>Target Value:</b>	Any occurrence between 3 months prior to arrival at this facility and start of the procedure	
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type <b>Operator:</b> Equal <b>Value:</b> TAVR ----- AND ----- <b>Element:</b> 13188 Symptoms of Aortic Stenosis Not Documented <b>Operator:</b> Equal <b>Value:</b> 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

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

<b>Element:</b> 13191	Five Meter Walk Test Performed	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate whether the five meter walk test was performed.	<b>Code:</b> 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.	<b>Code System Name:</b> ACC NCDR
<b>Target Value:</b>	The last value between 90 days prior to the start of the current procedure and the start of procedure	<b>Short Name:</b> FiveMWalkTest
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> 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      Six Minute Walk Test

**Coding Instruction:** Indicate whether the six minute walk test was performed.  
**Target Value:** The last value between 90 days prior to the start of the current procedure and the start of procedure

**Technical Specification**

**Code:** 252478000  
**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

<b>Element:</b> 13698	Society of Thoracic Surgeons Risk Score Type	<b>Technical Specification</b>
<b>Coding Instruction:</b>	<p>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.</p> <p>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</p> <p>Note: Currently there is not a risk score available for tricuspid procedures.</p>	<p><b>Code:</b> 112000001412</p> <p><b>Code System Name:</b> ACC NCDR</p> <p><b>Short Name:</b> STSRiskScoreType</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> CD</p> <p><b>Precision:</b></p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p>
<b>Target Value:</b>	The last value prior to the start of the first procedure	<b>Parent/Child Validation</b>
<b>Vendor Instruction:</b>	<p>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)</p> <p>When Society of Thoracic Surgeons Risk Score Type (13698) is Equal to (Society of Thoracic Surgeons Risk Score for Mitral Valve Repair) then Transcatheter Valve Therapy Procedure Type (14273) must be Equal to (TMVr)</p> <p>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)</p> <p>A Society of Thoracic Surgeons Risk Score Type (13698) may only be entered/selected once</p>	<p><b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> TAVR</p> <p><b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> TMVr</p> <p><b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> TMVr</p>

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

<b>Element:</b> 14271	Society of Thoracic Surgeons Risk Score Measurement	<b>Technical Specification</b>
<p><b>Coding Instruction:</b> 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 (<a href="https://www.sts.org/resources/risk-calculator">https://www.sts.org/resources/risk-calculator</a>)</p> <p><b>Target Value:</b> The last value prior to the start of the first procedure</p>		<p><b>Code:</b> 112000001797</p> <p><b>Code System Name:</b> ACC NCDR</p> <p><b>Short Name:</b> STSRiskScoreValue</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> PQ</p> <p><b>Precision:</b> 6,3</p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b> %</p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b> 2.000 - 15.000 %</p> <p><b>Valid Range:</b> 0.000 - 100.000 %</p> <p><b>Data Source:</b> User</p>
		<b>Parent/Child Validation</b>
		<p><b>Element:</b> 13698 Society of Thoracic Surgeons Risk Score Type</p> <p><b>Operator:</b></p> <p><b>Value:</b> Any Value</p>



Section: Shared Decision Making

Parent: Presentation and Evaluation

<b>Element:</b> 14732	Shared Decision Making	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if shared decision making was performed for the procedure.	<b>Code:</b> 11200002041
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> ACC NCDR
<b>Supporting Definition:</b>	<b>Shared Decision Making</b> 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. <b>Source:</b> AHRQ.gov	<b>Short Name:</b> SDM_Proc
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b>
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User

<b>Element:</b> 14733	Shared Decision Making Tool Used	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if a shared decision making tool was used.	<b>Code:</b> 415806002
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> SNOMED CT
		<b>Short Name:</b> SDM_Tool
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b>
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
<b>Element:</b>	14732 Shared Decision Making	
<b>Operator:</b>	Equal	
<b>Value:</b>	Yes	



Section: Shared Decision Making

Parent: Presentation and Evaluation

<b>Element:</b> 14734	Shared Decision Making Tool Name	<b>Technical Specification</b>
<b>Coding Instruction:</b>	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.	<b>Code:</b> 405083000
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> SNOMED CT
		<b>Short Name:</b> SDM_Tool_Name
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single (Dynamic List)
		<b>Unit of Measure:</b>
		<b>Default Value:</b>
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14733 Shared Decision Making Tool Used
		<b>Operator:</b> Equal
		<b>Value:</b> 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

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

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

<b>Element:</b> 13848	Kansas City Cardiomyopathy Questionnaire 12 Question 1b	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 1b.  Heart Failure Limitation - Walking 1 block on level ground	<b>Code:</b> 11200001542 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> KCCQ12_1b <b>Missing Data:</b> Report <b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> CD <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
<b>Target Value:</b>	The last value between 90 days prior to the start of the current procedure and the start of procedure	<b>Parent/Child Validation</b>
		<b>Element:</b> 13843 Kansas City Cardiomyopathy Questionnaire 12 Performed <b>Operator:</b> Equal <b>Value:</b> 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

<b>Element:</b> 13849	Kansas City Cardiomyopathy Questionnaire 12 Question 1c	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 1c.  Heart Failure Limitation - Hurrying or jogging	<b>Code:</b> 11200001543 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> KCCQ12_1c <b>Missing Data:</b> Report <b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> CD <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
<b>Target Value:</b>	The last value between 90 days prior to the start of the current procedure and the start of procedure	<b>Parent/Child Validation</b>
		<b>Element:</b> 13843 Kansas City Cardiomyopathy Questionnaire 12 Performed <b>Operator:</b> Equal <b>Value:</b> 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

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

<b>Element:</b> 13853	Kansas City Cardiomyopathy Questionnaire 12 Question 3	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 3.  Symptom Frequency - fatigue	<b>Code:</b> 112000001545 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> KCCQ12_3 <b>Missing Data:</b> Report <b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> CD <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
<b>Target Value:</b>	The last value between 90 days prior to the start of the current procedure and the start of procedure	<b>Parent/Child Validation</b>
		<b>Element:</b> 13843 Kansas City Cardiomyopathy Questionnaire 12 Performed <b>Operator:</b> Equal <b>Value:</b> 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      Kansas City Cardiomyopathy Questionnaire 12 Question 4

**Coding Instruction:** Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 4.

Symptom Frequency - shortness of breath

**Target Value:** The last value between 90 days prior to the start of the current procedure and the start of procedure

**Technical Specification**

**Code:** 112000001546

**Code System Name:** ACC NCDR

**Short Name:** KCCQ12\_4

**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      Kansas City Cardiomyopathy Questionnaire 12 Question 5

**Coding Instruction:** Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 5.

Symptom Frequency - sleep sitting up due to shortness of breath

**Target Value:** The last value between 90 days prior to the start of the current procedure and the start of procedure

Technical Specification	
<b>Code:</b>	112000001547
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	KCCQ12_5
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b>	13843      Kansas City Cardiomyopathy Questionnaire 12 Performed
<b>Operator:</b>	Equal
<b>Value:</b>	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

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

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

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

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

**Coding Instruction:** Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 8c.

Social limitation - visiting family or friends

**Target Value:** The last value between 90 days prior to the start of the current procedure and the start of procedure

**Technical Specification**

**Code:** 112000001552  
**Code System Name:** ACC NCDR  
**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      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.

Note(s): The 12 patient responses are reduced into four summary scores (Physical Limitation Score, Symptom Frequency Score, Quality of Life Score, Social Limitation Score). The four summary scores are used to calculate the Overall Summary Score. For more information, please refer to the KCCQ-12 Scoring Instructions document provided by the STS/ACC TVT Registry.

**Target Value:** The value on start of current procedure

**Technical Specification**

**Code:** 112000001540  
**Code System Name:** ACC NCDR  
**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

<b>Element:</b> 13199	Five Meter Walk Test Counter	<b>Technical Specification</b>
<b>Coding Instruction:</b>	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.  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.	<b>Code:</b> 11200002003 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> FiveMWTCCounter <b>Missing Data:</b> Report <b>Harvested:</b> Yes (BDS, TAVR) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> CTR <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> Automatic
<b>Target Value:</b>	N/A	
<b>Supporting Definition:</b>	<b>Five Meter Walk Test</b> An outcome measure in STS the Adult Cardiac Surgery Database to predict frailty in individuals who are candidates for cardiac surgery. <b>Source:</b>	<b>Parent/Child Validation</b> <b>Element:</b> 13191 Five Meter Walk Test Performed <b>Operator:</b> Equal <b>Value:</b> Test Performed

<b>Element:</b> 13201	Five Meter Walk Test Time	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the value of the five meter walk test in seconds.	<b>Code:</b> 11200001184 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> FiveMWTTTime <b>Missing Data:</b> Report <b>Harvested:</b> Yes (BDS, TAVR) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> PQ <b>Precision:</b> 3,0 <b>Selection Type:</b> Single <b>Unit of Measure:</b> sec <b>Default Value:</b> Null <b>Usual Range:</b> 1 - 100 sec <b>Valid Range:</b> 1 - 500 sec <b>Data Source:</b> User
<b>Target Value:</b>	The value on current admission	
<b>Supporting Definition:</b>	<b>Five Meter Walk Test</b> An outcome measure in STS the Adult Cardiac Surgery Database to predict frailty in individuals who are candidates for cardiac surgery. <b>Source:</b>	<b>Parent/Child Validation</b> <b>Element:</b> 13191 Five Meter Walk Test Performed <b>Operator:</b> Equal <b>Value:</b> Test Performed



Section: Six Minute Walk Test

Parent: Presentation and Evaluation

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

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



Section: Six Minute Walk Test

Parent: Presentation and Evaluation

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

<b>Element:</b> 6030	Hemoglobin	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the hemoglobin (Hgb) value in g/dL.	<b>Code:</b> 718-7
	<b>Note(s):</b> This may include POC (Point of Care) testing results or results obtained prior to arrival at this facility.	<b>Code System Name:</b> LOINC
<b>Target Value:</b>	The last value within 30 days prior to the first procedure in this admission	<b>Short Name:</b> HGB
<b>Supporting Definition:</b>	<b>Hemoglobin</b> 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. <b>Source:</b> <a href="http://s.details.loinc.org/LOINC/718-7.html?sections=Simple">http://s.details.loinc.org/LOINC/718-7.html?sections=Simple</a>	<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> PQ
		<b>Precision:</b> 4,2
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> g/dL
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 5.00 - 20.00 g/dL
		<b>Valid Range:</b> 1.00 - 50.00 g/dL
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 6031 Hemoglobin Not Drawn
		<b>Operator:</b> Equal
		<b>Value:</b> No (or Not Answered)

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



Section: Pre-Procedure Clinical Data

Parent: Presentation and Evaluation

<b>Element:</b> 6035	Sodium	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the sodium (Na) level, in mEq/L.	<b>Code:</b> 2950-4
<b>Target Value:</b>	The last value within 30 days prior to the first procedure in this admission	<b>Code System Name:</b> LOINC
<b>Supporting Definition:</b>	<p><b>Sodium</b></p> <p>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.</p> <p><b>Source:</b> <a href="http://s.details.loinc.org/LOINC/2950-4.html?sections=Simple">http://s.details.loinc.org/LOINC/2950-4.html?sections=Simple</a></p>	<p><b>Short Name:</b> Sodium</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> PQ</p> <p><b>Precision:</b> 3,0</p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b> mEq/L</p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b> 120 - 150 mEq/L</p> <p><b>Valid Range:</b> 1 - 300 mEq/L</p> <p><b>Data Source:</b> User</p>
		<b>Parent/Child Validation</b>
		<b>Element:</b> 6036 Sodium Not Drawn
		<b>Operator:</b> Equal
		<b>Value:</b> No (or Not Answered)

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



Section: Pre-Procedure Clinical Data

Parent: Presentation and Evaluation

<b>Element:</b> 6050	Creatinine	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the creatinine (Cr) level mg/dL.	<b>Code:</b> 2160-0
	<b>Note(s):</b> This may include POC (Point of Care) testing results or results obtained prior to arrival at this facility.	<b>Code System Name:</b> LOINC
<b>Target Value:</b>	The last value between 30 days prior to the procedure and the current procedure	<b>Short Name:</b> PreProcCreat
<b>Supporting Definition:</b>	<b>Creatinine</b> 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. <b>Source:</b> <a href="http://s.details.loinc.org/LOINC/2160-0.html?sections=Simple">http://s.details.loinc.org/LOINC/2160-0.html?sections=Simple</a>	<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> PQ
		<b>Precision:</b> 4,2
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> mg/dL
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 0.10 - 5.00 mg/dL
		<b>Valid Range:</b> 0.10 - 30.00 mg/dL
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 6051 Creatinine Not Drawn
		<b>Operator:</b> Equal
		<b>Value:</b> No (or Not Answered)

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



Section: Pre-Procedure Clinical Data

Parent: Presentation and Evaluation

<b>Element:</b> 6055	<b>Bilirubin (Total)</b>	<b>Technical Specification</b>
	<p><b>Coding Instruction:</b> Indicate the total bilirubin (mg/dL)</p> <p>Note(s): This may include POC (Point of Care) testing results.</p> <p><b>Target Value:</b> The last value between 30 days prior to the procedure and the current procedure</p> <p><b>Supporting Definition: Bilirubin (Total)</b> 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.</p> <p><b>Source:</b> <a href="http://s.details.loinc.org/LOINC/42719-5.html?sections=Simple">http://s.details.loinc.org/LOINC/42719-5.html?sections=Simple</a></p>	<p><b>Code:</b> 42719-5</p> <p><b>Code System Name:</b> LOINC</p> <p><b>Short Name:</b> Bilirubin</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TAVR, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> PQ</p> <p><b>Precision:</b> 4,2</p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b> mg/dL</p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b> 0.05 - 1.50 mg/dL</p> <p><b>Valid Range:</b> 0.01 - 30.00 mg/dL</p> <p><b>Data Source:</b> User</p>
		<b>Parent/Child Validation</b>
		<p><b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> TAVR</p> <p><b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> Tricuspid Valve Procedure</p> <p>----- AND -----</p> <p><b>Element:</b> 6056 Bilirubin Not Drawn</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> No (or Not Answered)</p>

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



Section: Pre-Procedure Clinical Data

Parent: Presentation and Evaluation

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

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



Section: Pre-Procedure Clinical Data

Parent: Presentation and Evaluation

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

<b>Element:</b> 13203	INR	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the international normalized ratio (INR) if the patient is on routine warfarin or coumadin therapy.	<b>Code:</b> 34714-6
<b>Target Value:</b>	The last value between 30 days prior to the procedure and the current procedure	<b>Code System Name:</b> LOINC
<b>Supporting Definition:</b>	<b>International Normalized Ratio (INR)</b> 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) raised to the power of 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. <b>Source:</b> <a href="http://s.details.loinc.org/LOINC/6301-6.html?sections=Simple">http://s.details.loinc.org/LOINC/6301-6.html?sections=Simple</a>	<b>Short Name:</b> INRtvt <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TAVR, TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> PQ <b>Precision:</b> 3,1 <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> 0.9 - 1.3 <b>Valid Range:</b> 0.5 - 30.0 <b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type <b>Operator:</b> Equal <b>Value:</b> TAVR
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type <b>Operator:</b> Equal <b>Value:</b> Tricuspid Valve Procedure
		----- AND -----
		<b>Element:</b> 6046 International Normalized Ratio Not Drawn <b>Operator:</b> Equal <b>Value:</b> No (or Not Answered)

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



Section: Pre-Procedure Clinical Data

Parent: Presentation and Evaluation

Element: 14280      BNP		Technical Specification
<b>Coding Instruction:</b>	Indicate the B-type natriuretic peptide (BNP) value.	<b>Code:</b> 42637-9
<b>Target Value:</b>	The last value between birth and the first procedure in this admission	<b>Code System Name:</b> LOINC
<b>Supporting Definition:</b>	<p><b>Natriuretic peptide B</b></p> <p>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.</p> <p><b>Source:</b> <a href="http://s.details.loinc.org/LOINC/42637-9.html?sections=Simple">http://s.details.loinc.org/LOINC/42637-9.html?sections=Simple</a></p>	<b>Short Name:</b> PreProc_BNPValue <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TMVR, TMVrpr, TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> PQ <b>Precision:</b> 5,0 <b>Selection Type:</b> Single <b>Unit of Measure:</b> pg/mL <b>Default Value:</b> Null <b>Usual Range:</b> 5 - 1,000 pg/mL <b>Valid Range:</b> 1 - 10,000 pg/mL <b>Data Source:</b> User
		Parent/Child Validation
		<b>Element:</b> 13205    B-Type Natriuretic Peptide Not Drawn <b>Operator:</b> Equal <b>Value:</b> No (or Not Answered) ----- AND -----
		<b>Element:</b> 14273    Transcatheter Valve Therapy Procedure Type <b>Operator:</b> Equal <b>Value:</b> TMVR
		<b>Element:</b> 14273    Transcatheter Valve Therapy Procedure Type <b>Operator:</b> Equal <b>Value:</b> Tricuspid Valve Procedure
		<b>Element:</b> 14273    Transcatheter Valve Therapy Procedure Type <b>Operator:</b> Equal <b>Value:</b> TMVr



Section: Pre-Procedure Clinical Data

Parent: Presentation and Evaluation

Element: 13205 B-Type Natriuretic Peptide Not Drawn

Coding Instruction: Indicate if a pre-procedure B-type natriuretic peptide (BNP) was not collected.

Target Value: N/A

Technical Specification

Code: 42637-9

Code System Name: LOINC

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

<b>Element:</b> 14279	N-Terminal Pro B-Type Natriuretic Peptide Value	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the N-Terminal Pro B-Type Natriuretic Peptide (NT-proBNP) Value.	<b>Code:</b> 33762-6
<b>Target Value:</b>	The last value between 6 months prior to procedure and the start of the current procedure	<b>Code System Name:</b> LOINC
<b>Supporting Definition:</b>	<b>N-Terminal Pro B-Type Natriuretic Peptide Value</b>	<b>Short Name:</b> PreProcedureNTBNP
	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	<b>Missing Data:</b> Report
	<b>Source:</b> <a href="http://s.details.loinc.org/LOINC/33762-6.html?sections=Simple">http://s.details.loinc.org/LOINC/33762-6.html?sections=Simple</a>	<b>Harvested:</b> Yes (TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> PQ
		<b>Precision:</b> 5,0
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> pg/mL
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 5 - 30,000 pg/mL
		<b>Valid Range:</b> 5 - 30,000 pg/mL
		<b>Data Source:</b> User
<b>Parent/Child Validation</b>		
<b>Element:</b> 13206	N-Terminal Pro B-Type Natriuretic Peptide Not Drawn	
<b>Operator:</b> Equal	<b>Value:</b> No (or Not Answered)	
----- AND -----		
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type	
<b>Operator:</b> Equal	<b>Value:</b> TMVR	
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type	
<b>Operator:</b> Equal	<b>Value:</b> Tricuspid Valve Procedure	
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type	
<b>Operator:</b> Equal	<b>Value:</b> TMVr	



Section: Pre-Procedure Clinical Data

Parent: Presentation and Evaluation

**Element:** 13206      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.

**Target Value:** N/A

**Technical Specification**

**Code:** 33762-6  
**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

<b>Element:</b> 13216	Forced Expiratory Volume in One Second Predicted	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the FEV1 % predicted from the most recent pulmonary function test prior to procedure.	<b>Code:</b> 19925-7
<b>Target Value:</b>	The last value between 12 months prior to arrival and start of the first procedure	<b>Code System Name:</b> LOINC
<b>Supporting Definition:</b>	<b>FEV1</b> 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. <b>Source:</b> NCI Thesaurus	<b>Short Name:</b> FEV1 <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> PQ <b>Precision:</b> 3,0 <b>Selection Type:</b> Single <b>Unit of Measure:</b> % <b>Default Value:</b> Null <b>Usual Range:</b> 25 - 100 % <b>Valid Range:</b> 1 - 150 % <b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13217 Forced Expiratory Volume in One Second Predicted Not Performed
		<b>Operator:</b> Equal
		<b>Value:</b> No (or Not Answered)

<b>Element:</b> 13217	Forced Expiratory Volume in One Second Predicted Not Performed	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate whether % predicted Forced Expiratory Volume (FEV1) was not performed or the patient did not have a pulmonary function test prior to the procedure.	<b>Code:</b> 19925-7
<b>Target Value:</b>	N/A	<b>Code System Name:</b> LOINC
<b>Supporting Definition:</b>	<b>FEV1</b> 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. <b>Source:</b> NCI Thesaurus	<b>Short Name:</b> FEV1ND <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> BL <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User



Section: Pre-Procedure ECG and Pulmonary Function

Parent: Presentation and Evaluation

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

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



Section: Pre-Procedure ECG and Pulmonary Function

Parent: Presentation and Evaluation

**Element:** 5055      Non-Ventricular Paced QRS duration

**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.

**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.

**Target Value:** The last value within 30 days prior to the first procedure in this admission

Technical Specification	
<b>Code:</b>	251208001
<b>Code System Name:</b>	SNOMED CT
<b>Short Name:</b>	NVPQRS
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (TMVR, TMVrpr, TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	PQ
<b>Precision:</b>	3,0
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	msec
<b>Default Value:</b>	Null
<b>Usual Range:</b>	20 - 250 msec
<b>Valid Range:</b>	10 - 300 msec
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	TMVR
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	Tricuspid Valve Procedure
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	TMVr
----- AND -----	
<b>Element:</b> 5045	Only Ventricular Paced QRS Complexes Present
<b>Operator:</b>	Equal
<b>Value:</b>	No (or Not Answered)



Section: Pre-Procedure ECG and Pulmonary Function

Parent: Presentation and Evaluation

<b>Element:</b> 5045	Only Ventricular Paced QRS Complexes Present	<b>Technical Specification</b>
<p><b>Coding Instruction:</b> Indicate if there were only ventricular paced QRS complexes present.</p> <p>Note(s): If the patient has some intrinsic ventricular complexes present, code "No".</p> <p>If no ECG is available, a pre-procedure 6 inch cardiac rhythm strip or clinician documentation may be utilized to obtain this information.</p> <p><b>Target Value:</b> The last value within 30 days prior to the first procedure in this admission</p>		<p><b>Code:</b> 100001120</p> <p><b>Code System Name:</b> ACC NCDR</p> <p><b>Short Name:</b> VPQRS</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> BL</p> <p><b>Precision:</b></p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p>
		<p><b>Parent/Child Validation</b></p> <p><b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> TMVR</p> <p><b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> Tricuspid Valve Procedure</p> <p><b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> TMVr</p>



Section: Pre-Procedure Medication(s)

Parent: Presentation and Evaluation

<b>Element:</b> 13699	Anticoagulants Administered	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate whether anticoagulants were administered.	<b>Code:</b> 11200001416
<b>Target Value:</b>	Any occurrence between 24 hours prior to current procedure and up to current procedure	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> PreProcAnticoag
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> 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

<b>Element:</b> 13643	Positive Inotropes Administered	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if positive inotropes was administered.	<b>Code:</b> 11200001358
	For patients requiring IV inotropic support, indicate positive inotropes only.	<b>Code System Name:</b> ACC NCDR
<b>Target Value:</b>	Any occurrence between 24 hours prior to current procedure and up to current procedure	<b>Short Name:</b> PreOpInotropes
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> 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

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

<b>Element:</b> 13222	Diagnostic Catheterization Date	<b>Technical Specification</b>
	<b>Coding Instruction:</b> Indicate the date the diagnostic catheterization was performed.	<b>Code:</b> 41976001
	<b>Target Value:</b> The last value between 12 months prior to arrival and start of the first procedure	<b>Code System Name:</b> SNOMED CT
		<b>Short Name:</b> DxCathDt
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> DT
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
<b>Parent/Child Validation</b>		
<b>Element:</b> 13220	Diagnostic Catheterization Performed	
<b>Operator:</b>	Equal	
<b>Value:</b>	Yes	



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

<b>Element:</b> 13381	Number of Diseased Vessels
<b>Coding Instruction:</b>	Indicate the number of diseased major native coronary vessel systems: LAD system, circumflex system, and/or right system with >= 50% narrowing of any vessel preoperatively.
	Notes: 1. Do not include coronary artery bypass grafts. 2. Left main disease (>=50%) is counted as TWO vessels (LAD and Circumflex, which may include a Ramus Intermedius). For example, left main and RCA would count as three total.
<b>Target Value:</b>	The highest value between birth and start of the procedure

Technical Specification	
<b>Code:</b>	11200000201
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	NumDisV
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (TAVR, TMVR, TMVrpr, TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User

Parent/Child Validation	
<b>Element:</b> 13382	Number of Diseased Vessels Not Documented
<b>Operator:</b>	Equal
<b>Value:</b>	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

<b>Element:</b> 13382	Number of Diseased Vessels Not Documented
<b>Coding Instruction:</b>	Indicate true if the number of diseased vessels was not documented in the medical record.
<b>Target Value:</b>	N/A

Technical Specification	
<b>Code:</b>	11200000201
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	NumDisVND
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (TAVR, TMVR, TMVrpr, TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	BL
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

<b>Element:</b> 13260	Left Main Stenosis Greater Than or Equal to 50 Percent	<b>Technical Specification</b>
<b>Coding Instruction:</b>	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.	<b>Code:</b> 11200001186
<b>Target Value:</b>	The last value between 12 months prior to arrival and start of the first procedure	<b>Code System Name:</b> ACC NCDR
<b>Supporting Definition:</b>	<b>Left Main Stenosis</b> Stenosis of the left main coronary artery.	<b>Short Name:</b> LMainDis
<b>Source:</b>		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13261 Left Main Stenosis Not Documented
		<b>Operator:</b> Equal
		<b>Value:</b> 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

<b>Element:</b> 13261	Left Main Stenosis Not Documented	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate whether the % stenosis of the left main coronary artery was not documented.	<b>Code:</b> 11200001186
<b>Target Value:</b>	N/A	<b>Code System Name:</b> ACC NCDR
<b>Supporting Definition:</b>	<b>Left Main Stenosis</b> Stenosis of the left main coronary artery.	<b>Short Name:</b> LMainDisND
<b>Source:</b>		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

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

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

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

Parent: Presentation and Evaluation

**Element:** 13496      **Syntax Score**

**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

Technical Specification	
<b>Code:</b>	10001424796
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	Syntax
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (TAVR)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b>	14273    Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	TAVR
----- AND -----	
<b>Element:</b>	13497    Syntax Score Not Documented
<b>Operator:</b>	Equal
<b>Value:</b>	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 (22-32)	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**

**Coding Instruction:** Indicate if the syntax score was not documented in the medical record.

**Target Value:** N/A

Technical Specification	
<b>Code:</b>	10001424796
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	SyntaxND
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (TAVR)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	BL
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b>	14273    Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	TAVR



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

**Element:** 13713      Cardiac Output

**Coding Instruction:** Indicate the cardiac output in L/min, documented by pre-procedure diagnostic cardiac cath findings.

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

**Technical Specification**

**Code:** 82799009  
**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

Coding Instruction: Indicate if the cardiac output was not documented.

Target Value: N/A

Technical Specification

Code: 82799009

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 Pulmonary Capillary Wedge Pressure

**Coding Instruction:** Indicate the pulmonary capillary wedge pressure, in mm Hg.  
**Target Value:** The last value between 12 months prior to arrival and start of the first procedure

**Technical Specification**

**Code:** 118433006  
**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

**Coding Instruction:** Indicate if the pulmonary capillary wedge pressure was not documented.

**Target Value:** N/A

**Technical Specification**

**Code:** 118433006

**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

**Coding Instruction:** Indicate the pulmonary artery mean pressure, in mm Hg.  
**Target Value:** The last value between 12 months prior to arrival and start of the first procedure

**Technical Specification**

**Code:** 112000001423  
**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

<p><b>Element:</b> 13720      Pulmonary Artery Mean Pressure Not Documented</p> <p><b>Coding Instruction:</b> Indicate the pulmonary artery mean pressure, in mm Hg.</p> <p><b>Target Value:</b> N/A</p>	<p><b>Technical Specification</b></p> <p><b>Code:</b> 11200001423</p> <p><b>Code System Name:</b> ACC NCDR</p> <p><b>Short Name:</b> PAPMean_ND</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> BL</p> <p><b>Precision:</b></p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p> <p><b>Parent/Child Validation</b></p> <p><b>Element:</b> 14273      Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> TMVR</p> <p><b>Element:</b> 14273      Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> Tricuspid Valve Procedure</p> <p><b>Element:</b> 14273      Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> TMVr</p>
<p><b>Element:</b> 13717      Pulmonary Artery Systolic Pressure</p> <p><b>Coding Instruction:</b> Indicate the pulmonary artery systolic pressure, in mm Hg.</p> <p><b>Target Value:</b> The last value between 12 months prior to arrival and start of the first procedure</p>	<p><b>Technical Specification</b></p> <p><b>Code:</b> 250768007</p> <p><b>Code System Name:</b> SNOMED CT</p> <p><b>Short Name:</b> PAPSys</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TMVR, TMVrpr)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> PQ</p> <p><b>Precision:</b> 3,0</p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b> mm[Hg]</p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b> 10 - 35 mm[Hg]</p> <p><b>Valid Range:</b> 1 - 150 mm[Hg]</p> <p><b>Data Source:</b> User</p> <p><b>Parent/Child Validation</b></p> <p><b>Element:</b> 14273      Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> TMVR</p> <p><b>Element:</b> 14273      Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> TMVr</p> <p>----- AND -----</p> <p><b>Element:</b> 13718      Pulmonary Artery Systolic Pressure Not Documented</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> No (or Not Answered)</p>



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

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

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



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

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

<b>Element:</b> 14272	Right Atrial Pressure	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the mean right atrial pressure (RAP) in mm Hg.	<b>Code:</b> 276755008
	This can also be documented as the central venous pressure (CVP).	<b>Code System Name:</b> SNOMED CT
<b>Target Value:</b>	The last value between 12 months prior to arrival and start of the first procedure	<b>Short Name:</b> RAP
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> PQ
		<b>Precision:</b> 2,0
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> mm[Hg]
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 1 - 10 mm[Hg]
		<b>Valid Range:</b> 0 - 35 mm[Hg]
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TMVR
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> Tricuspid Valve Procedure
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TMVr
		----- AND -----
		<b>Element:</b> 13829 Right Atrial Pressure Not Documented
		<b>Operator:</b> Equal
		<b>Value:</b> No (or Not Answered)



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

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



Section: Pre-Procedure Diagnostic Cath Findings

Parent: Presentation and Evaluation

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



Section: Pre-Procedure CTA Findings

Parent: Presentation and Evaluation

<b>Element:</b> 13422	Aortic Valve Annulus Assessment Method	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the method used to assess the aortic valve annulus size.  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.	<b>Code:</b> 11200001238 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> AVDAnnulusSizeMethod <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TAVR) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> CD <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
<b>Target Value:</b>	The value on current procedure	
<b>Supporting Definition:</b>	<b>AV Annulus Assessment Method</b> The imaging modality method used to assess the aortic valve annulus. <b>Source:</b>	
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type <b>Operator:</b> Equal <b>Value:</b> 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

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



Section: Pre-Procedure CTA Findings

Parent: Presentation and Evaluation

<b>Element:</b> 13429      Aortic Valve Annulus Maximum Diameter	<b>Technical Specification</b>
<p><b>Coding Instruction:</b> Indicate the maximum diameter of the aortic valve annulus, in mm.</p> <p>Note: Document aortic valve annulus measurements that are available, preferably measured from a CT.</p> <p><b>Target Value:</b> The value on current procedure</p>	<p><b>Code:</b> 11200001241</p> <p><b>Code System Name:</b> ACC NCDR</p> <p><b>Short Name:</b> AVAnnulusMaxDia</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TAVR)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> PQ</p> <p><b>Precision:</b> 3,1</p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b> mm</p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b> 10.0 - 40.0 mm</p> <p><b>Valid Range:</b> 5.0 - 80.0 mm</p> <p><b>Data Source:</b> User</p> <hr/> <p><b>Parent/Child Validation</b></p> <p><b>Element:</b> 14273      Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> TAVR</p>

<b>Element:</b> 13438      Aortic Valve Annulus Area	<b>Technical Specification</b>
<p><b>Coding Instruction:</b> Indicate the area of the aortic valve annulus, in mm2.</p> <p>Note: Document aortic valve annulus measurements that are available, preferably measured from a CT.</p> <p><b>Target Value:</b> The value on current procedure</p>	<p><b>Code:</b> 11200001251</p> <p><b>Code System Name:</b> ACC NCDR</p> <p><b>Short Name:</b> AVAnnulusArea</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TAVR)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> PQ</p> <p><b>Precision:</b> 4,1</p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b> mm2</p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b> 100.0 - 600.0 mm2</p> <p><b>Valid Range:</b> 100.0 - 999.0 mm2</p> <p><b>Data Source:</b> User</p> <hr/> <p><b>Parent/Child Validation</b></p> <p><b>Element:</b> 14273      Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> TAVR</p>



Section: Pre-Procedure CTA Findings

Parent: Presentation and Evaluation

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

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

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



Section: Left Ventricular Ejection

Parent: Pre-Procedure Echocardiogram Findings

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

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



Section: Left Ventricular Dimension

Parent: Pre-Procedure Echocardiogram Findings

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

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



Section: Left Ventricular Dimension

Parent: Pre-Procedure Echocardiogram Findings

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

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



Section: Left Ventricular Dimension

Parent: Pre-Procedure Echocardiogram Findings

**Element:** 13725 Left Ventricular End Systolic Volume

**Coding Instruction:** Indicate the left ventricular end systolic volume in ml documented by echocardiogram.

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

**Technical Specification**

**Code:** 250931004  
**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

**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:** 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

**Coding Instruction:** Indicate the left ventricular end diastolic volume in ml, documented by echocardiogram.

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

**Technical Specification**

**Code:** 250932006  
**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

**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:** 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**

<b>Element:</b> 13729	Left Atrial Volume	<b>Technical Specification</b>
	<p><b>Coding Instruction:</b> Indicate the left atrial volume in ml documented by echocardiogram.</p> <p><b>Target Value:</b> The last value between 12 months prior to arrival and start of the first procedure</p>	<p><b>Code:</b> 11200001426</p> <p><b>Code System Name:</b> ACC NCDR</p> <p><b>Short Name:</b> LAVoI</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TMVR, TMVrpr)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> PQ</p> <p><b>Precision:</b> 3,0</p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b> mL</p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b> 10 - 90 mL</p> <p><b>Valid Range:</b> 1 - 500 mL</p> <p><b>Data Source:</b> User</p>
		<b>Parent/Child Validation</b>
		<p><b>Element:</b> 13730 Left Atrial Volume Not Measured</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> No (or Not Answered)</p> <p>----- AND -----</p> <p><b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> TMVR</p> <p><b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> TMVr</p>

<b>Element:</b> 13730	Left Atrial Volume Not Measured	<b>Technical Specification</b>
	<p><b>Coding Instruction:</b> Indicate if the left atrial volume was not measured.</p> <p><b>Target Value:</b> N/A</p>	<p><b>Code:</b> 11200001426</p> <p><b>Code System Name:</b> ACC NCDR</p> <p><b>Short Name:</b> LAVoI_NM</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TMVR, TMVrpr)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> BL</p> <p><b>Precision:</b></p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p>
		<b>Parent/Child Validation</b>
		<p><b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> TMVR</p> <p><b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> TMVr</p>



Section: Left Atrial Volume

Parent: Pre-Procedure Echocardiogram Findings

**Element:** 13731      Left Atrial Volume Index

**Coding Instruction:** Indicate the left atrial volume index in mL/m2, documented by echocardiogram.  
**Target Value:** The last value between 12 months prior to arrival and start of the first procedure

**Technical Specification**

**Code:** 112000001427  
**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

**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:** 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

**Coding Instruction:** Indicate primary etiology of aortic valve disease.

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

**Supporting Definition:** **Aortic Valve Disease Etiology**  
The cause of aortic valve disease.

**Source:**

Technical Specification	
<b>Code:</b>	11200001253
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	VDAoEt
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (BDS, TAVR)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b>	14273 Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	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			11200001254	ACC NCDR
Endocarditis			56819008	SNOMED CT
Rheumatic			58718002	SNOMED CT
Other			100000351	ACC NCDR

**Element:** 13468      Aortic Valve Morphology

**Coding Instruction:** Indicate the morphology of the aortic valve.  
If a patient was born with a tricuspid valve with two leaflets that are fused, code tricuspid.

**Target Value:** The value at birth

**Supporting Definition:** **Aortic Valve Disease**  
A disorder characterized by a defect in aortic valve function or structure.

**Source:**

Technical Specification	
<b>Code:</b>	8722008
<b>Code System Name:</b>	SNOMED CT
<b>Short Name:</b>	AVMorphology
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (BDS, TAVR)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b>	14273 Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	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

<b>Element:</b> 13469	Ascending Aorta Size	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the size, in cm, of the ascending aorta.	<b>Code:</b> 11200001258
<b>Target Value:</b>	The last value between 12 months prior to arrival and start of the first procedure	<b>Code System Name:</b> ACC NCDR
<b>Supporting Definition:</b>	<b>Ascending Aorta Measurement</b> Quantitative measurement of the ascending aorta.	<b>Short Name:</b> AASize
<b>Source:</b>		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> PQ
		<b>Precision:</b> 3,1
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> cm
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 0.2 - 8.0 cm
		<b>Valid Range:</b> 0.0 - 12.0 cm
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13468 Aortic Valve Morphology
		<b>Operator:</b> Equal
		<b>Value:</b> Bicuspid Aortic Valve
		----- AND -----
		<b>Element:</b> 13470 Ascending Aorta Size Not Documented
		<b>Operator:</b> Equal
		<b>Value:</b> No (or Not Answered)

<b>Element:</b> 13470	Ascending Aorta Size Not Documented	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the size of the ascending aorta was not documented in the medical record.	<b>Code:</b> 11200001258
<b>Target Value:</b>	N/A	<b>Code System Name:</b> ACC NCDR
<b>Supporting Definition:</b>	<b>Ascending Aorta Measurement</b> Quantitative measurement of the ascending aorta.	<b>Short Name:</b> AASizeND
<b>Source:</b>		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13468 Aortic Valve Morphology
		<b>Operator:</b> Equal
		<b>Value:</b> Bicuspid Aortic Valve



Section: Aortic Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

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

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

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

<b>Element:</b> 13481	Aortic Valve Area	<b>Technical Specification</b>
	<b>Coding Instruction:</b> Indicate the smallest aortic valve area (in cm squared) obtained from an echocardiogram or cath report.	<b>Code:</b> 112000001280
	<b>Target Value:</b> The lowest value between 12 months prior to start of procedure and start of procedure	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> VDAoVA
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> PQ
		<b>Precision:</b> 3,2
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> cm2
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 0.20 - 4.00 cm2
		<b>Valid Range:</b> 0.05 - 5.00 cm2
		<b>Data Source:</b> User
<b>Parent/Child Validation</b>		
<b>Element:</b> 13307	Aortic Stenosis	
<b>Operator:</b> Equal		
<b>Value:</b> Yes		
----- AND -----		
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type	
<b>Operator:</b> Equal		
<b>Value:</b> TAVR		



Section: Aortic Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

<b>Element:</b> 13674	Aortic Valve Mean Gradient	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the highest MEAN gradient (in mm Hg) across the aortic valve.	<b>Code:</b> 11200001398
<b>Target Value:</b>	The highest value between 12 months prior to the procedure and start of the procedure	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> VDGradA
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> PQ
		<b>Precision:</b> 3,0
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> mm[Hg]
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 5 - 50 mm[Hg]
		<b>Valid Range:</b> 0 - 200 mm[Hg]
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13307 Aortic Stenosis
		<b>Operator:</b> Equal
		<b>Value:</b> Yes
		----- AND -----
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TAVR

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

**Coding Instruction:** Indicate if the stroke volume index was not documented.

**Target Value:** N/A

**Technical Specification**

**Code:** 112000001830  
**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

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

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

**Technical Specification**

**Code:** 112000001413  
**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

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



Section: Mitral Valve Disease

Parent: Pre-Procedure Echocardiogram Findings

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

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

**Coding Instruction:** Indicate the severity of paravalvular 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:** 11200001428

**Code System Name:** ACC NCDR

**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			11200001910	ACC NCDR
Mild			11200000380	ACC NCDR
Moderate			11200000381	ACC NCDR
Severe			11200000382	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:** 11200001428

**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:** 11200001433

**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			11200001910	ACC NCDR
Mild			11200000380	ACC NCDR
Moderate			11200000381	ACC NCDR
Severe			11200000382	ACC NCDR



Section: Mitral Valve Disease

Parent: Pre-Procedure Echocardiogram Findings

<b>Element:</b> 13736      Central Regurgitation Not Documented	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate whether the severity of central regurgitation was not documented.	<b>Code:</b> 112000001433
<b>Target Value:</b> N/A	<b>Code System Name:</b> ACC NCDR
	<b>Short Name:</b> VDInsuffMCentral_ND
	<b>Missing Data:</b> Report
	<b>Harvested:</b> Yes (BDS, TMVR)
	<b>Is Identifier:</b> No
	<b>Is Base Element:</b> Yes
	<b>Is Followup Element:</b> No
	<b>Data Type:</b> BL
	<b>Precision:</b>
	<b>Selection Type:</b> Single
	<b>Unit of Measure:</b>
	<b>Default Value:</b> Null
	<b>Usual Range:</b>
	<b>Valid Range:</b>
	<b>Data Source:</b> User
	<b>Parent/Child Validation</b>
	<b>Element:</b> 14273      Transcatheter Valve Therapy Procedure Type <b>Operator:</b> Equal <b>Value:</b> TMVR
	----- AND -----
	<b>Element:</b> 13672      Mitral Regurgitation <b>Operator:</b> Equal <b>Value:</b> Mild
	<b>Element:</b> 13672      Mitral Regurgitation <b>Operator:</b> Equal <b>Value:</b> Moderate
	<b>Element:</b> 13672      Mitral Regurgitation <b>Operator:</b> Equal <b>Value:</b> Severe
	<b>Element:</b> 13672      Mitral Regurgitation <b>Operator:</b> Equal <b>Value:</b> Trace/Trivial
	<b>Element:</b> 13672      Mitral Regurgitation <b>Operator:</b> Equal <b>Value:</b> Moderate-Severe



Section: Mitral Valve Disease

Parent: Pre-Procedure Echocardiogram Findings

<b>Element:</b> 13737	Effective Regurgitant Orifice Area	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the effective regurgitant orifice area (EROA), in cm2.	<b>Code:</b> 112000001437
<b>Target Value:</b>	The highest value between 12 months prior to the procedure and start of the procedure	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> VDMitEOA
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TMVR, TMVrpr)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> PQ
		<b>Precision:</b> 2,1
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> cm2
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 0.1 - 5.0 cm2
		<b>Valid Range:</b> 0.1 - 5.0 cm2
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
<b>Element:</b> 13704	Mitral Valve Disease	
<b>Operator:</b>	Equal	
<b>Value:</b>	Yes	
----- AND -----		
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type	
<b>Operator:</b>	Equal	
<b>Value:</b>	TMVR	
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type	
<b>Operator:</b>	Equal	
<b>Value:</b>	TMVr	

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

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

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



Section: Mitral Valve Disease

Parent: Pre-Procedure Echocardiogram Findings

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



Section: Mitral Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

<b>Element:</b> 13490	Mitral Valve Disease Etiology	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the etiology of mitral valve disease.	<b>Code:</b> 11851006
<b>Target Value:</b>	Any occurrence between 12 months prior to the procedure and start of the procedure	<b>Code System Name:</b> SNOMED CT
<b>Supporting Definition:</b>	<b>Mitral Valve Disease</b> A disorder characterized by a defect in mitral valve function or structure.	<b>Short Name:</b> MVDEtio
<b>Source:</b>	NCI Thesaurus	<b>Missing Data:</b> Report
<b>Vendor Instruction:</b>	When Mitral Valve Disease Etiology (13490) is Equal to (None) then Transcatheter Valve Therapy Procedure Type (14273) must be not Equal to (TMVR, TMVr)  Cannot select option None with any other option: Functional MR (Secondary), Degenerative MR (Primary), Post Inflammatory, Endocarditis or Other	<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Multiple
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TAVR
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TMVr
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> 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.		11200001276	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.		11200001277	ACC NCDR
Post Inflammatory			11200001441	ACC NCDR
Endocarditis			56819008	SNOMED CT
Other			100000351	ACC NCDR
None			100001231	ACC NCDR



Section: Mitral Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

<b>Element:</b> 13740	Functional Mitral Valve Regurgitation Type	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the type of functional mitral regurgitation.	<b>Code:</b> 112000001276
<b>Target Value:</b>	Any occurrence between 12 months prior to the procedure and start of the procedure	<b>Code System Name:</b> ACC NCDR
<b>Supporting Definition:</b>	<b>Functional Mitral Valve Regurgitation</b> 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. <b>Source:</b>	<b>Short Name:</b> FMRTYPE <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TMVR, TMVrpr) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> CD <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13490 Mitral Valve Disease Etiology <b>Operator:</b> Equal <b>Value:</b> Functional MR (Secondary) ----- AND -----
		<b>Element:</b> 13741 Functional Mitral Valve Regurgitation Type Not Documented <b>Operator:</b> Equal <b>Value:</b> No (or Not Answered) ----- AND -----
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type <b>Operator:</b> Equal <b>Value:</b> TMVr
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type <b>Operator:</b> Equal <b>Value:</b> 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 Dilatation with Normal Left Ventricular Systolic Function			112000001444	ACC NCDR



Section: Mitral Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

<b>Element:</b> 13741	Functional Mitral Valve Regurgitation Type Not Documented	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate whether the type of functional mitral regurgitation was not documented.	<b>Code:</b> 11200001276
<b>Target Value:</b>	N/A	<b>Code System Name:</b> ACC NCDR
<b>Supporting Definition:</b>	<p><b>Functional Mitral Valve Regurgitation</b></p> <p>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.</p> <p><b>Source:</b></p>	<p><b>Short Name:</b> FMRTypE_ND</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TMVR, TMVrpr)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> BL</p> <p><b>Precision:</b></p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p>
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13490 Mitral Valve Disease Etiology
		<b>Operator:</b> Equal
		<b>Value:</b> Functional MR (Secondary)
		----- AND -----
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TMVr
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> 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:** 11200001445

**Code System Name:** ACC NCDR

**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			11200001449	ACC NCDR
Posterior Leaflet			11200001450	ACC NCDR
Bileaflet			11200001446	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 Name:** ACC NCDR  
**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**

**Coding Instruction:** Indicate if there was leaflet flail.

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

**Technical Specification**

**Code:** 11200001447

**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			11200001449	ACC NCDR
Posterior Leaflet			11200001450	ACC NCDR
Bileaflet			11200001446	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 Name:** ACC NCDR

**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	
<b>Code:</b>	11200001451
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	InflamType
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (TMVR, TMVrpr)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b> 13490	Mitral Valve Disease Etiology
<b>Operator:</b>	Equal
<b>Value:</b>	Post Inflammatory
----- AND -----	
<b>Element:</b> 13753	Inflammatory Mitral Valve Disease Type Not Documented
<b>Operator:</b>	Equal
<b>Value:</b>	No (or Not Answered)
----- AND -----	
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	TMVr
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	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			11200001454	ACC NCDR
Idiopathic			11200001453	ACC NCDR
Prior Radiation Therapy			11200001455	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

Coding Instruction: Indicate if the type of inflammatory mitral valve disease was not documented.

Target Value: N/A

Technical Specification

Code: 112000001451

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

**Coding Instruction:** Indicate if there was leaflet tethering.

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

**Technical Specification**

**Code:** 11200001448

**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			11200001449	ACC NCDR
Posterior Leaflet			11200001450	ACC NCDR
Bileaflet			11200001446	ACC NCDR



Section: Mitral Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

<b>Element:</b> 13747	Leaflet Tethering Not Documented	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if leaflet tethering was not documented.	<b>Code:</b> 112000001448
<b>Target Value:</b>	N/A	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> MVDLeafTeth_ND
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TMVR, TMVrpr)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
<b>Parent/Child Validation</b>		
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type	
<b>Operator:</b>	Equal	
<b>Value:</b>	TMVr	
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type	
<b>Operator:</b>	Equal	
<b>Value:</b>	TMVR	

<b>Element:</b> 13749	Mitral Valve Annular Calcification	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if there was mitral annular calcification.	<b>Code:</b> 251002009
<b>Target Value:</b>	Any occurrence between 12 months prior to arrival and start of the first procedure	<b>Code System Name:</b> SNOMED CT
		<b>Short Name:</b> MVDAnnular
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TMVR, TMVrpr)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
<b>Parent/Child Validation</b>		
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type	
<b>Operator:</b>	Equal	
<b>Value:</b>	TMVr	
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type	
<b>Operator:</b>	Equal	
<b>Value:</b>	TMVR	
----- AND -----		
<b>Element:</b> 13750	Mitral Valve Annular Calcification Not Documented	
<b>Operator:</b>	Equal	
<b>Value:</b>	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

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

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

**Coding Instruction:** Indicate the etiology of tricuspid valve disease.

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

**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

**Source:**

**Technical Specification**

**Code:** 46030003  
**Code System Name:** SNOMED CT  
**Short Name:** TVDisEtio  
**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.		11200001509	ACC NCDR
Secondary	Valve structures are normal but other conditions (e.g. myocardial infarction or cardiomyopathy) compromise the valve's ability to function normally.		11200001510	ACC NCDR
Pacemaker Induced			11200001511	ACC NCDR
Other			100000351	ACC NCDR

**Element:** 13318 Tricuspid Valve Regurgitation

**Coding Instruction:** Indicate whether there is evidence of tricuspid valve regurgitation. Enter level of valve function associated with highest risk (i.e., worst performance).  
If there was no documentation of tricuspid valve disease, code none.

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

**Technical Specification**

**Code:** 111287006  
**Code System Name:** SNOMED CT  
**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			11200001910	ACC NCDR
Trace/Trivial			11200001911	ACC NCDR
Mild			11200000380	ACC NCDR
Moderate			11200000381	ACC NCDR
Severe			11200000382	ACC NCDR



Section: Tricuspid Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

<b>Element:</b> 13807      Tricuspid Valve Diastolic Gradient	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate the tricuspid valve diastolic gradient in mm Hg. This can also be called the TV inflow gradient.  <b>Target Value:</b> The highest value between 12 months prior to the procedure and start of the procedure	<b>Code:</b> 11200001512 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> TVDGrad <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> PQ <b>Precision:</b> 2,0 <b>Selection Type:</b> Single <b>Unit of Measure:</b> mm[Hg] <b>Default Value:</b> Null <b>Usual Range:</b> 1 - 15 mm[Hg] <b>Valid Range:</b> 1 - 50 mm[Hg] <b>Data Source:</b> User
<b>Parent/Child Validation</b>	
<b>Element:</b> 14273      Transcatheter Valve Therapy Procedure Type <b>Operator:</b> Equal <b>Value:</b> Tricuspid Valve Procedure ----- AND ----- <b>Element:</b> 13810      Tricuspid Valve Diastolic Gradient Not Documented <b>Operator:</b> Equal <b>Value:</b> No (or Not Answered)	

<b>Element:</b> 13810      Tricuspid Valve Diastolic Gradient Not Documented	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate if the tricuspid valve diastolic gradient was not documented.  <b>Target Value:</b> N/A	<b>Code:</b> 11200001512 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> TVDGradND <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> BL <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
<b>Parent/Child Validation</b>	
<b>Element:</b> 14273      Transcatheter Valve Therapy Procedure Type <b>Operator:</b> Equal <b>Value:</b> Tricuspid Valve Procedure	



Section: Tricuspid Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

<b>Element:</b> 13808	Tricuspid Valve Annulus Size	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the tricuspid valve annulus size in mm. Document the size using end-diastolic, 4 chamber view is preferred (in mm).	<b>Code:</b> 11200001513
<b>Target Value:</b>	The last value between 12 months prior to arrival and start of the first procedure	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> TVAnnulus
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> PQ
		<b>Precision:</b> 2,0
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> mm
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 15 - 60 mm
		<b>Valid Range:</b> 1 - 80 mm
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> Tricuspid Valve Procedure
		----- AND -----
		<b>Element:</b> 13809 Tricuspid Valve Annulus Size Not Documented
		<b>Operator:</b> Equal
		<b>Value:</b> No (or Not Answered)

<b>Element:</b> 13809	Tricuspid Valve Annulus Size Not Documented	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the tricuspid valve annulus size was not documented.	<b>Code:</b> 11200001513
<b>Target Value:</b>	N/A	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> TVAnnulusND
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> Tricuspid Valve Procedure



Section: Tricuspid Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

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

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



Section: Tricuspid Valve Disease Etiology

Parent: Pre-Procedure Echocardiogram Findings

<b>Element:</b> 13813      End Diastolic Basal Right Ventricle Diameter	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate the end-diastolic basal RV diameter, using the 4 chamber view (in cm).	<b>Code:</b> 11200001515
<b>Target Value:</b> The last value between 12 months prior to arrival and start of the first procedure	<b>Code System Name:</b> ACC NCDR
	<b>Short Name:</b> BasalDia
	<b>Missing Data:</b> Report
	<b>Harvested:</b> Yes (TTVP)
	<b>Is Identifier:</b> No
	<b>Is Base Element:</b> Yes
	<b>Is Followup Element:</b> No
	<b>Data Type:</b> PQ
	<b>Precision:</b> 2,1
	<b>Selection Type:</b> Single
	<b>Unit of Measure:</b> cm
	<b>Default Value:</b> Null
	<b>Usual Range:</b> 1.0 - 7.0 cm
	<b>Valid Range:</b> 0.1 - 9.9 cm
	<b>Data Source:</b> User
	<b>Parent/Child Validation</b>
	<b>Element:</b> 14273    Transcatheter Valve Therapy Procedure Type
	<b>Operator:</b> Equal
	<b>Value:</b> Tricuspid Valve Procedure
	----- AND -----
	<b>Element:</b> 13814    End Diastolic Basal Right Ventricle Diameter Not Documented
	<b>Operator:</b> Equal
	<b>Value:</b> No (or Not Answered)

<b>Element:</b> 13814      End Diastolic Basal Right Ventricle Diameter Not Documented	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate if the basal diastolic mid-RV diameter was not documented.	<b>Code:</b> 11200001515
<b>Target Value:</b> N/A	<b>Code System Name:</b> ACC NCDR
	<b>Short Name:</b> BasalDiaND
	<b>Missing Data:</b> Report
	<b>Harvested:</b> Yes (TTVP)
	<b>Is Identifier:</b> No
	<b>Is Base Element:</b> Yes
	<b>Is Followup Element:</b> No
	<b>Data Type:</b> BL
	<b>Precision:</b>
	<b>Selection Type:</b> Single
	<b>Unit of Measure:</b>
	<b>Default Value:</b> Null
	<b>Usual Range:</b>
	<b>Valid Range:</b>
	<b>Data Source:</b> User
	<b>Parent/Child Validation</b>
	<b>Element:</b> 14273    Transcatheter Valve Therapy Procedure Type
	<b>Operator:</b> Equal
	<b>Value:</b> Tricuspid Valve Procedure



Section: Pre-Procedure Dobutamine Challenge

Parent: Presentation and Evaluation

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

Parent: Presentation and Evaluation

<b>Element:</b> 13321	Aortic Stenosis Type	<b>Technical Specification</b>
<b>Coding Instruction:</b>	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 $\leq$ 1.0 cm <sup>2</sup> and Vmax $>$ 4 m/sec at any flow rate.	<b>Code:</b> 11200002013 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> ASType <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TAVR) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> CD <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
<b>Target Value:</b>	Any occurrence between 12 months prior to arrival and start of the first procedure	
<b>Supporting Definition:</b>	<b>Dobutamine Stress Echocardiography Findings</b> The results or findings of dobutamine stress echocardiogram. <b>Source:</b>	
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13319 Dobutamine Challenge Performed <b>Operator:</b> Equal <b>Value:</b> Yes ----- AND ----- <b>Element:</b> 13325 Aortic Stenosis Type Not Documented <b>Operator:</b> Equal <b>Value:</b> 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			11200001194	ACC NCDR
Pseudo-Severe Aortic Stenosis			11200001195	ACC NCDR

<b>Element:</b> 13325	Aortic Stenosis Type Not Documented	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the type of aortic stenosis is not documented on dobutamine challenge.	<b>Code:</b> 11200002013 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> ASTypeND <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TAVR) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> BL <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
<b>Target Value:</b>	N/A	
<b>Supporting Definition:</b>	<b>Dobutamine Stress Echocardiography Findings</b> The results or findings of dobutamine stress echocardiogram. <b>Source:</b>	
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13319 Dobutamine Challenge Performed <b>Operator:</b> Equal <b>Value:</b> Yes



Section: Procedure Information

Parent: Lab Visit

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

<b>Element:</b> 7066	Concomitant Procedures Performed Type	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the type of procedure performed in conjunction with the TVT procedure.	<b>Code:</b> 100013075
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> ACC NCDR
	<b>Note(s):</b> 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.	<b>Short Name:</b> ConcomProcType
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Multiple (Dynamic List)
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 7065 Concomitant Procedures Performed
		<b>Operator:</b> Equal
		<b>Value:</b> 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 Procedure Type Not Listed			100001272	ACC NCDR
PCI			10001424810	ACC NCDR
Permanent Pacemaker			415070008	SNOMED CT
Balloon Mitral Valvuloplasty			449397007	SNOMED CT
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).		11200001951	ACC NCDR
			11200001952	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		11200001953	ACC NCDR



Section: Procedure Information

Parent: Lab Visit

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

<b>Element:</b> 13499	Heart Team Reason for Procedure
<b>Coding Instruction:</b>	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.
<b>Target Value:</b>	The value on current procedure

Technical Specification	
<b>Code:</b>	11200001281
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	OperatorReason
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (BDS, TAVR, TMVR, TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User

Parent/Child Validation	
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	TMVR
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	Tricuspid Valve Procedure
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	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			11200001282	ACC NCDR
High Risk			11200001283	ACC NCDR
Intermediate Risk			11200001284	ACC NCDR
Low Risk			11200001285	ACC NCDR

<b>Element:</b> 13504	Heart Team Evaluation of Suitability for Surgical Replacement
<b>Coding Instruction:</b>	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.
<b>Target Value:</b>	The value on current procedure

Technical Specification	
<b>Code:</b>	11200001291
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	EvalAVRSuit
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (TAVR, TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	BL
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User

Parent/Child Validation	
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	TAVR
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	Tricuspid Valve Procedure



Section: Procedure Information

Parent: Lab Visit

Element: 12871	Procedure Location	Technical Specification
<b>Coding Instruction:</b>	Indicate the location where the procedure was performed.	<b>Code:</b> 112000000623
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> ACC NCDR
<b>Supporting Definition:</b>	<b>Procedure Location</b> The area of the healthcare facility where the procedure was performed.	<b>Short Name:</b> ProcedureLocation
<b>Source:</b>		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> 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
<b>Coding Instruction:</b> Indicate the type of anesthesia used for the procedure.		<b>Code:</b> 399248000
<b>Target Value:</b> The highest value on current procedure		<b>Code System Name:</b> SNOMED CT
<b>Supporting Definition: Anesthesia</b>		<b>Short Name:</b> 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.		<b>Missing Data:</b> Report
<b>Source:</b> Anesthesia Quality Institute (2018). 2018 AQI NACOR data element conceptual definition. Retrieved from <a href="http://www.aqihq.org/files/AQI_NACOR_DATA_ELEMENT_DEFINITIONS_v3%202018_FINAL.pdf">http://www.aqihq.org/files/AQI_NACOR_DATA_ELEMENT_DEFINITIONS_v3%202018_FINAL.pdf</a>		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> 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 <a href="http://www.asahq.org">www.asahq.org</a> .	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

<b>Element:</b> 13505	Procedure Aborted
<b>Coding Instruction:</b>	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.  For mitral leaflet clip procedures, a procedure is considered aborted when the steerable guide cath was never introduced into the patient.
<b>Target Value:</b>	The value on current procedure

Technical Specification	
<b>Code:</b>	112000000515
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	TVTProcedureAbort
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	BL
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User



Section: Procedure Information

Parent: Lab Visit

<b>Element:</b> 13506	Reason for Aborting Procedure	<b>Technical Specification</b>	
<b>Coding Instruction:</b>	Indicate the reason why the procedure was canceled or aborted.	<b>Code:</b>	11200001292
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b>	ACC NCDR
		<b>Short Name:</b>	ProcedureAbortReason
		<b>Missing Data:</b>	Report
		<b>Harvested:</b>	Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b>	No
		<b>Is Base Element:</b>	Yes
		<b>Is Followup Element:</b>	No
		<b>Data Type:</b>	CD
		<b>Precision:</b>	
		<b>Selection Type:</b>	Single
		<b>Unit of Measure:</b>	
		<b>Default Value:</b>	Null
		<b>Usual Range:</b>	
		<b>Valid Range:</b>	
		<b>Data Source:</b>	User
		<b>Parent/Child Validation</b>	
		<b>Element:</b> 13505	Procedure Aborted
		<b>Operator:</b>	Equal
		<b>Value:</b>	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.		11200001460	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.		11200001461	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.		11200001462	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.		11200001463	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.		11200001464	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.		11200001465	ACC NCDR
Transseptal Access Related	The procedure was aborted because of difficulties crossing the septum.		11200001466	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.		11200001467	ACC NCDR
Other			100000351	ACC NCDR



Section: Procedure Information

Parent: Lab Visit

<b>Element:</b> 13757	Procedure Aborted Action	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the reason or action taken as a result of the aborted TVT procedure.	<b>Code:</b> 11200001468
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> ProcedureAbortAction
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13505 Procedure Aborted
		<b>Operator:</b> Equal
		<b>Value:</b> 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			11200001327	ACC NCDR
Scheduled Open Heart Surgery			11200001473	ACC NCDR
Rescheduled Transcatheter Procedure			11200001470	ACC NCDR
Converted to Clinical Trial			11200001472	ACC NCDR
Balloon Valvuloplasty			11200001469	ACC NCDR
Converted to Medical Therapy			11200001471	ACC NCDR
Other			100000351	ACC NCDR

<b>Element:</b> 13542	Conversion to Open Heart Surgery	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if conversion to open heart surgical access was required.	<b>Code:</b> 11200001327
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> ConvSurgAccess
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User



Section: Procedure Information

Parent: Lab Visit

<b>Element:</b> 13543	Reason for Conversion to Open Heart Surgery	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the reason for conversion to open heart surgical access.	<b>Code:</b> 11200001327
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> ConvSurgAccessReason
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Multiple
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13542 Conversion to Open Heart Surgery
		<b>Operator:</b> Equal
		<b>Value:</b> 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			11200001328	ACC NCDR
Valve Dislodged to Left Ventricle			11200001329	ACC NCDR
Annulus Rupture			11200001331	ACC NCDR
Ventricular Rupture			11200001330	ACC NCDR
Aortic Dissection			308546005	SNOMED CT
Coronary Occlusion			63739005	SNOMED CT
Access Related			11200001460	ACC NCDR
Cardiac Tamponade			35304003	SNOMED CT
Inability to Position Device			11200001479	ACC NCDR
Device Embolization			11200001324	ACC NCDR
Valve Injury			762610001	SNOMED CT
Other			100000351	ACC NCDR

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



Section: Procedure Information

Parent: Lab Visit

<b>Element:</b> 7423	Mechanical Ventricular Support Device	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the mechanical ventricular support device used.	<b>Code:</b> 100001278
	<b>Note(s):</b> 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.	<b>Code System Name:</b> ACC NCDR
<b>Target Value:</b>	Any occurrence on current procedure	<b>Short Name:</b> MVSupportDevice
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single (Dynamic List)
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 7422 Mechanical Ventricular Support
		<b>Operator:</b> Equal
		<b>Value:</b> 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



Section: Procedure Information

Parent: Lab Visit

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

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



Section: Procedure Information

Parent: Lab Visit

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

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



Section: Procedure Information

Parent: Lab Visit

<b>Element:</b> 13525	Delivery System Successfully Removed	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the delivery system was successful removed.	<b>Code:</b> 11200001312
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> DeliveryRemoved
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
<b>Parent/Child Validation</b>		
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type	
<b>Operator:</b>	Equal	
<b>Value:</b>	TMVR	
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type	
<b>Operator:</b>	Equal	
<b>Value:</b>	TAVR	
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type	
<b>Operator:</b>	Equal	
<b>Value:</b>	Tricuspid Valve Procedure	

<b>Element:</b> 13644	Positive Inotropes Administered	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if positive inotropes was administered.	<b>Code:</b> 11200001358
	For patients requiring IV inotropic support, indicate positive inotropes only.	<b>Code System Name:</b> ACC NCDR
<b>Target Value:</b>	Any occurrence between start of procedure and end of procedure	<b>Short Name:</b> ProInotropesAdmin
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> 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

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

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

<b>Element:</b> 14477	TVT Operator Middle Name	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the middle name of operator.	<b>Code:</b> 112000001955
	<b>Note(s):</b> 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.	<b>Code System Name:</b> ACC NCDR
<b>Target Value:</b>	The value on current procedure	<b>Short Name:</b> TVT_Oper_MidName
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> MN
		<b>Precision:</b> 50
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User



Section: Operator Information

Parent: Procedure Information

Element: 14479		TVT Operator NPI	Technical Specification
<b>Coding Instruction:</b>	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.		<b>Code:</b> 112000001955
<b>Target Value:</b>	The value on current procedure		<b>Code System Name:</b> ACC NCDR
			<b>Short Name:</b> TVT_Oper_NPI
			<b>Missing Data:</b> Report
			<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
			<b>Is Identifier:</b> No
			<b>Is Base Element:</b> Yes
			<b>Is Followup Element:</b> No
			<b>Data Type:</b> NUM
			<b>Precision:</b> 10
			<b>Selection Type:</b> Single
			<b>Unit of Measure:</b>
			<b>Default Value:</b> Null
			<b>Usual Range:</b>
			<b>Valid Range:</b>
			<b>Data Source:</b> User



Section: Radiation and Contrast

Parent: Procedure Information

Element: 14278	Dose Area Product	Technical Specification
<b>Coding Instruction:</b>	Indicate the total fluoroscopy dose to the nearest integer. The value recorded should include the total dose for the lab visit.	<b>Code:</b> 10000994
<b>Target Value:</b>	The total between start of current procedure and end of current procedure	<b>Code System Name:</b> ACC NCDR
<b>Supporting Definition: Dose Area Product</b>	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).  <b>Source:</b> Miller DL, et al. Radiation doses in interventional radiology procedures. (J Vasc Interv Radiol 2003; 14:711-727.)	<b>Short Name:</b> FluoroDoseDAP2 <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> PQ <b>Precision:</b> 7,0 <b>Selection Type:</b> Single <b>Unit of Measure:</b> Gy-cm <sup>2</sup> , dGy-cm <sup>2</sup> , cGy-cm <sup>2</sup> , mGy-cm <sup>2</sup> , μGy-M <sup>2</sup> <b>Default Value:</b> Null <b>Usual Range:</b> 1 - 700 Gy-cm <sup>2</sup> 10 - 7,000 dGy-cm <sup>2</sup> 100 - 70,000 cGy-cm <sup>2</sup> 100 - 70,000 μGy-M <sup>2</sup> 1,000 - 700,000 mGy-cm <sup>2</sup> <b>Valid Range:</b> 1 - 5,000 Gy-cm <sup>2</sup> 10 - 50,000 dGy-cm <sup>2</sup> 100 - 500,000 cGy-cm <sup>2</sup> 100 - 500,000 μGy-M <sup>2</sup> 1,000 - 5,000,000 mGy-cm <sup>2</sup> <b>Data Source:</b> User

Element: 7210	Cumulative Air Kerma	Technical Specification
<b>Coding Instruction:</b>	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.	<b>Code:</b> 228850003
<b>Target Value:</b>	The total between start of current procedure and end of current procedure	<b>Code System Name:</b> SNOMED CT
<b>Supporting Definition: Cumulative (Reference) Air kerma</b>	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).  <b>Source:</b> Miller DL, et al. Radiation doses in interventional radiology procedures. (J Vasc Interv Radiol 2003;14:711-727.)	<b>Short Name:</b> FluoroDoseKerm <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> PQ <b>Precision:</b> 5,0 <b>Selection Type:</b> Single <b>Unit of Measure:</b> mGy, Gy <b>Default Value:</b> Null <b>Usual Range:</b> 1 - 10 Gy 1 - 10,000 mGy <b>Valid Range:</b> 1 - 50 Gy 1 - 50,000 mGy <b>Data Source:</b> User



Section: Radiation and Contrast

Parent: Procedure Information

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

Element: 7215	Contrast Volume	Technical Specification
<b>Coding Instruction:</b>	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.	<b>Code:</b> 80242-1
<b>Target Value:</b>	The total between start of current procedure and end of current procedure	<b>Code System Name:</b> LOINC
		<b>Short Name:</b> ContrastVol
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> PQ
		<b>Precision:</b> 3,0
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> mL
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 5 - 300 mL
		<b>Valid Range:</b> 0 - 999 mL
		<b>Data Source:</b> User



Section: Post Implant Mitral Valve Data

Parent: Procedure Information

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

<b>Element:</b> 13762	Mitral Valve Mean Gradient	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the mean gradient (in mm Hg) across the mitral valve.	<b>Code:</b> 112000001191
<b>Target Value:</b>	The last value between the implant and the end of current procedure	<b>Code System Name:</b> ACC NCDR
<b>Supporting Definition:</b>	<b>Mitral Valve Mean Gradient</b> The average gradient across the mitral valve occurring during the entire systole.	<b>Short Name:</b> MVR_Post_MeanMVGrad
	<b>Source:</b> Baumgartner, H. et. al (2009). Echocardiographic assessment of valve stenosis: EAE/ASE recommendations for clinical practice.	<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TMVR, TMVrpr)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> PQ
		<b>Precision:</b> 3,0
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> mm[Hg]
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 5 - 50 mm[Hg]
		<b>Valid Range:</b> 0 - 150 mm[Hg]
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TMVr
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TMVR



Section: TAVR

Parent: Procedure Information

<b>Element:</b> 13498	Primary Transcatheter Aortic Valve Replacement Procedure Indication	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the primary indication for the transcatheter aortic valve replacement. If more than one indication is present, choose the most significant.	<b>Code:</b> 11200000482
<b>Target Value:</b>	The highest value between 2 months prior to current procedure and current procedure	<b>Code System Name:</b> ACC NCDR
<b>Vendor Instruction:</b>	When Transcatheter Valve Therapy Procedure Type (14273) is Equal to (TAVR) then Primary Transcatheter Aortic Valve Replacement Procedure Indication (13498) cannot be Null	<b>Short Name:</b> PrimTAVRProclnd
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> 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

<b>Element:</b> 13500	Valve In Valve Procedure	<b>Technical Specification</b>
<b>Coding Instruction:</b>	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.	<b>Code:</b> 11200001286
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> ACC NCDR
<b>Supporting Definition:</b> <b>Valve in Valve Procedure</b>	A procedure where a prosthetic valve is placed in a prosthetic valve that was previously implanted. <b>Source:</b>	<b>Short Name:</b> ValveInValve
<b>Vendor Instruction:</b>	Valve In Valve Procedure (13500) must be (Yes) when Procedure History Name (12905) is (AV Replacement Surgery OR AV Replacement -Transcatheter) and Procedure History Occurrence (14268) is (Yes)  When Transcatheter Valve Therapy Procedure Type (14273) is Equal to (TAVR) then Valve In Valve Procedure (13500) cannot be Null	<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TAVR



Section: TAVR

Parent: Procedure Information

<b>Element:</b> 13501	Bioprosthetic Valve Fracture Attempted	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if bioprosthetic valve fracture (BVF) with high pressure balloon dilatation 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.	<b>Code:</b> 11200001287 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> BVFAttempt <b>Missing Data:</b> Report <b>Harvested:</b> Yes (BDS, TAVR) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> BL <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
<b>Target Value:</b>	The value on current procedure	<b>Parent/Child Validation</b>
<b>Supporting Definition:</b>	<b>Bioprosthetic Valve Fracture</b> 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. <b>Source:</b> STS/ACC TVT Registry	<b>Element:</b> 13500 Valve In Valve Procedure <b>Operator:</b> Equal <b>Value:</b> Yes

<b>Element:</b> 13502	Bioprosthetic Valve Fracture Timing	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the timing of the bioprosthetic valve fracture.  Note: If BVF was attempted both pre and post valve implant, code both.	<b>Code:</b> 11200001287 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> BVFTiming <b>Missing Data:</b> Report <b>Harvested:</b> Yes (BDS, TAVR) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> CD <b>Precision:</b> <b>Selection Type:</b> Multiple <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
<b>Target Value:</b>	The value on current procedure	<b>Parent/Child Validation</b>
		<b>Element:</b> 13501 Bioprosthetic Valve Fracture Attempted <b>Operator:</b> Equal <b>Value:</b> Yes

Timing - 1.3.6.1.4.1.19376.1.4.1.6.5.729

Selection	Definition	Source	Code	Code System Name
Pre Implant			11200001912	ACC NCDR
Post Implant			11200001913	ACC NCDR



**Section: TAVR** **Parent: Procedure Information**

<b>Element:</b> 13503	Valve Observed to be Fractured	<b>Technical Specification</b>
<b>Coding Instruction:</b>	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.	<b>Code:</b> 11200001290 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> ValveFractured <b>Missing Data:</b> Report <b>Harvested:</b> Yes (BDS, TAVR) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> BL <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
<b>Target Value:</b>	The value on current procedure	<b>Parent/Child Validation</b>
		<b>Element:</b> 13501 Bioprosthetic Valve Fracture Attempted <b>Operator:</b> Equal <b>Value:</b> Yes

<b>Element:</b> 13507	Valve Sheath Access Site	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the access site for the valve sheath.	<b>Code:</b> 11200001293 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> TVTAccessSite <b>Missing Data:</b> Report <b>Harvested:</b> Yes (BDS, TAVR) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> CD <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
<b>Target Value:</b>	The value on current procedure	<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type <b>Operator:</b> Equal <b>Value:</b> 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			11200001957	ACC NCDR
Femoral Artery			7657000	SNOMED CT
Iliac			112000000893	ACC NCDR
Subclavian Artery			36765005	SNOMED CT
Transapical			11200001295	ACC NCDR
Transcaval			11200001299	ACC NCDR
Transseptal via Femoral Vein			11200001296	ACC NCDR
Other			100000351	ACC NCDR



Section: TAVR

Parent: Procedure Information

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

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



Section: TAVR

Parent: Procedure Information

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

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



Section: TAVR

Parent: Procedure Information

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

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



**Section: TAVR Devices** **Parent: TAVR**

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

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



Section: TAVR Devices

Parent: TAVR

<b>Element:</b> 14532	Transcatheter Aortic Valve Replacement Device Diameter	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the transcatheter aortic valve replacement device diameter (in mm).	<b>Code:</b> 11200001805
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> TAVRDeviceDia
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> PQ
		<b>Precision:</b> 3,0
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> mm
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 10 - 36 mm
		<b>Valid Range:</b> 5 - 100 mm
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14485 Transcatheter Aortic Valve Replacement Device ID
		<b>Operator:</b>
		<b>Value:</b> Any Value

<b>Element:</b> 13534	Device Capture and Repositioning Performed	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if device capture and repositioning was performing during the procedure.	<b>Code:</b> 11200001318
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> TVTDeviceRepositioning
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13535 Device Capture and Repositioning Performed Not Applicable
		<b>Operator:</b> Equal
		<b>Value:</b> No (or Not Answered)
		----- AND -----
		<b>Element:</b> 13524 Transcatheter Aortic Valve Replacement Device Counter
		<b>Operator:</b>
		<b>Value:</b> 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

<b>Element:</b> 13535      Device Capture and Repositioning Performed Not Applicable	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate if performing a device capture and repositioning was not applicable.	<b>Code:</b> 63653004
<b>Target Value:</b> N/A	<b>Code System Name:</b> SNOMED CT
	<b>Short Name:</b> TVTDeviceRepositioningNA
	<b>Missing Data:</b> Report
	<b>Harvested:</b> Yes (TAVR)
	<b>Is Identifier:</b> No
	<b>Is Base Element:</b> Yes
	<b>Is Followup Element:</b> No
	<b>Data Type:</b> BL
	<b>Precision:</b>
	<b>Selection Type:</b> Single
	<b>Unit of Measure:</b>
	<b>Default Value:</b> Null
	<b>Usual Range:</b>
	<b>Valid Range:</b>
	<b>Data Source:</b> User
	<b>Parent/Child Validation</b>
	<b>Element:</b> 14273      Transcatheter Valve Therapy Procedure Type
	<b>Operator:</b> Equal
	<b>Value:</b> TAVR
	----- AND -----
	<b>Element:</b> 13524      Transcatheter Aortic Valve Replacement Device Counter
	<b>Operator:</b>
	<b>Value:</b> Any Value

<b>Element:</b> 13536      Transcatheter Aortic Valve Replacement Device Implanted Successfully	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate if there is correct positioning of a single prosthetic heart valve in the proper anatomical location.	<b>Code:</b> 11200001805
<b>Target Value:</b> The value on current procedure	<b>Code System Name:</b> ACC NCDR
	<b>Short Name:</b> TAVRDeviceImplantSuccessful
	<b>Missing Data:</b> Report
	<b>Harvested:</b> Yes (BDS, TAVR)
	<b>Is Identifier:</b> No
	<b>Is Base Element:</b> Yes
	<b>Is Followup Element:</b> No
	<b>Data Type:</b> BL
	<b>Precision:</b>
	<b>Selection Type:</b> Single
	<b>Unit of Measure:</b>
	<b>Default Value:</b> Null
	<b>Usual Range:</b>
	<b>Valid Range:</b>
	<b>Data Source:</b> User
	<b>Parent/Child Validation</b>
	<b>Element:</b> 13524      Transcatheter Aortic Valve Replacement Device Counter
	<b>Operator:</b>
	<b>Value:</b> Any Value



Section: TAVR Devices

Parent: TAVR

<b>Element:</b> 13539	Reason Transcatheter Aortic Valve Replacement Device Not Implanted Successfully	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the reason the device was not implanted successfully.	<b>Code:</b> 112000002014
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> TAVR_Unsuccessful
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13536 Transcatheter Aortic Valve Replacement Device Implanted Successfully
		<b>Operator:</b> Equal
		<b>Value:</b> 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

<b>Element:</b> 14286	Transcatheter Aortic Valve Replacement Device Serial Number	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the device transcatheter aortic valve replacement device serial number.	<b>Code:</b> 112000001805
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> TAVRDeviceSN
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> ST
		<b>Precision:</b> 30
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13536 Transcatheter Aortic Valve Replacement Device Implanted Successfully
		<b>Operator:</b> Equal
		<b>Value:</b> Yes



Section: TAVR Devices

Parent: TAVR

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



Section: TMVr

Parent: Procedure Information

<b>Element:</b> 13792	Mitral Leaflet Clip Procedure Indication	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the indication(s) for the mitral leaflet clip procedure.	<b>Code:</b> 11200000482
<b>Target Value:</b>	The last value on current procedure	<b>Code System Name:</b> ACC NCDR
<b>Vendor Instruction:</b>	When Transcatheter Valve Therapy Procedure Type (14273) is Equal to (TMVr) then Mitral Leaflet Clip Procedure Indication (13792) cannot be Null	<b>Short Name:</b> MRRIndication
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TMVrpr)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Multiple
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> 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

<b>Element:</b> 13794	Guiding Catheter Access Site	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the leaflet clip guiding catheter access site.	<b>Code:</b> 11200001495
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> LeafAccess
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TMVrpr)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> 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

<b>Element:</b> 13795	Steerable Guide Cath Device ID	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the steerable guide cath device ID utilized.	<b>Code:</b> 11200001496
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> SGCDDeviceID
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TMVrpr)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single (Dynamic List)
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TMVr



Section: TMVr

Parent: Procedure Information

**Element:** 13796      Steerable Guide Catheter Serial Number

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

**Target Value:** The value on current procedure

**Technical Specification**

**Code:** 112000001496

**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**

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

<b>Element:</b> 13797	Mitral Repair Device ID	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate all mitral repair device IDs utilized.	<b>Code:</b> 11200002005
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> MRepairDeviceID
		<b>Missing Data:</b> Illegal
		<b>Harvested:</b> Yes (BDS, TMVrpr)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single (Dynamic List)
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13533 Mitral Repair Device Counter
		<b>Operator:</b>
		<b>Value:</b> Any Value



Section: Mitral Leaflet Devices

Parent: TMVr

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

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



Section: Mitral Leaflet Devices

Parent: TMVr

**Element:** 13800 Mitral Valve Repair Location

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

**Target Value:** The value on current procedure

**Technical Specification**

**Code:** 112000002050  
**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

**Coding Instruction:** Indicate if the mitral repair device was successfully deployed.

**Target Value:** The value on current procedure

**Technical Specification**

**Code:** 112000002015  
**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

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

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



Section: TMVR

Parent: Procedure Information

<b>Element:</b> 13754	Transcatheter Mitral Valve Replacement Type	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the transcatheter mitral valve replacement procedure type.	<b>Code:</b> 11200001458
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> ACC NCDR
<b>Vendor Instruction:</b>	When Transcatheter Valve Therapy Procedure Type (14273) is Equal to (TMVR) then Transcatheter Mitral Valve Replacement Type (13754) cannot be Null	<b>Short Name:</b> 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)	<b>Missing Data:</b> Report
	AND	<b>Harvested:</b> Yes (BDS, TMVR)
	Mitral Valve Transcatheter Intervention Type (14261) is (Valve in Native Value Procedure OR Valve in Valve Procedure)	<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> 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			11200001456	ACC NCDR
Valve-in-Valve			11200001286	ACC NCDR
Valve-in-Ring			11200001938	ACC NCDR

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



Section: TMVR

Parent: Procedure Information

<b>Element:</b> 14480	TMVR Bioprosthetic Valve Fracture Attempted	<b>Technical Specification</b>
<b>Coding Instruction:</b>	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.  <b>Target Value:</b> The value on current procedure  <b>Supporting Definition: Bioprosthetic Valve Fracture</b>  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.  <b>Source:</b> STS/ACC TVT Registry	<b>Code:</b> 11200001287 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> TMVR_BVFAttempt <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TMVR) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> BL <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13754 Transcatheter Mitral Valve Replacement Type <b>Operator:</b> Equal <b>Value:</b> Valve-in-Valve <b>Element:</b> 13754 Transcatheter Mitral Valve Replacement Type <b>Operator:</b> Equal <b>Value:</b> Valve-in-Ring

<b>Element:</b> 14481	TMVR Bioprosthetic Valve Fracture Timing	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the timing of the bioprosthetic valve fracture.  Note: If BVF was attempted both pre and post valve implant, code both.  <b>Target Value:</b> The value on current procedure	<b>Code:</b> 11200001287 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> TMVR_BVFTiming <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TMVR) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> CD <b>Precision:</b> <b>Selection Type:</b> Multiple <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14480 TMVR Bioprosthetic Valve Fracture Attempted <b>Operator:</b> Equal <b>Value:</b> Yes

Timing - 1.3.6.1.4.1.19376.1.4.1.6.5.729

Selection	Definition	Source	Code	Code System Name
Pre Implant			11200001912	ACC NCDR
Post Implant			11200001913	ACC NCDR



Section: TMVR

Parent: Procedure Information

<b>Element:</b> 14482	TMVR Valve Observed to be Fractured	<b>Technical Specification</b>
<b>Coding Instruction:</b>	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.	<b>Code:</b> 112000001290 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> TMVR_ValveFractured <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TMVR) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> BL <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
<b>Target Value:</b>	The value on current procedure	<b>Parent/Child Validation</b>
		<b>Element:</b> 14480 TMVR Bioprosthetic Valve Fracture Attempted <b>Operator:</b> Equal <b>Value:</b> Yes

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

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

<b>Element:</b> 13758	Mitral Valve Replacement - Procedure Access Site	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the access site used to perform the mitral procedure.	<b>Code:</b> 11200001474
<b>Target Value:</b>	The last value on current procedure	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> MVAccessSite
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TMVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> 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			11200001296	ACC NCDR
Transapical			11200001295	ACC NCDR
Direct Left Atrium			11200001475	ACC NCDR
Other			100000351	ACC NCDR

<b>Element:</b> 13759	Preimplant Balloon Inflation Performed	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if pre-implant balloon inflation was performed.	<b>Code:</b> 11200001476
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> MVR_MVPreBalloon
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TMVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TMVR



Section: TMVR

Parent: Procedure Information

<b>Element:</b> 13760      Significant Hemodynamic Deterioration After Inflation	<b>Technical Specification</b>
<b>Coding Instruction:</b> 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.	<b>Code:</b> 112000001477 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> MVR_MVHemDet <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TMVR) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> BL <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
<b>Target Value:</b> The value on current procedure	<b>Parent/Child Validation</b>
	<b>Element:</b> 13759      Preimplant Balloon Inflation Performed <b>Operator:</b> Equal <b>Value:</b> Yes

<b>Element:</b> 13761      Post Implant Balloon Inflation Performed	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate if post-implant balloon inflation was performed.	<b>Code:</b> 112000001478 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> MVR_MVPostBalloon <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TMVR) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> BL <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
<b>Target Value:</b> The value on current procedure	<b>Parent/Child Validation</b>
	<b>Element:</b> 14273      Transcatheter Valve Therapy Procedure Type <b>Operator:</b> Equal <b>Value:</b> TMVR



**Section: TMVR Devices** **Parent: TMVR**

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

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



Section: TMVR Devices

Parent: TMVR

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

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



Section: TMVR Devices

Parent: TMVR

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

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



Section: TMVR Devices

Parent: TMVR

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

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

<b>Element:</b> 13816	Tricuspid Valve Replacement Location	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the location of the tricuspid valve replacement.	<b>Code:</b> 25236004
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> SNOMED CT
<b>Vendor Instruction:</b>	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)	<b>Short Name:</b> TVLocation
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13815 Tricuspid Valve Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> 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

<b>Element:</b> 13817	Tricuspid Valve Repair or Replacement Procedure Indication	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the primary procedure indication for the tricuspid procedure.	<b>Code:</b> 11200000482
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> ACC NCDR
<b>Vendor Instruction:</b>	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	<b>Short Name:</b> TVProcedureInd
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> 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			11200001829	ACC NCDR

<b>Element:</b> 13838	Tricuspid Valve Procedure Access Site	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the access site used to perform the procedure.	<b>Code:</b> 11200001474
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> TVAccess
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> 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

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

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

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



Section: TTVP Pre-Implant

Parent: TTVP

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

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



Section: TTVP Pre-Implant

Parent: TTVP

<b>Element:</b> 13823	Preimplant Inferior Vena Cava Pressure	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the pressure in the inferior vena cava prior to device implant.	<b>Code:</b> 11200001525
<b>Target Value:</b>	The value between start of procedure and prior to the intervention	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> IVCPre
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> PQ
		<b>Precision:</b> 2,0
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> mm[Hg]
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 1 - 10 mm[Hg]
		<b>Valid Range:</b> 0 - 35 mm[Hg]
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13816 Tricuspid Valve Replacement Location
		<b>Operator:</b> Equal
		<b>Value:</b> Inferior Vena Cava
		<b>Element:</b> 13816 Tricuspid Valve Replacement Location
		<b>Operator:</b> Equal
		<b>Value:</b> Inferior and Superior Vena Cava
		----- AND -----
		<b>Element:</b> 13825 Preimplant Inferior Vena Cava Pressure Not Documented
		<b>Operator:</b> Equal
		<b>Value:</b> No (or Not Answered)

<b>Element:</b> 13825	Preimplant Inferior Vena Cava Pressure Not Documented	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the pressure in the inferior vena cava, pre-implant was not documented.	<b>Code:</b> 11200001525
<b>Target Value:</b>	N/A	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> IVCPreND
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13816 Tricuspid Valve Replacement Location
		<b>Operator:</b> Equal
		<b>Value:</b> Inferior Vena Cava
		<b>Element:</b> 13816 Tricuspid Valve Replacement Location
		<b>Operator:</b> Equal
		<b>Value:</b> Inferior and Superior Vena Cava



Section: TTVP Pre-Implant

Parent: TTVP

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

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



Section: TTVP Pre-Implant

Parent: TTVP

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

<b>Element:</b> 13831	Preimplant Right Ventricular Systolic Pressure Not Documented	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the right ventricular systolic pressure, pre-implant was not documented.	<b>Code:</b> 276772001
<b>Target Value:</b>	N/A	<b>Code System Name:</b> SNOMED CT
<b>Supporting Definition:</b>	<b>RV Systolic Pressure</b> The maximum pressure exerted into the systemic arterial circulation during the contraction of the right ventricle of the heart <b>Source:</b> NCI EVS	<b>Short Name:</b> RVSPPreND <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> BL <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type <b>Operator:</b> Equal <b>Value:</b> Tricuspid Valve Procedure



Section: TTVP Pre-Implant

Parent: TTVP

<b>Element:</b> 13834      Preimplant Tricuspid Valve Diastolic Gradient	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate the tricuspid valve diastolic gradient, pre-implant. <b>Target Value:</b> The value between start of procedure and prior to the intervention	<b>Code:</b> 11200001512 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> TVDGradPre <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> PQ <b>Precision:</b> 2,0 <b>Selection Type:</b> Single <b>Unit of Measure:</b> mm[Hg] <b>Default Value:</b> Null <b>Usual Range:</b> 1 - 15 mm[Hg] <b>Valid Range:</b> 1 - 50 mm[Hg] <b>Data Source:</b> User
	<b>Parent/Child Validation</b> <b>Element:</b> 13836      Preimplant Tricuspid Valve Diastolic Gradient Not Documented <b>Operator:</b> Equal <b>Value:</b> No (or Not Answered) ----- AND ----- <b>Element:</b> 14273      Transcatheter Valve Therapy Procedure Type <b>Operator:</b> Equal <b>Value:</b> Tricuspid Valve Procedure

<b>Element:</b> 13836      Preimplant Tricuspid Valve Diastolic Gradient Not Documented	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate if the tricuspid valve diastolic gradient was not documented pre implant. <b>Target Value:</b> N/A	<b>Code:</b> 11200001512 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> TVDGradPreND <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> BL <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
	<b>Parent/Child Validation</b> <b>Element:</b> 14273      Transcatheter Valve Therapy Procedure Type <b>Operator:</b> Equal <b>Value:</b> Tricuspid Valve Procedure



Section: TTVP Post-Implant

Parent: TTVP

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

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



Section: TTVP Post-Implant

Parent: TTVP

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

<b>Element:</b> 13826	Post Implant Inferior Vena Cava Pressure Not Documented	<b>Technical Specification</b>
	<b>Coding Instruction:</b> Indicate the pressure in the inferior vena cava post-implant was not documented.	<b>Code:</b> 112000001525
	<b>Target Value:</b> N/A	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> IVCPPostND
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13816 Tricuspid Valve Replacement Location
		<b>Operator:</b> Equal
		<b>Value:</b> Inferior Vena Cava
		<b>Element:</b> 13816 Tricuspid Valve Replacement Location
		<b>Operator:</b> Equal
		<b>Value:</b> Inferior and Superior Vena Cava



Section: TTVP Post-Implant

Parent: TTVP

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

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



Section: TTVP Post-Implant

Parent: TTVP

<b>Element:</b> 13832	Post Implant Right Ventricular Systolic Pressure	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the right ventricular systolic pressure, post-implant .	<b>Code:</b> 276772001
<b>Target Value:</b>	The last value between the implant and the end of current procedure	<b>Code System Name:</b> SNOMED CT
<b>Supporting Definition:</b>	<b>RV Systolic Pressure</b> The maximum pressure exerted into the systemic arterial circulation during the contraction of the right ventricle of the heart <b>Source:</b> NCI EVS	<b>Short Name:</b> RVSPPost
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> PQ
		<b>Precision:</b> 3,0
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> mm[Hg]
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 10 - 80 mm[Hg]
		<b>Valid Range:</b> 1 - 150 mm[Hg]
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13833 Post Implant Right Ventricular Systolic Pressure Not Documented
		<b>Operator:</b> Equal
		<b>Value:</b> No (or Not Answered)
		----- AND -----
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> Tricuspid Valve Procedure

<b>Element:</b> 13833	Post Implant Right Ventricular Systolic Pressure Not Documented	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the right ventricular systolic pressure, post-implant was not documented.	<b>Code:</b> 276772001
<b>Target Value:</b>	N/A	<b>Code System Name:</b> SNOMED CT
<b>Supporting Definition:</b>	<b>RV Systolic Pressure</b> The maximum pressure exerted into the systemic arterial circulation during the contraction of the right ventricle of the heart <b>Source:</b> NCI EVS	<b>Short Name:</b> RVSPPostND
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> Tricuspid Valve Procedure



Section: TTVP Post-Implant

Parent: TTVP

<b>Element:</b> 13835      Post Implant Tricuspid Valve Diastolic Gradient	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate the tricuspid valve diastolic gradient, post-implant.	<b>Code:</b> 11200001512
<b>Target Value:</b> The last value between the implant and the end of current procedure	<b>Code System Name:</b> ACC NCDR
	<b>Short Name:</b> TVDGradPost
	<b>Missing Data:</b> Report
	<b>Harvested:</b> Yes (TTVP)
	<b>Is Identifier:</b> No
	<b>Is Base Element:</b> Yes
	<b>Is Followup Element:</b> No
	<b>Data Type:</b> PQ
	<b>Precision:</b> 2,0
	<b>Selection Type:</b> Single
	<b>Unit of Measure:</b> mm[Hg]
	<b>Default Value:</b> Null
	<b>Usual Range:</b> 1 - 15 mm[Hg]
	<b>Valid Range:</b> 1 - 50 mm[Hg]
	<b>Data Source:</b> User
	<b>Parent/Child Validation</b>
	<b>Element:</b> 13837      Post Implant Tricuspid Valve Diastolic Gradient Not Documented
	<b>Operator:</b> Equal
	<b>Value:</b> No (or Not Answered)
	----- AND -----
	<b>Element:</b> 14273      Transcatheter Valve Therapy Procedure Type
	<b>Operator:</b> Equal
	<b>Value:</b> Tricuspid Valve Procedure

<b>Element:</b> 13837      Post Implant Tricuspid Valve Diastolic Gradient Not Documented	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate if the tricuspid valve diastolic gradient was not documented post implant.	<b>Code:</b> 11200001512
<b>Target Value:</b> N/A	<b>Code System Name:</b> ACC NCDR
	<b>Short Name:</b> TVDGradPostND
	<b>Missing Data:</b> Report
	<b>Harvested:</b> Yes (TTVP)
	<b>Is Identifier:</b> No
	<b>Is Base Element:</b> Yes
	<b>Is Followup Element:</b> No
	<b>Data Type:</b> BL
	<b>Precision:</b>
	<b>Selection Type:</b> Single
	<b>Unit of Measure:</b>
	<b>Default Value:</b> Null
	<b>Usual Range:</b>
	<b>Valid Range:</b>
	<b>Data Source:</b> User
	<b>Parent/Child Validation</b>
	<b>Element:</b> 14273      Transcatheter Valve Therapy Procedure Type
	<b>Operator:</b> Equal
	<b>Value:</b> Tricuspid Valve Procedure



**Section: TTVP Devices** **Parent: TTVP**

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

<b>Element:</b> 14483	Transcatheter Tricuspid Valve Device ID	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the device ID of the tricuspid valve.	<b>Code:</b> 703201004
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> SNOMED CT
		<b>Short Name:</b> TTVDeviceID
		<b>Missing Data:</b> Illegal
		<b>Harvested:</b> Yes (TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single (Dynamic List)
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13531 Tricuspid Valve Device Counter
		<b>Operator:</b>
		<b>Value:</b> Any Value



Section: TTVP Devices

Parent: TTVP

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

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



Section: TTVP Devices

Parent: TTVP

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

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



Section: TTVP Devices

Parent: TTVP

<b>Element:</b> 13540	Reason Tricuspid Valve Device Not Implanted Successfully	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the reason the device was not implanted successfully.	<b>Code:</b> 112000002014
<b>Target Value:</b>	The value on current procedure	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> TV_Unsuccessful
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13537 Tricuspid Valve Device Implanted Successfully
		<b>Operator:</b> Equal
		<b>Value:</b> 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
<b>Coding Instruction:</b>	Indicate if there were any Intra or Post Procedure Events.	<b>Code:</b> 1000142478
<b>Target Value:</b>	Any occurrence between start of procedure and until next procedure or discharge	<b>Code System Name:</b> ACC NCDR
<b>Vendor Instruction:</b>	When an Intra or Post Procedure Events (12153) are selected then Intra/Post-Procedure Events Occurred (9002) must not be Null  An Intra or Post Procedure - combination Events (12153), Occurred (9002) and Event Date (14275) - may only be entered/selected once	<b>Short Name:</b> ProcEvents <b>Missing Data:</b> Report <b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> CD <b>Precision:</b> <b>Selection Type:</b> Single (Dynamic List) <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> 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 $\geq 3$ 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 $\geq 3$ 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 $\geq 3$ 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 $\geq 3$ 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 $\geq 3$ 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 $\geq 3$ 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 mitral 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.	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



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	<p>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 (&lt;72 hours after the procedure) or spontaneous (&gt;72 hours after the index procedure).</p> <ol style="list-style-type: none"> <li>Peri-procedural MI (&lt;72 h after the index procedure) <ul style="list-style-type: none"> <li>(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</li> <li>(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 (&gt;99th percentile), a further increase in at least 50% post-procedure is required AND the peak value must exceed the previously stated limit.</li> </ul> </li> <li>Spontaneous MI (≥72 h after the index procedure) any one of the following criteria: <ul style="list-style-type: none"> <li>(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: <ul style="list-style-type: none"> <li>-Symptoms of ischemia</li> <li>-ECG changes indicative of new ischemia [new ST-T changes or new left bundle branch block (LBBB)]</li> <li>-New pathological Q-waves in at least two contiguous leads</li> <li>-Imaging evidence of a new loss of viable myocardium or new wall motion abnormality</li> </ul> </li> <li>(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.</li> <li>(c) Pathological findings of an acute myocardial infarction.</li> </ul> </li> </ol>	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
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,	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**

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
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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
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<b>Element:</b> 9002	Intra/Post-Procedure Events Occurred	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate if the specific intra or post procedure event(s) occurred.		<b>Code:</b> 1000142479
<b>Target Value:</b> Any occurrence between start of procedure and until next procedure or discharge		<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> PostProcOccurred
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 12153 Intra or Post Procedure Events
		<b>Operator:</b>
		<b>Value:</b> Any Value



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

Parent: Lab Visit

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



Section: In-Hospital Event Information

Parent: Lab Visit

Element: 14312      Adjudication Event		Technical Specification
<b>Coding Instruction:</b>	Indicate the event being adjudicated.	<b>Code:</b> 11200001816
<b>Target Value:</b>	N/A	<b>Code System Name:</b> ACC NCDR
<b>Vendor Instruction:</b>	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)	<b>Short Name:</b> AJ_AdjudEvent
	An Adjudication - combination Event (14312) and Date (14313) - may only be entered/selected once	<b>Missing Data:</b> Report
	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)	<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single (Dynamic List)
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
Parent/Child Validation		
<b>Element:</b> 12153	Intra or Post Procedure Events	
<b>Operator:</b> Equal		
<b>Value:</b> Stroke - Hemorrhagic		
<b>Element:</b> 12153	Intra or Post Procedure Events	
<b>Operator:</b> Equal		
<b>Value:</b> Stroke - Ischemic		
<b>Element:</b> 12153	Intra or Post Procedure Events	
<b>Operator:</b> Equal		
<b>Value:</b> Stroke - Undetermined		
<b>Element:</b> 12153	Intra or Post Procedure Events	
<b>Operator:</b> Equal		
<b>Value:</b> Transient Ischemic Attack (TIA)		
<b>Element:</b> 12153	Intra or Post Procedure Events	
<b>Operator:</b> Equal		
<b>Value:</b> Reintervention - Mitral Valve		
<b>Element:</b> 12153	Intra or Post Procedure Events	
<b>Operator:</b> Equal		
<b>Value:</b> Reintervention - Tricuspid Valve		
<b>Element:</b> 12153	Intra or Post Procedure Events	
<b>Operator:</b> Equal		
<b>Value:</b> Reintervention - Aortic Valve		
----- AND -----		
<b>Element:</b> 9002	Intra/Post-Procedure Events Occurred	
<b>Operator:</b> Equal		
<b>Value:</b> 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.	11200001835	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	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



Section: In-Hospital Event Information

Parent: Lab Visit

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 $\geq 3$ 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 $\geq 3$ 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 $\geq 3$ 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 $\geq 3$ 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	1000142371	ACC NCDR



Section: In-Hospital Event Information

Parent: Lab Visit

	<p>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:</p> <ol style="list-style-type: none"> <li>1. Hemoglobin drop of <math>\geq 3</math> g/dL;</li> <li>2. Transfusion of whole blood or packed red blood cells;</li> <li>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).</li> </ol>			
Bleeding - Retroperitoneal	<p>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:</p> <ol style="list-style-type: none"> <li>1. Hemoglobin drop of <math>\geq 3</math> g/dL;</li> <li>2. Transfusion of whole blood or packed red blood cells;</li> <li>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).</li> </ol>	95549001	SNOMED CT	
Cardiac Arrest	<p>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.</p>	Data Governance Subcommittee of the NCDR's SQOC	410429000	SNOMED CT
Cardiac Perforation	<p>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:</p> <ol style="list-style-type: none"> <li>1. Echo showing pericardial fluid and signs of tamponade such as right heart compromise, or</li> <li>2. Systemic hypotension due to pericardial fluid compromising cardiac function.</li> </ol>	36191001:123005000=302509004	SNOMED CT	
Cardiac Surgery or Intervention - Other Unplanned	<p>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).</p>	112000001892	ACC NCDR	
Complete Leaflet Clip Detachment	<p>A complete detachment of the leaflet clip from the mitral valve leaflets occurred.</p>	112000001840	ACC NCDR	
Coronary Artery Compression	<p>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.</p>	112000001837	ACC NCDR	
COVID-19 Positive	<p>The patient had a diagnosis of COVID-19, confirmed with a laboratory performed polymerase chain reaction (PCR) test.</p> <p>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.</p> <p>Code no if documentation ONLY included antibody testing (IgG).</p>	112000001982	ACC NCDR	
Delivery System Component Embolization	<p>A component of the delivery system became detached and embolized into the heart or vascular system of the patient.</p>	112000001841	ACC NCDR	
Device Embolization	<p>The device became displaced from its initial implantation site so that it is no longer in its original</p>	112000001324	ACC NCDR	



**Section: In-Hospital Event Information** **Parent: Lab Visit**

	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 one of the following:	Updated Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation Clinical Trials (JACC, 2012, vol 60, No 15)	22298006	SNOMED CT



Section: In-Hospital Event Information

Parent: Lab Visit

-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 dysfunction caused by presumed brain, spinal	Hicks KA, Tcheng JE, Bozkurt B, et al. 2014 ACC/AHA Key Data Elements and Definitions for Cardiovascular Endpoint Events in Clinical Trials: A	230713003	SNOMED CT



Section: In-Hospital Event Information		Parent: Lab Visit		
	cord, or retinal vascular injury as a result of hemorrhage or infarction but with insufficient information to allow categorization as ischemic or hemorrhagic.	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
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 Vascular Surgery or Intervention should be captured.		112000000467	ACC NCDR



Section: In-Hospital Event Information

Parent: Lab Visit

**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:** 11200001816

**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**

**Coding Instruction:** Indicate whether the patient was alive or deceased on the date the adjudication was performed.

**Target Value:** N/A

**Vendor Instruction:** Adjudication Status (14314) as 'Deceased' must be answered only once in the episode.

**Technical Specification**

**Code:** 11200001817

**Code System Name:** ACC NCDR

**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

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

<b>Element:</b> 14462	In Hospital Clinical Comments	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Provide information and details that may assist in assessing the event(s) being adjudicated.	<b>Code:</b> 423016009
<b>Target Value:</b>	N/A	<b>Code System Name:</b> SNOMED CT
		<b>Short Name:</b> AJ_CommentsInHosp
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> ST
		<b>Precision:</b> 1000
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> 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: 11200000125

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

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



Section: Stroke Or TIA

Parent: In-Hospital Event Information

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

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



Section: Stroke Or TIA

Parent: In-Hospital Event Information

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

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

<b>Element:</b> 14350	Brain Imaging Findings	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate the type of deficit found as a result of the neuroimaging study.		<b>Code:</b> 11200001979
<b>Target Value:</b> N/A		<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> BI_Find
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
<b>Parent/Child Validation</b>		
<b>Element:</b> 14320		Brain Imaging Performed
<b>Operator:</b> Equal		
<b>Value:</b> 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

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

**Technical Specification**  
**Code:** 75528-0  
**Code System Name:** LOINC  
**Short Name:** AJ\_DLAЕ  
**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.  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



**Section: Stroke Or TIA** **Parent: In-Hospital Event Information**

Other Discharge Location 100001249 ACC NCDR

<b>Element:</b> 14421	Patient Discharged to Prior Place of Living	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate if the patient was discharged to their prior place of living.		<b>Code:</b> 112000001882
<b>Target Value:</b> N/A		<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> AJ_PriorLiving
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14314 Adjudication Status
		<b>Operator:</b> Equal
		<b>Value:</b> Alive
		----- AND -----
		<b>Element:</b> 14312 Adjudication Event
		<b>Operator:</b> Equal
		<b>Value:</b> Stroke - Hemorrhagic
		<b>Element:</b> 14312 Adjudication Event
		<b>Operator:</b> Equal
		<b>Value:</b> Stroke - Ischemic
		<b>Element:</b> 14312 Adjudication Event
		<b>Operator:</b> Equal
		<b>Value:</b> Stroke - Undetermined
		<b>Element:</b> 14312 Adjudication Event
		<b>Operator:</b> Equal
		<b>Value:</b> Transient Ischemic Attack (TIA)
		----- AND -----
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TAVR
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TMVr
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> 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			11200001866	ACC NCDR



Section: AV Re-Intervention

Parent: In-Hospital Event Information

**Element:** 14354      Aortic Valve Reintervention Type  
**Coding Instruction:** Indicate the type of aortic valve reintervention.  
**Target Value:** N/A

**Technical Specification**  
**Code:** 11200001868  
**Code System Name:** ACC NCDR  
**Short Name:** AJ\_RelntType  
**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			11200001872	ACC NCDR
Surgical Repair			11200001871	ACC NCDR
Transcatheter Replacement			11200001875	ACC NCDR
Balloon Valvuloplasty			11200001469	ACC NCDR
Leaflet Clip Procedure			11200001778	ACC NCDR
Paravalvular Leak Closure			11200001916	ACC NCDR
Other Transcatheter Intervention			11200001873	ACC NCDR



Section: AV Re-Intervention

Parent: In-Hospital Event Information

**Element:** 14355      Aortic Valve Reintervention Primary Indication

**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.

**Target Value:** N/A

**Technical Specification**

**Code:** 11200001825

**Code System Name:** ACC NCDR

**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			11200001324	ACC NCDR
Device Fracture			11200001891	ACC NCDR
Device Migration			370512004	SNOMED CT
Endocarditis			56819008	SNOMED CT
Paravalvular Leak			234184000	SNOMED CT
Device Thrombosis			11200001839	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

**Coding Instruction:** Indicate the highest level of aortic regurgitation prior to the aortic valve reintervention.

**Target Value:** N/A

Technical Specification	
<b>Code:</b>	112000001869
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	AJ_AISev
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (BDS, TAVR)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b>	14355 Aortic Valve Reintervention
	Primary Indication
<b>Operator:</b>	Equal
<b>Value:</b>	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

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

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

**Target Value:** N/A

**Technical Specification**

**Code:** 11200001428

**Code System Name:** ACC NCDR

**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			11200001910	ACC NCDR
Mild			11200000380	ACC NCDR
Moderate			11200000381	ACC NCDR
Severe			11200000382	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	
<b>Code:</b>	11200001433
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	AJ_CenSev
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (TAVR)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b> 14356	Aortic Valve Regurgitation
<b>Operator:</b>	Equal
<b>Value:</b>	Mild
<b>Element:</b> 14356	Aortic Valve Regurgitation
<b>Operator:</b>	Equal
<b>Value:</b>	Moderate
<b>Element:</b> 14356	Aortic Valve Regurgitation
<b>Operator:</b>	Equal
<b>Value:</b>	Severe
<b>Element:</b> 14356	Aortic Valve Regurgitation
<b>Operator:</b>	Equal
<b>Value:</b>	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			11200001910	ACC NCDR
Mild			11200000380	ACC NCDR
Moderate			11200000381	ACC NCDR
Severe			11200000382	ACC NCDR

**Element:** 14359      Aortic Valve Area

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

**Target Value:** N/A

Technical Specification	
<b>Code:</b>	11200001280
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	AJ_AVA
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (TAVR)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	PQ
<b>Precision:</b>	3,2
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	cm2
<b>Default Value:</b>	Null
<b>Usual Range:</b>	0.20 - 4.00 cm2
<b>Valid Range:</b>	0.05 - 5.00 cm2
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b> 14355	Aortic Valve Reintervention
	Primary Indication
<b>Operator:</b>	Equal
<b>Value:</b>	Stenosis



Section: AV Re-Intervention

Parent: In-Hospital Event Information

<b>Element:</b> 14282      Aortic Valve Mean Gradient	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate the aortic valve mean gradient in mm Hg. <b>Target Value:</b> N/A	<b>Code:</b> 112000001398 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> AJ_AVG <b>Missing Data:</b> Report <b>Harvested:</b> Yes (BDS, TAVR) <b>Is Identifier:</b> No <b>Is Base Element:</b> Yes <b>Is Followup Element:</b> No <b>Data Type:</b> PQ <b>Precision:</b> 3,0 <b>Selection Type:</b> Single <b>Unit of Measure:</b> mm[Hg] <b>Default Value:</b> Null <b>Usual Range:</b> 5 - 50 mm[Hg] <b>Valid Range:</b> 0 - 200 mm[Hg] <b>Data Source:</b> User
	<b>Parent/Child Validation</b>
	<b>Element:</b> 14355      Aortic Valve Reintervention Primary Indication <b>Operator:</b> Equal <b>Value:</b> 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

**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.

**Target Value:** N/A

Technical Specification	
<b>Code:</b>	11200001825
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	MVReintInd
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (BDS, TMVR, TMVrpr)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b> 14312	Adjudication Event
<b>Operator:</b>	Equal
<b>Value:</b>	Reintervention - Mitral Valve
----- AND -----	
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	TMVR
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	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			11200001324	ACC NCDR
Device Fracture			11200001891	ACC NCDR
Device Migration			370512004	SNOMED CT
Endocarditis			56819008	SNOMED CT
Paravalvular Leak			234184000	SNOMED CT
Device Thrombosis			11200001839	ACC NCDR
Valve Injury			762610001	SNOMED CT
Other			10000351	ACC NCDR



Section: Tricuspid Valve Re-Intervention

Parent: In-Hospital Event Information

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

<b>Element:</b> 14347	Tricuspid Valve Reintervention Primary Indication	<b>Technical Specification</b>
	<b>Coding Instruction:</b> Indicate the primary indication for the tricuspid valve re-intervention.	<b>Code:</b> 11200001825
	<b>Target Value:</b> N/A	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> AJ_TVInd
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
<b>Parent/Child Validation</b>		
	<b>Element:</b> 14312 Adjudication Event	
	<b>Operator:</b> Equal	
	<b>Value:</b> Reintervention - Tricuspid Valve	
	----- AND -----	
	<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type	
	<b>Operator:</b> Equal	
	<b>Value:</b> 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			11200001324	ACC NCDR
Device Fracture			11200001891	ACC NCDR
Device Migration			370512004	SNOMED CT
Endocarditis			56819008	SNOMED CT
Paravalvular Leak			234184000	SNOMED CT
Device Thrombosis			11200001839	ACC NCDR
Valve Injury			762610001	SNOMED CT
Other			100000351	ACC NCDR



Section: Tricuspid Valve Re-Intervention

Parent: In-Hospital Event Information

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

<b>Element:</b> 13763      Hemoglobin	<b>Technical Specification</b>
<p><b>Coding Instruction:</b> Indicate the hemoglobin (Hgb) value in g/dL.</p> <p><b>Target Value:</b> The lowest value between end of current procedure and discharge</p> <p><b>Supporting Definition:</b> <b>Hemoglobin</b></p> <p>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.</p> <p><b>Source:</b> <a href="http://s.details.loinc.org/LOINC/718-7.html?sections=Simple">http://s.details.loinc.org/LOINC/718-7.html?sections=Simple</a></p>	<p><b>Code:</b> 718-7</p> <p><b>Code System Name:</b> LOINC</p> <p><b>Short Name:</b> PostProcHgb1</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> PQ</p> <p><b>Precision:</b> 4,2</p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b> g/dL</p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b> 5.00 - 20.00 g/dL</p> <p><b>Valid Range:</b> 1.00 - 50.00 g/dL</p> <p><b>Data Source:</b> User</p>
	<b>Parent/Child Validation</b>
	<p><b>Element:</b> 14243      Hemoglobin Not Drawn</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> No (or Not Answered)</p>

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



Section: Post-Procedure 12 Lead

Parent: Post-Procedure Clinical Data

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

<b>Element:</b> 13765	12 Lead Electrocardiogram Findings	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the post procedure 12 lead ECG findings. If more than one ECG is performed, document the findings from any ECG.	<b>Code:</b> 11200001362
<b>Target Value:</b>	Any occurrence between end of current procedure and discharge	<b>Code System Name:</b> ACC NCDR
<b>Vendor Instruction:</b>	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	<b>Short Name:</b> PoP_EKGChange
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Multiple
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13616 12 Lead Electrocardiogram Performed
		<b>Operator:</b> Equal
		<b>Value:</b> 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			11200001391	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

<b>Element:</b> 10060	Creatinine	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the creatinine (Cr) level mg/dL.	<b>Code:</b> 2160-0
<b>Target Value:</b>	The last value on discharge	<b>Code System Name:</b> LOINC
<b>Supporting Definition:</b>	<p><b>Creatinine</b></p> <p>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.</p> <p><b>Source:</b> <a href="http://s.details.loinc.org/LOINC/2160-0.html?sections=Simple">http://s.details.loinc.org/LOINC/2160-0.html?sections=Simple</a></p>	<p><b>Short Name:</b> DCCreatinine</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TAVR, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> PQ</p> <p><b>Precision:</b> 4,2</p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b> mg/dL</p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b> 0.10 - 5.00 mg/dL</p> <p><b>Valid Range:</b> 0.10 - 30.00 mg/dL</p> <p><b>Data Source:</b> User</p>
		<b>Parent/Child Validation</b>
		<p><b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> TAVR</p> <p><b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> Tricuspid Valve Procedure</p> <p>----- AND -----</p> <p><b>Element:</b> 10061 Creatinine Not Drawn</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> No (or Not Answered)</p>

<b>Element:</b> 10061	Creatinine Not Drawn	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if a discharge creatinine level was not drawn.	<b>Code:</b> 2160-0
<b>Target Value:</b>	The last value on discharge	<b>Code System Name:</b> LOINC
		<p><b>Short Name:</b> DCCreatinineND</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TAVR, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> BL</p> <p><b>Precision:</b></p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p>
		<b>Parent/Child Validation</b>
		<p><b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> TAVR</p> <p><b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> Tricuspid Valve Procedure</p>



Section: Post-Procedure Highest Creatinine

Parent: Post-Procedure Clinical Data

<b>Element:</b> 13764	Creatinine	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the post-procedure creatinine level in mg/dL. If more than one level is available, code the peak level.	<b>Code:</b> 2160-0
<b>Target Value:</b>	The highest value between end of current procedure and discharge	<b>Code System Name:</b> LOINC
<b>Supporting Definition:</b>	<p><b>Creatinine</b></p> <p>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.</p> <p><b>Source:</b> <a href="http://s.details.loinc.org/LOINC/2160-0.html?sections=Simple">http://s.details.loinc.org/LOINC/2160-0.html?sections=Simple</a></p>	<p><b>Short Name:</b> PoProc_Creat</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> PQ</p> <p><b>Precision:</b> 4,2</p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b> mg/dL</p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b> 0.10 - 9.00 mg/dL</p> <p><b>Valid Range:</b> 0.10 - 30.00 mg/dL</p> <p><b>Data Source:</b> User</p>
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14293 Highest Creatinine Not Drawn
		<b>Operator:</b> Equal
		<b>Value:</b> No (or Not Answered)

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



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

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

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



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

<b>Element:</b> 13493	Echocardiogram Date	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the date the echocardiogram was performed.	<b>Code:</b> 40701008
<b>Target Value:</b>	Any occurrence between end of current procedure and discharge	<b>Code System Name:</b> SNOMED CT
		<b>Short Name:</b> POpTTEchDate
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> DT
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
<b>Element:</b> 13592	Echocardiogram Performed	
<b>Operator:</b>	Equal	
<b>Value:</b>	Transesophageal Echocardiogram (TEE)	
<b>Element:</b> 13592	Echocardiogram Performed	
<b>Operator:</b>	Equal	
<b>Value:</b>	Transthoracic Echo (TTE)	

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



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

<b>Element:</b> 13675      Aortic Valve Mean Gradient	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate the mean gradient (in mm Hg) across the aortic valve.	<b>Code:</b> 112000001398
<b>Target Value:</b> The highest value between end of current procedure and discharge	<b>Code System Name:</b> ACC NCDR
	<b>Short Name:</b> PP_AVMeanGradient
	<b>Missing Data:</b> Report
	<b>Harvested:</b> Yes (BDS, TAVR, TTVP)
	<b>Is Identifier:</b> No
	<b>Is Base Element:</b> Yes
	<b>Is Followup Element:</b> No
	<b>Data Type:</b> PQ
	<b>Precision:</b> 3,0
	<b>Selection Type:</b> Single
	<b>Unit of Measure:</b> mm[Hg]
	<b>Default Value:</b> Null
	<b>Usual Range:</b> 5 - 50 mm[Hg]
	<b>Valid Range:</b> 0 - 200 mm[Hg]
	<b>Data Source:</b> User
	<b>Parent/Child Validation</b>
	<b>Element:</b> 13592      Echocardiogram Performed
	<b>Operator:</b> Equal
	<b>Value:</b> Transthoracic Echo (TTE)
	<b>Element:</b> 13592      Echocardiogram Performed
	<b>Operator:</b> Equal
	<b>Value:</b> Transesophageal Echocardiogram (TEE)
	----- AND -----
	<b>Element:</b> 14273      Transcatheter Valve Therapy
	Procedure Type
	<b>Operator:</b> Equal
	<b>Value:</b> TAVR
	<b>Element:</b> 14273      Transcatheter Valve Therapy
	Procedure Type
	<b>Operator:</b> Equal
	<b>Value:</b> Tricuspid Valve Procedure



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

**Element:** 13526      Aortic Valve Regurgitation

**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 last value between end of current procedure and next procedure or discharge

**Technical Specification**

**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

**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**

**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

**Technical Specification**

**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

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

If mild-moderate is documented, code as mild.  
If moderate-severe is documented, code as moderate.

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

**Technical Specification**

**Code:** 111287006  
**Code System Name:** SNOMED CT  
**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

<b>Element:</b> 13779	Effective Regurgitant Orifice Area	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the effective regurgitant orifice area (EROA), in cm2.	<b>Code:</b> 11200001437
<b>Target Value:</b>	The highest value between end of current procedure and next procedure or discharge	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> PP_MV_EOA
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TMVR, TMVrpr)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> PQ
		<b>Precision:</b> 2,1
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> cm2
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 0.1 - 5.0 cm2
		<b>Valid Range:</b> 0.1 - 5.0 cm2
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
<b>Element:</b> 13592	Echocardiogram Performed	
<b>Operator:</b>	Equal	
<b>Value:</b>	Transthoracic Echo (TTE)	
<b>Element:</b> 13592	Echocardiogram Performed	
<b>Operator:</b>	Equal	
<b>Value:</b>	Transesophageal Echocardiogram (TEE)	
----- AND -----		
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type	
<b>Operator:</b>	Equal	
<b>Value:</b>	TMVR	
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type	
<b>Operator:</b>	Equal	
<b>Value:</b>	TMVr	

<b>Element:</b> 13769	Effective Regurgitant Orifice Area Method of Assessment	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the method used to assess the effective regurgitant orifice area. If multiple methods are available, code the 3D planimetry method first, then PISA.	<b>Code:</b> 11200001437
<b>Target Value:</b>	Any occurrence between end of current procedure and discharge	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> PP_MV_EOA_MOA
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TMVR, TMVrpr)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
<b>Element:</b> 13779	Effective Regurgitant Orifice Area	
<b>Operator:</b>		
<b>Value:</b>	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			11200001438	ACC NCDR
Proximal Isovelocity Surface Area			11200001439	ACC NCDR
Quantitative Doppler			11200001440	ACC NCDR
Other			100000351	ACC NCDR



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

<b>Element:</b> 13770	Mitral Valve Mean Gradient	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the mean gradient (in mm Hg) across the mitral valve.	<b>Code:</b> 11200001191
<b>Target Value:</b>	The highest value between end of current procedure and discharge	<b>Code System Name:</b> ACC NCDR
<b>Supporting Definition:</b>	<b>Mitral Valve Mean Gradient</b> The average gradient across the mitral valve occurring during the entire systole.	<b>Short Name:</b> PP_MVMeanGradient
	<b>Source:</b> Baumgartner, H. et. al (2009). Echocardiographic assessment of valve stenosis: EAE/ASE recommendations for clinical practice.	<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TMVR, TMVrpr)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> PQ
		<b>Precision:</b> 3,0
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> mm[Hg]
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 5 - 50 mm[Hg]
		<b>Valid Range:</b> 0 - 150 mm[Hg]
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13592 Echocardiogram Performed
		<b>Operator:</b> Equal
		<b>Value:</b> Transthoracic Echo (TTE)
		<b>Element:</b> 13592 Echocardiogram Performed
		<b>Operator:</b> Equal
		<b>Value:</b> Transesophageal Echocardiogram (TEE)
		----- AND -----
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TMVR
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TMVr



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

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

<b>Element:</b> 13772	Left Ventricular Outflow Tract Peak Velocity	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the left ventricular outflow tract peak velocity in m/sec.	<b>Code:</b> 112000002047
<b>Target Value:</b>	The highest value between end of current procedure and discharge	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> PP_LVOT
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TMVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> PQ
		<b>Precision:</b> 3,1
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> m/sec
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 0.5 - 5.0 m/sec
		<b>Valid Range:</b> 0.1 - 10.0 m/sec
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13592 Echocardiogram Performed
		<b>Operator:</b> Equal
		<b>Value:</b> Transthoracic Echo (TTE)
		<b>Element:</b> 13592 Echocardiogram Performed
		<b>Operator:</b> Equal
		<b>Value:</b> Transesophageal Echocardiogram (TEE)
		----- AND -----
		<b>Element:</b> 14273 Transcatheter Valve Therapy
		Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> 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:** 11200001481

**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

**Coding Instruction:** Indicate the post-procedure tricuspid valve diastolic gradient in mm Hg. This can also be called the TV inflow gradient.

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

**Technical Specification**

**Code:** 11200001512

**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

**Coding Instruction:** Indicate if the tricuspid valve diastolic gradient was not documented post-procedure.

**Target Value:** N/A

Technical Specification	
<b>Code:</b>	11200001512
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	PP_TVDDGradND
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	BL
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	Tricuspid Valve Procedure
----- AND -----	
<b>Element:</b> 13592	Echocardiogram Performed
<b>Operator:</b>	Equal
<b>Value:</b>	Transthoracic Echo (TTE)
<b>Element:</b> 13592	Echocardiogram Performed
<b>Operator:</b>	Equal
<b>Value:</b>	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	
<b>Code:</b>	11200001513
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	PP_TVAnnulus
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	PQ
<b>Precision:</b>	2,0
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	mm
<b>Default Value:</b>	Null
<b>Usual Range:</b>	15 - 60 mm
<b>Valid Range:</b>	1 - 80 mm
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b> 13592	Echocardiogram Performed
<b>Operator:</b>	Equal
<b>Value:</b>	Transthoracic Echo (TTE)
<b>Element:</b> 13592	Echocardiogram Performed
<b>Operator:</b>	Equal
<b>Value:</b>	Transesophageal Echocardiogram (TEE)
----- AND -----	
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	Tricuspid Valve Procedure
----- AND -----	
<b>Element:</b> 14495	Tricuspid Valve Annulus Size Not Documented
<b>Operator:</b>	Equal
<b>Value:</b>	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:** 11200001513

**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

**Coding Instruction:** Indicate the end-diastolic mid right ventricular (RV) diameter, using the 4 chamber view (in cm).

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

Technical Specification	
<b>Code:</b>	112000001514
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	PP_MidRVDia
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	PQ
<b>Precision:</b>	2,1
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	cm
<b>Default Value:</b>	Null
<b>Usual Range:</b>	1.0 - 7.0 cm
<b>Valid Range:</b>	0.1 - 9.9 cm
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b> 13592	Echocardiogram Performed
<b>Operator:</b>	Equal
<b>Value:</b>	Transthoracic Echo (TTE)
<b>Element:</b> 13592	Echocardiogram Performed
<b>Operator:</b>	Equal
<b>Value:</b>	Transesophageal Echocardiogram (TEE)
----- AND -----	
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	Tricuspid Valve Procedure
----- AND -----	
<b>Element:</b> 14496	End Diastolic Mid Right Ventricle Diameter Not Documented
<b>Operator:</b>	Equal
<b>Value:</b>	No (or Not Answered)



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

Element: 14496 End Diastolic Mid Right Ventricle Diameter Not Documented

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

**Target Value:** N/A

**Technical Specification**

**Code:** 11200001514

**Code System Name:** ACC NCDR

**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

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



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

**Element:** 14497      End Diastolic Basal Right Ventricle Diameter Not Documented

**Coding Instruction:** Indicate if the end diastolic basal right ventricular (RV) diameter was not documented.

**Target Value:** N/A

Technical Specification	
<b>Code:</b>	112000001515
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	PP_BasalRVDiaND
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	BL
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b> 13592	Echocardiogram Performed
<b>Operator:</b>	Equal
<b>Value:</b>	Transthoracic Echo (TTE)
<b>Element:</b> 13592	Echocardiogram Performed
<b>Operator:</b>	Equal
<b>Value:</b>	Transesophageal Echocardiogram (TEE)
----- AND -----	
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	Tricuspid Valve Procedure



Section: Post-Procedure Echocardiogram Findings

Parent: Post-Procedure

**Element:** 14297      Right Ventricular Systolic Pressure

**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.

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

**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

**Technical Specification**

**Code:** 276772001  
**Code System Name:** SNOMED CT  
**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

**Coding Instruction:** Indicate if the right ventricular systolic pressure was not documented.

**Target Value:** N/A

**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

Technical Specification	
<b>Code:</b>	276772001
<b>Code System Name:</b>	SNOMED CT
<b>Short Name:</b>	PP_RVSYSDND
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	BL
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b> 13592	Echocardiogram Performed
<b>Operator:</b>	Equal
<b>Value:</b>	Transthoracic Echo (TTE)
<b>Element:</b> 13592	Echocardiogram Performed
<b>Operator:</b>	Equal
<b>Value:</b>	Transesophageal Echocardiogram (TEE)
----- AND -----	
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	Tricuspid Valve Procedure



Section: Post-Procedure AV Regurgitation

Parent: Post-Procedure Echocardiogram Findings

<b>Element:</b> 14503	Paravalvular Aortic Regurgitation	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the severity of paravalvular aortic valve regurgitation.	<b>Code:</b> 11200001428
	Note: If trace/trivial is documented, code "none".	<b>Code System Name:</b> ACC NCDR
<b>Target Value:</b>	The highest value between end of current procedure and discharge	<b>Short Name:</b> PP_ParaAR
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13526 Aortic Valve Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Mild
		<b>Element:</b> 13526 Aortic Valve Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Moderate
		<b>Element:</b> 13526 Aortic Valve Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Severe
		<b>Element:</b> 13526 Aortic Valve Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Trace/Trivial
		----- AND -----
		<b>Element:</b> 14524 Paravalvular Aortic Regurgitation Not Documented
		<b>Operator:</b> Equal
		<b>Value:</b> No (or Not Answered)
		----- AND -----
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> 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			11200001910	ACC NCDR
Mild			11200000380	ACC NCDR
Moderate			11200000381	ACC NCDR
Severe			11200000382	ACC NCDR



Section: Post-Procedure AV Regurgitation

Parent: Post-Procedure Echocardiogram Findings

**Element:** 14524 Paravalvular Aortic Regurgitation Not Documented

**Coding Instruction:** Indicate if the severity of paravalvular aortic valve regurgitation was not documented post-procedure.

**Target Value:** N/A

Technical Specification	
<b>Code:</b>	112000001428
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	PP_ParaARND
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (BDS, TAVR)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	BL
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b> 13526	Aortic Valve Regurgitation
<b>Operator:</b>	Equal
<b>Value:</b>	Mild
<b>Element:</b> 13526	Aortic Valve Regurgitation
<b>Operator:</b>	Equal
<b>Value:</b>	Moderate
<b>Element:</b> 13526	Aortic Valve Regurgitation
<b>Operator:</b>	Equal
<b>Value:</b>	Severe
<b>Element:</b> 13526	Aortic Valve Regurgitation
<b>Operator:</b>	Equal
<b>Value:</b>	Trace/Trivial
----- AND -----	
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	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	
<b>Code:</b>	11200001433
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	PP_CentralAR
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (TAVR)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	Yes
<b>Is Followup Element:</b>	No
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b> 13526	Aortic Valve Regurgitation
<b>Operator:</b>	Equal
<b>Value:</b>	Mild
<b>Element:</b> 13526	Aortic Valve Regurgitation
<b>Operator:</b>	Equal
<b>Value:</b>	Moderate
<b>Element:</b> 13526	Aortic Valve Regurgitation
<b>Operator:</b>	Equal
<b>Value:</b>	Severe
<b>Element:</b> 13526	Aortic Valve Regurgitation
<b>Operator:</b>	Equal
<b>Value:</b>	Trace/Trivial
----- AND -----	
<b>Element:</b> 14487	Central Aortic Regurgitation Not Documented
<b>Operator:</b>	Equal
<b>Value:</b>	No (or Not Answered)
----- AND -----	
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	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			11200001910	ACC NCDR
Mild			11200000380	ACC NCDR
Moderate			11200000381	ACC NCDR
Severe			11200000382	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

<b>Element:</b> 13766	Paravalvular Mitral Regurgitation	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the severity of paravalvular mitral valve regurgitation.	<b>Code:</b> 11200001428
	Note: If trace/trivial is documented, code "none".	<b>Code System Name:</b> ACC NCDR
<b>Target Value:</b>	The highest value between end of current procedure and discharge	<b>Short Name:</b> PP_ParaMR
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TMVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13494 Mitral Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Trace/Trivial
		<b>Element:</b> 13494 Mitral Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Mild
		<b>Element:</b> 13494 Mitral Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Moderate
		<b>Element:</b> 13494 Mitral Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Severe
		<b>Element:</b> 13494 Mitral Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Moderate-Severe
		----- AND -----
		<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TMVR
		----- AND -----
		<b>Element:</b> 14525 Paravalvular Mitral Regurgitation Not Documented
		<b>Operator:</b> Equal
		<b>Value:</b> 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			11200001910	ACC NCDR
Mild			11200000380	ACC NCDR
Moderate			11200000381	ACC NCDR
Severe			11200000382	ACC NCDR



Section: Post-Procedure MV Regurgitation

Parent: Post-Procedure Echocardiogram Findings

<b>Element:</b> 14525      Paravalvular Mitral Regurgitation Not Documented	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate if the severity of paravalvular mitral regurgitation was not documented.	<b>Code:</b> 112000001428
<b>Target Value:</b> N/A	<b>Code System Name:</b> ACC NCDR
	<b>Short Name:</b> PP_ParaMRND
	<b>Missing Data:</b> Report
	<b>Harvested:</b> Yes (BDS, TMVR)
	<b>Is Identifier:</b> No
	<b>Is Base Element:</b> Yes
	<b>Is Followup Element:</b> No
	<b>Data Type:</b> BL
	<b>Precision:</b>
	<b>Selection Type:</b> Single
	<b>Unit of Measure:</b>
	<b>Default Value:</b> Null
	<b>Usual Range:</b>
	<b>Valid Range:</b>
	<b>Data Source:</b> User
	<b>Parent/Child Validation</b>
	<b>Element:</b> 14273      Transcatheter Valve Therapy Procedure Type <b>Operator:</b> Equal <b>Value:</b> TMVR
	----- AND -----
	<b>Element:</b> 13494      Mitral Regurgitation
	<b>Operator:</b> Equal <b>Value:</b> Mild
	<b>Element:</b> 13494      Mitral Regurgitation
	<b>Operator:</b> Equal <b>Value:</b> Moderate
	<b>Element:</b> 13494      Mitral Regurgitation
	<b>Operator:</b> Equal <b>Value:</b> Severe
	<b>Element:</b> 13494      Mitral Regurgitation
	<b>Operator:</b> Equal <b>Value:</b> Trace/Trivial
	<b>Element:</b> 13494      Mitral Regurgitation
	<b>Operator:</b> Equal <b>Value:</b> Moderate-Severe



Section: Post-Procedure MV Regurgitation

Parent: Post-Procedure Echocardiogram Findings

<b>Element:</b> 13767	Central Mitral Regurgitation	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the severity of central mitral valve regurgitation.	<b>Code:</b> 112000001433
	Note: If trace/trivial is documented, code "none".	<b>Code System Name:</b> ACC NCDR
<b>Target Value:</b>	The highest value between end of current procedure and discharge	<b>Short Name:</b> PP_CentralMR
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TMVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
<b>Element:</b> 13494	Mitral Regurgitation	
<b>Operator:</b>	Equal	
<b>Value:</b>	Mild	
<b>Element:</b> 13494	Mitral Regurgitation	
<b>Operator:</b>	Equal	
<b>Value:</b>	Moderate	
<b>Element:</b> 13494	Mitral Regurgitation	
<b>Operator:</b>	Equal	
<b>Value:</b>	Severe	
<b>Element:</b> 13494	Mitral Regurgitation	
<b>Operator:</b>	Equal	
<b>Value:</b>	Trace/Trivial	
<b>Element:</b> 13494	Mitral Regurgitation	
<b>Operator:</b>	Equal	
<b>Value:</b>	Moderate-Severe	
----- AND -----		
<b>Element:</b> 14273	Transcatheter Valve Therapy Procedure Type	
<b>Operator:</b>	Equal	
<b>Value:</b>	TMVR	
----- AND -----		
<b>Element:</b> 14488	Central Mitral Regurgitation Not Documented	
<b>Operator:</b>	Equal	
<b>Value:</b>	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: 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

<b>Element:</b> 14505	Paravalvular Tricuspid Regurgitation	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the severity of paravalvular tricuspid valve regurgitation.	<b>Code:</b> 112000001428
	Note: If trace/trivial is documented, code "none".	<b>Code System Name:</b> ACC NCDR
<b>Target Value:</b>	The highest value between end of current procedure and discharge	<b>Short Name:</b> PP_ParaTR
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
	<b>Element:</b> 13677 Tricuspid Valve Regurgitation	
	<b>Operator:</b> Equal	
	<b>Value:</b> Mild	
	<b>Element:</b> 13677 Tricuspid Valve Regurgitation	
	<b>Operator:</b> Equal	
	<b>Value:</b> Moderate	
	<b>Element:</b> 13677 Tricuspid Valve Regurgitation	
	<b>Operator:</b> Equal	
	<b>Value:</b> Severe	
	<b>Element:</b> 13677 Tricuspid Valve Regurgitation	
	<b>Operator:</b> Equal	
	<b>Value:</b> Trace/Trivial	
	----- AND -----	
	<b>Element:</b> 14273 Transcatheter Valve Therapy Procedure Type	
	<b>Operator:</b> Equal	
	<b>Value:</b> Tricuspid Valve Procedure	
	----- AND -----	
	<b>Element:</b> 14526 Paravalvular Tricuspid Regurgitation Not Documented	
	<b>Operator:</b> Equal	
	<b>Value:</b> 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

**Coding Instruction:** Indicate if the severity of paravalvular tricuspid regurgitation was not documented post-procedure

**Target Value:** N/A

**Technical Specification**

**Code:** 112000001428  
**Code System Name:** ACC NCDR  
**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

<p><b>Element:</b> 14501      Central Tricuspid Regurgitation</p> <p><b>Coding Instruction:</b> Indicate the severity of central tricuspid valve regurgitation.</p> <p style="padding-left: 40px;">Note: If trace/trivial is documented, code "none".</p> <p><b>Target Value:</b> The highest value between end of current procedure and discharge</p>	<p style="text-align: center;"><b>Technical Specification</b></p> <p><b>Code:</b> 111287006</p> <p><b>Code System Name:</b> SNOMED CT</p> <p><b>Short Name:</b> PP_CentralTR</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> CD</p> <p><b>Precision:</b></p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p> <p style="text-align: center;"><b>Parent/Child Validation</b></p> <p><b>Element:</b> 13677      Tricuspid Valve Regurgitation</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> Mild</p> <p><b>Element:</b> 13677      Tricuspid Valve Regurgitation</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> Moderate</p> <p><b>Element:</b> 13677      Tricuspid Valve Regurgitation</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> Severe</p> <p><b>Element:</b> 13677      Tricuspid Valve Regurgitation</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> Trace/Trivial</p> <p style="text-align: center;">----- AND -----</p> <p><b>Element:</b> 14273      Transcatheter Valve Therapy Procedure Type</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> Tricuspid Valve Procedure</p> <p style="text-align: center;">----- AND -----</p> <p><b>Element:</b> 14489      Central Tricuspid Regurgitation Not Documented</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> No (or Not Answered)</p>
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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			11200001910	ACC NCDR
Mild			112000000380	ACC NCDR
Moderate			112000000381	ACC NCDR
Severe			112000000382	ACC NCDR



Section: Post-Procedure TV Regurgitation

Parent: Post-Procedure Echocardiogram Findings

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



Section: Discharge

Parent: Root

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

Element: 10070	Discharge Provider Last Name	Technical Specification
<b>Coding Instruction:</b>	Indicate the last name of the discharge provider.	<b>Code:</b> 1000142453
	Note(s): If the name exceeds 50 characters, enter the first 50 characters only.	<b>Code System Name:</b> 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.	<b>Short Name:</b> DCLName
<b>Target Value:</b>	The value on discharge	<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> LN
		<b>Precision:</b> 50
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User

Element: 10071	Discharge Provider First Name	Technical Specification
<b>Coding Instruction:</b>	Indicate the first name of the discharge provider.	<b>Code:</b> 1000142453
	Note(s): If the name exceeds 50 characters, enter the first 50 characters only.	<b>Code System Name:</b> 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.	<b>Short Name:</b> DCFName
<b>Target Value:</b>	The value on discharge	<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> FN
		<b>Precision:</b> 50
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User



**Section: Discharge** **Parent: Root**

<b>Element:</b> 10072	Discharge Provider Middle Name	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the middle name of the discharge provider.	<b>Code:</b> 1000142453
	<b>Note(s):</b> It is acceptable to specify the middle initial.	<b>Code System Name:</b> ACC NCDR
	If there is no middle name given, leave field blank.	<b>Short Name:</b> DCMName
	If there are multiple middle names, enter all of the middle names sequentially.	<b>Missing Data:</b> Report
	If the name exceeds 50 characters, enter the first 50 letters only.	<b>Harvested:</b> 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.	<b>Is Identifier:</b> No
<b>Target Value:</b>	The value on discharge	<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> MN
		<b>Precision:</b> 50
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User

<b>Element:</b> 10073	Discharge Provider NPI	<b>Technical Specification</b>
<b>Coding Instruction:</b>	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.	<b>Code:</b> 1000142453
	<b>Note(s):</b> 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.	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> DCNPI
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
<b>Target Value:</b>	The value on discharge	<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> NUM
		<b>Precision:</b> 10
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User

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

<b>Element:</b> 10116	<b>Cardiac Rehabilitation Referral</b>	<b>Technical Specification</b>
<b>Coding Instruction:</b>	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.	<b>Code:</b> 100014067
<b>Target Value:</b>	The value on discharge	<b>Code System Name:</b> ACC NCDR
<b>Supporting Definition:</b>	<p><b>Cardiac Rehabilitation Referral</b></p> <p>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</p> <p><b>Source:</b> 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</p>	<p><b>Short Name:</b> DC_CardRehab</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> No</p> <p><b>Data Type:</b> CD</p> <p><b>Precision:</b></p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p>
		<b>Parent/Child Validation</b>
		<b>Element:</b> 10105 Discharge Status
		<b>Operator:</b> Equal
		<b>Value:</b> 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

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

**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**

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

<b>Element:</b> 10120	Death During the Procedure	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the patient expired during the procedure.	<b>Code:</b> 10000923
	Note(s): Make sure to only capture 'death during the procedure' in the procedure appropriate registry.	<b>Code System Name:</b> 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.	<b>Short Name:</b> DeathProcedure
<b>Target Value:</b>	Any occurrence on discharge	<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 10105 Discharge Status
		<b>Operator:</b> Equal
		<b>Value:</b> Deceased



Section: Discharge

Parent: Root

Element: 10125 Cause of Death		Technical Specification
<b>Coding Instruction:</b>	Indicate the primary cause of death, i.e. the first significant abnormal event which ultimately led to death.	<b>Code:</b> 184305005
<b>Target Value:</b>	The value on time of death	<b>Code System Name:</b> SNOMED CT
		<b>Short Name:</b> DeathCause
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVp)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
Parent/Child Validation		
<b>Element:</b>	10105 Discharge Status	
<b>Operator:</b>	Equal	
<b>Value:</b>	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.		10000960	ACC NCDR
Sudden cardiac death	Death that occurs unexpectedly, and not within 30 days of an acute MI.		10000978	ACC NCDR
Heart failure	Death associated with clinically worsening symptoms and/or signs of heart failure.		10000964	ACC NCDR
Stroke	Death after a stroke that is either a direct consequence of the stroke or a complication of the stroke.		10000977	ACC NCDR
Cardiovascular procedure	Death caused by the immediate complication(s) of a cardiovascular procedure.		10000962	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.		10000961	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).		10000972	ACC NCDR
Pulmonary	Non-cardiovascular death attributable to disease of the lungs (excludes malignancy).		10000975	ACC NCDR
Renal	Non-cardiovascular death attributable to renal failure.		10000976	ACC NCDR
Gastrointestinal	Non-cardiovascular death attributable to disease of the esophagus, stomach, or intestines (excludes malignancy).		10000963	ACC NCDR
Hepatobiliary	Non-cardiovascular death attributable to disease of the liver, gall bladder, or biliary ducts (exclude malignancy).		10000966	ACC NCDR
Pancreatic	Non-cardiovascular death attributable to disease of the pancreas (excludes malignancy).		10000974	ACC NCDR
Infection	Non-cardiovascular death attributable to an infectious disease.		10000967	ACC NCDR
Inflammatory/Immunologic	Non-cardiovascular death attributable to an inflammatory or immunologic disease process.		10000968	ACC NCDR
Hemorrhage	Non-cardiovascular death attributable to bleeding that is not considered cardiovascular hemorrhage or stroke per this classification.		10000965	ACC NCDR
Non-cardiovascular procedure	Death caused by the immediate complication(s) of a		10000971	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
<b>Coding Instruction:</b>	Indicate if there was a transfusion(s) of packed red blood cells.	<b>Code:</b> 71493000
<b>Target Value:</b>	Any occurrence between start of procedure and until next procedure or discharge	<b>Code System Name:</b> SNOMED CT
		<b>Short Name:</b> PostTransfusion
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> No
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User

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



Section: Discharge Medications

Parent: Discharge

**Element:** 10200      Discharge Medication Code

**Coding Instruction:** Indicate the assigned identification number associated with the medications the patient was prescribed upon discharge.

**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.

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.

**Target Value:** N/A

**Technical Specification**

**Code:** 100013057  
**Code System Name:** ACC NCDR  
**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

**Coding Instruction:** Indicate if the medication was prescribed, not prescribed, or was not prescribed for either a medical or patient reason.

**Note(s):**  
Discharge medications do not need to be recorded for patients who were discharged to "Other acute care hospital", "Left against medical advice (AMA)" or are receiving Hospice Care is 'Yes'.

**Target Value:** The value on discharge

**Vendor Instruction:** When Discharge Medication Code (10200) is selected Discharge Medications Prescribed (10205) cannot be Null

**Technical Specification**

**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

**Coding Instruction:** Specify the total daily dose of the loop diuretic that was prescribed to the patient at discharge.

**Target Value:** The value on discharge

**Technical Specification**

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

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

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



Section: Follow Up

Parent: Root

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

<b>Element:</b> 13705	Transcatheter Valve Therapy Reference Procedure Type	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the procedure type performed at the reference procedure start date/time.	<b>Code:</b> 112000001167
<b>Target Value:</b>	The value on Follow-up	<b>Code System Name:</b> ACC NCDR
<b>Vendor Instruction:</b>	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)	<b>Short Name:</b> F_RefProType
		<b>Missing Data:</b> Illegal
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Multiple
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> 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**

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

**Target Value:** The value on Follow-up

**Technical Specification**

**Code:** 308273005

**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**

**Coding Instruction:** Indicate the date of discharge for the episode of care that included the reference procedure.

**Target Value:** The value on Follow-up

**Vendor Instruction:** Follow-Up Reference Discharge Date (14338) must not be Null

**Technical Specification**

**Code:** 112000001859

**Code System Name:** ACC NCDR

**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

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

<b>Element:</b> 11003	Method to Determine Follow-Up Status	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the method to determine follow-up status.	<b>Code:</b> 100014059
<b>Target Value:</b>	The value on Follow-up	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> F_Method
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Multiple
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> 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
Hospitalized			1000142363	ACC NCDR
Obituary List			11200001406	ACC NCDR
Centers for Medicare and Medicaid Services Linked Data			11200001407	ACC NCDR
Other			100000351	ACC NCDR



Section: Follow Up

Parent: Root

Element: 11007 Cause of Death		Technical Specification	
<b>Coding Instruction:</b>	Indicate the primary cause of death, i.e. the first significant abnormal event which ultimately led to death.	<b>Code:</b>	184305005
<b>Target Value:</b>	The value on Follow-up	<b>Code System Name:</b>	SNOMED CT
		<b>Short Name:</b>	F_DeathCause
		<b>Missing Data:</b>	Report
		<b>Harvested:</b>	Yes (BDS, TAVR, TMVR, TMVrpr, TTVp)
		<b>Is Identifier:</b>	No
		<b>Is Base Element:</b>	No
		<b>Is Followup Element:</b>	Yes
		<b>Data Type:</b>	CD
		<b>Precision:</b>	
		<b>Selection Type:</b>	Single
		<b>Unit of Measure:</b>	
		<b>Default Value:</b>	Null
		<b>Usual Range:</b>	
		<b>Valid Range:</b>	
		<b>Data Source:</b>	User
Parent/Child Validation			
<b>Element:</b>	11004	<b>Follow-Up Status:</b>	
<b>Operator:</b>	Equal		
<b>Value:</b>	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.		10000960	ACC NCDR
Sudden cardiac death	Death that occurs unexpectedly, and not within 30 days of an acute MI.		10000978	ACC NCDR
Heart failure	Death associated with clinically worsening symptoms and/or signs of heart failure.		10000964	ACC NCDR
Stroke	Death after a stroke that is either a direct consequence of the stroke or a complication of the stroke.		10000977	ACC NCDR
Cardiovascular procedure	Death caused by the immediate complication(s) of a cardiovascular procedure.		10000962	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.		10000961	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).		10000972	ACC NCDR
Pulmonary	Non-cardiovascular death attributable to disease of the lungs (excludes malignancy).		10000975	ACC NCDR
Renal	Non-cardiovascular death attributable to renal failure.		10000976	ACC NCDR
Gastrointestinal	Non-cardiovascular death attributable to disease of the esophagus, stomach, or intestines (excludes malignancy).		10000963	ACC NCDR
Hepatobiliary	Non-cardiovascular death attributable to disease of the liver, gall bladder, or biliary ducts (exclude malignancy).		10000966	ACC NCDR
Pancreatic	Non-cardiovascular death attributable to disease of the pancreas (excludes malignancy).		10000974	ACC NCDR
Infection	Non-cardiovascular death attributable to an infectious disease.		10000967	ACC NCDR
Inflammatory/Immunologic	Non-cardiovascular death attributable to an inflammatory or immunologic disease process.		10000968	ACC NCDR
Hemorrhage	Non-cardiovascular death attributable to bleeding that is not considered cardiovascular hemorrhage or stroke per this classification.		10000965	ACC NCDR
Non-cardiovascular procedure	Death caused by the immediate complication(s) of a		10000971	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
<b>Coding Instruction:</b> Indicate the primary residence of the patient at the time of follow-up. <b>Target Value:</b> The value on Follow-up		<b>Code:</b> 112000001506 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> F_Residence <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> No <b>Is Followup Element:</b> Yes <b>Data Type:</b> CD <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
		<b>Parent/Child Validation</b> <b>Element:</b> 11004 Follow-Up Status <b>Operator:</b> Equal <b>Value:</b> Alive ----- AND ----- <b>Element:</b> 14511 Residence Not Documented <b>Operator:</b> Equal <b>Value:</b> 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

**Coding Instruction:** Indicate if the primary residence of the patient was not documented during follow-up.

**Target Value:** N/A

**Technical Specification**

**Code:** 11200001506  
**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

<b>Element:</b> 13775	Hemoglobin	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the hemoglobin (Hgb) value in g/dL.	<b>Code:</b> 718-7
	<b>Note(s):</b> This may include POC (Point of Care) testing results or results obtained prior to arrival at this facility.	<b>Code System Name:</b> LOINC
<b>Target Value:</b>	The last value between discharge (or previous follow-up) and current follow-up assessment	<b>Short Name:</b> FU_ProcHgb1
<b>Supporting Definition:</b>	<b>Hemoglobin</b> 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. <b>Source:</b> <a href="http://s.details.loinc.org/LOINC/718-7.html?sections=Simple">http://s.details.loinc.org/LOINC/718-7.html?sections=Simple</a>	<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> PQ
		<b>Precision:</b> 4,2
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> g/dL
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 5.00 - 20.00 g/dL
		<b>Valid Range:</b> 1.00 - 50.00 g/dL
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14326 Hemoglobin Not Drawn
		<b>Operator:</b> Equal
		<b>Value:</b> No (or Not Answered)

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



Section: Follow-Up Clinical Assessment

Parent: Follow Up

<b>Element:</b> 13310      Creatinine	<b>Technical Specification</b>
<p><b>Coding Instruction:</b> Indicate the creatinine value.</p> <p><b>Target Value:</b> The last value between discharge (or previous follow-up) and current follow-up assessment</p> <p><b>Supporting Definition:</b> <b>Creatinine</b> 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.</p> <p><b>Source:</b> <a href="http://s.details.loinc.org/LOINC/2160-0.html?sections=Simple">http://s.details.loinc.org/LOINC/2160-0.html?sections=Simple</a></p>	<p><b>Code:</b> 2160-0</p> <p><b>Code System Name:</b> LOINC</p> <p><b>Short Name:</b> Follow_Creat</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> No</p> <p><b>Is Followup Element:</b> Yes</p> <p><b>Data Type:</b> PQ</p> <p><b>Precision:</b> 4,2</p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b> mg/dL</p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b> 0.10 - 9.00 mg/dL</p> <p><b>Valid Range:</b> 0.10 - 30.00 mg/dL</p> <p><b>Data Source:</b> User</p>
	<p><b>Parent/Child Validation</b></p> <p><b>Element:</b> 13311      Creatinine Not Drawn</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> No (or Not Answered)</p>

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



Section: Follow-Up Clinical Assessment

Parent: Follow Up

<b>Element:</b> 13688	New York Heart Association Classification	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the patient's latest dyspnea or functional class, coded as the New York Heart Association (NYHA) classification.	<b>Code:</b> 420816009
<b>Target Value:</b>	The value on Follow-up	<b>Code System Name:</b> SNOMED CT
<b>Supporting Definition:</b> NYHA	The NYHA classes focus on exercise capacity and the symptomatic status of the disease. <b>Source:</b> 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	<b>Short Name:</b> F_NYHA
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
<b>Parent/Child Validation</b>		
		<b>Element:</b> 14333 New York Heart Association Classification Not Documented
		<b>Operator:</b> Equal
		<b>Value:</b> 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

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



Section: Follow-Up Clinical Assessment

Parent: Follow Up

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

<b>Element:</b> 13621	12 Lead Electrocardiogram Findings	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the 12 lead ECG findings during follow-up. If more than one ECG is performed, document the findings from any ECG.	<b>Code:</b> 11200001362
<b>Target Value:</b>	The value on Follow-up	<b>Code System Name:</b> ACC NCDR
<b>Vendor Instruction:</b>	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	<b>Short Name:</b> F_EKGChange
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Multiple
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13689 12 Lead Electrocardiogram Performed
		<b>Operator:</b> Equal
		<b>Value:</b> 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			11200001391	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

**Coding Instruction:** Indicate whether an echo (and the type of echo) was performed in the follow-up assessment period.

**Target Value:** Any occurrence on follow-up

Technical Specification	
<b>Code:</b>	40701008
<b>Code System Name:</b>	SNOMED CT
<b>Short Name:</b>	F_POPTTEch
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	No
<b>Is Followup Element:</b>	Yes
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b>	14512 Echocardiogram Not Performed
<b>Operator:</b>	Equal
<b>Value:</b>	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

**Coding Instruction:** Indicate if an echocardiogram was not performed during follow-up.

**Target Value:** N/A

Technical Specification	
<b>Code:</b>	40701008
<b>Code System Name:</b>	SNOMED CT
<b>Short Name:</b>	F_EchoND
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	No
<b>Is Followup Element:</b>	Yes
<b>Data Type:</b>	BL
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User



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

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

<b>Element:</b> 13690	Left Ventricular Ejection Fraction	<b>Technical Specification</b>
	<b>Coding Instruction:</b> Indicate the left ventricular ejection fraction.	<b>Code:</b> 10230-1
	<b>Target Value:</b> The value on Follow-up	<b>Code System Name:</b> LOINC
	<b>Supporting Definition: Most Recent LVEF %</b>	<b>Short Name:</b> F_LVEF
	The left ventricular ejection fraction is the percentage of blood emptied from the left ventricle at the end of contraction.	<b>Missing Data:</b> Report
	<b>Source:</b> ACC Clinical Data Standards, Society for Thoracic Surgeons Adult Cardiac Surgery Database (STS)	<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> PQ
		<b>Precision:</b> 2,0
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> %
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 5 - 90 %
		<b>Valid Range:</b> 1 - 99 %
		<b>Data Source:</b> User
<b>Parent/Child Validation</b>		
	<b>Element:</b> 13492 Echocardiogram Performed	
	<b>Operator:</b> Equal	
	<b>Value:</b> Transthoracic Echo (TTE)	
	<b>Element:</b> 13492 Echocardiogram Performed	
	<b>Operator:</b> Equal	
	<b>Value:</b> Transesophageal Echocardiogram (TEE)	
	----- AND -----	
	<b>Element:</b> 13691 Left Ventricular Ejection Fraction Not Assessed	
	<b>Operator:</b> Equal	
	<b>Value:</b> No (or Not Answered)	



Section: Follow-Up Imaging

Parent: Follow-Up Echocardiogram

**Element:** 13691      Left Ventricular Ejection Fraction Not Assessed

**Coding Instruction:** Indicate whether the left ventricular ejection fraction was not assessed.

**Target Value:** The value on Follow-up

**Technical Specification**

**Code:** 100001027

**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

<b>Element:</b> 13676      Aortic Valve Mean Gradient	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate the highest aortic valve mean gradient in mm Hg.	<b>Code:</b> 11200001398
<b>Target Value:</b> The highest value on follow up	<b>Code System Name:</b> ACC NCDR
	<b>Short Name:</b> F_AVMeanGradient
	<b>Missing Data:</b> Report
	<b>Harvested:</b> Yes (BDS, TAVR, TTVP)
	<b>Is Identifier:</b> No
	<b>Is Base Element:</b> No
	<b>Is Followup Element:</b> Yes
	<b>Data Type:</b> PQ
	<b>Precision:</b> 3,0
	<b>Selection Type:</b> Single
	<b>Unit of Measure:</b> mm[Hg]
	<b>Default Value:</b> Null
	<b>Usual Range:</b> 5 - 50 mm[Hg]
	<b>Valid Range:</b> 0 - 200 mm[Hg]
	<b>Data Source:</b> User
	<b>Parent/Child Validation</b>
	<b>Element:</b> 13492      Echocardiogram Performed
	<b>Operator:</b> Equal
	<b>Value:</b> Transthoracic Echo (TTE)
	<b>Element:</b> 13492      Echocardiogram Performed
	<b>Operator:</b> Equal
	<b>Value:</b> Transesophageal Echocardiogram (TEE)
	----- AND -----
	<b>Element:</b> 13705      Transcatheter Valve Therapy
	Reference Procedure Type
	<b>Operator:</b> Equal
	<b>Value:</b> TAVR
	<b>Element:</b> 13705      Transcatheter Valve Therapy
	Reference Procedure Type
	<b>Operator:</b> Equal
	<b>Value:</b> Tricuspid Valve Procedure



Section: Follow-Up Aortic Valve

Parent: Follow-Up Echocardiogram

Element: 13669      Aortic Valve Area

**Coding Instruction:** Indicate the smallest aortic valve area, in cm2.

**Target Value:** The value on Follow-up

**Technical Specification**

**Code:** 11200001280

**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

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

<b>Element:</b> 14504	Paravalvular Aortic Regurgitation	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the severity of paravalvular aortic regurgitation.	<b>Code:</b> 112000001428
	Note: If trace/trivial is documented, code "none".	<b>Code System Name:</b> ACC NCDR
<b>Target Value:</b>	The highest value on follow up	<b>Short Name:</b> F_ParaAR
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13527 Aortic Valve Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Mild
		<b>Element:</b> 13527 Aortic Valve Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Moderate
		<b>Element:</b> 13527 Aortic Valve Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Severe
		<b>Element:</b> 13527 Aortic Valve Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Trace/Trivial
		----- AND -----
		<b>Element:</b> 14527 Paravalvular Aortic Regurgitation Not Documented
		<b>Operator:</b> Equal
		<b>Value:</b> No (or Not Answered)
		----- AND -----
		<b>Element:</b> 13705 Transcatheter Valve Therapy Reference Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> 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

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

**Target Value:** N/A

**Technical Specification**

**Code:** 112000001428  
**Code System Name:** ACC NCDR  
**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

<b>Element:</b> 14500	Central Aortic Regurgitation	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the severity of central aortic regurgitation.	<b>Code:</b> 112000001433
	Note: If trace/trivial is documented, code "none".	<b>Code System Name:</b> ACC NCDR
<b>Target Value:</b>	The highest value on follow up	<b>Short Name:</b> F_CentAR
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
<b>Element:</b> 13527	Aortic Valve Regurgitation	
<b>Operator:</b> Equal		
<b>Value:</b> Mild		
<b>Element:</b> 13527	Aortic Valve Regurgitation	
<b>Operator:</b> Equal		
<b>Value:</b> Moderate		
<b>Element:</b> 13527	Aortic Valve Regurgitation	
<b>Operator:</b> Equal		
<b>Value:</b> Severe		
<b>Element:</b> 13527	Aortic Valve Regurgitation	
<b>Operator:</b> Equal		
<b>Value:</b> Trace/Trivial		
----- AND -----		
<b>Element:</b> 14490	Central Aortic Regurgitation Not Documented	
<b>Operator:</b> Equal		
<b>Value:</b> No (or Not Answered)		
----- AND -----		
<b>Element:</b> 13705	Transcatheter Valve Therapy Reference Procedure Type	
<b>Operator:</b> Equal		
<b>Value:</b> 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:** 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

<b>Element:</b> 13778	Mitral Valve Mean Gradient	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the highest mitral valve mean gradient, in mm Hg.	<b>Code:</b> 11200001191
<b>Target Value:</b>	The highest value on follow up	<b>Code System Name:</b> ACC NCDR
<b>Supporting Definition:</b>	<b>Mitral Valve Mean Gradient</b> The average gradient across the mitral valve occurring during the entire systole.	<b>Short Name:</b> F_MeanMVGrad
	<b>Source:</b> Baumgartner, H. et. al (2009). Echocardiographic assessment of valve stenosis: EAE/ASE recommendations for clinical practice.	<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TMVR, TMVrpr)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> PQ
		<b>Precision:</b> 3,0
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> mm[Hg]
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 5 - 50 mm[Hg]
		<b>Valid Range:</b> 0 - 150 mm[Hg]
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13492 Echocardiogram Performed
		<b>Operator:</b> Equal
		<b>Value:</b> Transthoracic Echo (TTE)
		<b>Element:</b> 13492 Echocardiogram Performed
		<b>Operator:</b> Equal
		<b>Value:</b> Transesophageal Echocardiogram (TEE)
		----- AND -----
		<b>Element:</b> 13705 Transcatheter Valve Therapy Reference Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TMVR
		<b>Element:</b> 13705 Transcatheter Valve Therapy Reference Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TMVr



Section: Follow-Up MV Imaging

Parent: Follow-Up Echocardiogram

<b>Element:</b> 13768	Effective Regurgitant Orifice Area	<b>Technical Specification</b>
	<b>Coding Instruction:</b> Indicate the effective regurgitant orifice area (EROA), in cm2.	<b>Code:</b> 11200001437
	<b>Target Value:</b> The highest value on follow up	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> F_MV_EOA
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TMVR, TMVrpr)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> PQ
		<b>Precision:</b> 2,1
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> cm2
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 0.1 - 5.0 cm2
		<b>Valid Range:</b> 0.1 - 5.0 cm2
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13492 Echocardiogram Performed
		<b>Operator:</b> Equal
		<b>Value:</b> Transthoracic Echo (TTE)
		<b>Element:</b> 13492 Echocardiogram Performed
		<b>Operator:</b> Equal
		<b>Value:</b> Transesophageal Echocardiogram (TEE)
		----- AND -----
		<b>Element:</b> 13705 Transcatheter Valve Therapy Reference Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TMVR
		<b>Element:</b> 13705 Transcatheter Valve Therapy Reference Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TMVr

<b>Element:</b> 13780	Effective Regurgitant Orifice Area Method of Assessment	<b>Technical Specification</b>
	<b>Coding Instruction:</b> Indicate the method used to assess the effective orifice area. If multiple methods are available, code the 3D planimetry method first, then PISA.	<b>Code:</b> 11200001437
	<b>Target Value:</b> The value on Follow-up	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> F_MV_EOA_MOA
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TMVR, TMVrpr)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13768 Effective Regurgitant Orifice Area
		<b>Operator:</b>
		<b>Value:</b> 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			11200001438	ACC NCDR
Proximal Isovelocity Surface Area			11200001439	ACC NCDR
Quantitative Doppler			11200001440	ACC NCDR
Other			100000351	ACC NCDR



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

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

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



Section: Follow-Up MV Imaging

Parent: Follow-Up Echocardiogram

<b>Element:</b> 13782      Systolic Anterior Motion Present	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate if systolic anterior motion of the mitral valve was present.	<b>Code:</b> 11200001481
<b>Target Value:</b> The value on Follow-up	<b>Code System Name:</b> ACC NCDR
	<b>Short Name:</b> F_SAM
	<b>Missing Data:</b> Report
	<b>Harvested:</b> Yes (TMVR)
	<b>Is Identifier:</b> No
	<b>Is Base Element:</b> No
	<b>Is Followup Element:</b> Yes
	<b>Data Type:</b> BL
	<b>Precision:</b>
	<b>Selection Type:</b> Single
	<b>Unit of Measure:</b>
	<b>Default Value:</b> Null
	<b>Usual Range:</b>
	<b>Valid Range:</b>
	<b>Data Source:</b> User
	<b>Parent/Child Validation</b>
	<b>Element:</b> 13492      Echocardiogram Performed
	<b>Operator:</b> Equal
	<b>Value:</b> Transthoracic Echo (TTE)
	<b>Element:</b> 13492      Echocardiogram Performed
	<b>Operator:</b> Equal
	<b>Value:</b> Transesophageal Echocardiogram (TEE)
	----- AND -----
	<b>Element:</b> 13705      Transcatheter Valve Therapy
	Reference Procedure Type
	<b>Operator:</b> Equal
	<b>Value:</b> TMVR



Section: Follow-Up MV Imaging

Parent: Follow-Up Echocardiogram

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

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

**Coding Instruction:** Indicate the left ventricular end systolic volume in ml.

**Target Value:** The value on Follow-up

**Technical Specification**

**Code:** 250931004

**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

<b>Element:</b> 14539      Left Ventricular End Systolic Volume Not Measured	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate if the left ventricular end systolic volume was not measured. <b>Target Value:</b> N/A	<b>Code:</b> 250931004 <b>Code System Name:</b> SNOMED CT <b>Short Name:</b> F_LVESV_NM <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TMVR, TMVrpr) <b>Is Identifier:</b> No <b>Is Base Element:</b> No <b>Is Followup Element:</b> Yes <b>Data Type:</b> BL <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
	<b>Parent/Child Validation</b> <b>Element:</b> 13492    Echocardiogram Performed <b>Operator:</b> Equal <b>Value:</b> Transthoracic Echo (TTE) <b>Element:</b> 13492    Echocardiogram Performed <b>Operator:</b> Equal <b>Value:</b> Transesophageal Echocardiogram (TEE) ----- AND ----- <b>Element:</b> 13705    Transcatheter Valve Therapy Reference Procedure Type <b>Operator:</b> Equal <b>Value:</b> TMVR <b>Element:</b> 13705    Transcatheter Valve Therapy Reference Procedure Type <b>Operator:</b> Equal <b>Value:</b> TMVr



Section: Follow-Up MV Imaging

Parent: Follow-Up Echocardiogram

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

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

<b>Element:</b> 13788	Left Atrial Volume Index	<b>Technical Specification</b>
	<b>Coding Instruction:</b> Indicate the left atrial volume index in mL/m2.	<b>Code:</b> 112000001427
	<b>Target Value:</b> The value on Follow-up	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> F_LAVolIndex
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TMVR, TMVrpr)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> PQ
		<b>Precision:</b> 3,0
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b> ml/m2
		<b>Default Value:</b> Null
		<b>Usual Range:</b> 10 - 90 ml/m2
		<b>Valid Range:</b> 1 - 250 ml/m2
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13492 Echocardiogram Performed
		<b>Operator:</b> Equal
		<b>Value:</b> Transthoracic Echo (TTE)
		<b>Element:</b> 13492 Echocardiogram Performed
		<b>Operator:</b> Equal
		<b>Value:</b> Transesophageal Echocardiogram (TEE)
		----- AND -----
		<b>Element:</b> 13705 Transcatheter Valve Therapy Reference Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TMVR
		<b>Element:</b> 13705 Transcatheter Valve Therapy Reference Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TMVr
		----- AND -----
		<b>Element:</b> 14582 Left Atrial Volume Index Not Measured
		<b>Operator:</b> Equal
		<b>Value:</b> 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

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

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

<b>Element:</b> 14528      Paravalvular Mitral Regurgitation Not Documented	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate if the severity of paravalvular mitral regurgitation was not documented. <b>Target Value:</b> N/A	<b>Code:</b> 112000001428 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> F_ParaMRND <b>Missing Data:</b> Report <b>Harvested:</b> Yes (BDS, TMVR) <b>Is Identifier:</b> No <b>Is Base Element:</b> No <b>Is Followup Element:</b> Yes <b>Data Type:</b> BL <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
	<b>Parent/Child Validation</b>
	<b>Element:</b> 13705      Transcatheter Valve Therapy Reference Procedure Type <b>Operator:</b> Equal <b>Value:</b> TMVR ----- AND -----
	<b>Element:</b> 13673      Mitral Regurgitation
	<b>Operator:</b> Equal <b>Value:</b> Mild
	<b>Element:</b> 13673      Mitral Regurgitation
	<b>Operator:</b> Equal <b>Value:</b> Moderate
	<b>Element:</b> 13673      Mitral Regurgitation
	<b>Operator:</b> Equal <b>Value:</b> Severe
	<b>Element:</b> 13673      Mitral Regurgitation
	<b>Operator:</b> Equal <b>Value:</b> Trace/Trivial
	<b>Element:</b> 13673      Mitral Regurgitation
	<b>Operator:</b> Equal <b>Value:</b> Moderate-Severe



Section: Follow-Up MV Regurgitation

Parent: Follow-Up Echocardiogram

<b>Element:</b> 13777	Central Mitral Regurgitation	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the severity of central mitral regurgitation.	<b>Code:</b> 11200001433
	Note: If trace/trivial is documented, code "none".	<b>Code System Name:</b> ACC NCDR
<b>Target Value:</b>	The highest value on follow up	<b>Short Name:</b> F_CentralMR
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TMVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13673 Mitral Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Mild
		<b>Element:</b> 13673 Mitral Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Moderate
		<b>Element:</b> 13673 Mitral Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Severe
		<b>Element:</b> 13673 Mitral Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Trace/Trivial
		<b>Element:</b> 13673 Mitral Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Moderate-Severe
		----- AND -----
		<b>Element:</b> 14491 Central Mitral Regurgitation Not Documented
		<b>Operator:</b> Equal
		<b>Value:</b> No (or Not Answered)
		----- AND -----
		<b>Element:</b> 13705 Transcatheter Valve Therapy Reference Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> 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			11200001910	ACC NCDR
Mild			11200000380	ACC NCDR
Moderate			11200000381	ACC NCDR
Severe			11200000382	ACC NCDR



Section: Follow-Up MV Regurgitation

Parent: Follow-Up Echocardiogram

<b>Element:</b> 14491	Central Mitral Regurgitation Not Documented	<b>Technical Specification</b>
	<b>Coding Instruction:</b> Indicate if central mitral regurgitation was not documented.	<b>Code:</b> 112000001433
	<b>Target Value:</b> N/A	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> F_CentralMRND
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TMVR)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> BL
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13705 Transcatheter Valve Therapy Reference Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TMVR
		----- AND -----
		<b>Element:</b> 13673 Mitral Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Mild
		<b>Element:</b> 13673 Mitral Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Moderate
		<b>Element:</b> 13673 Mitral Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Severe
		<b>Element:</b> 13673 Mitral Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Trace/Trivial
		<b>Element:</b> 13673 Mitral Regurgitation
		<b>Operator:</b> Equal
		<b>Value:</b> Moderate-Severe



Section: Follow-Up TV Imaging

Parent: Follow-Up Echocardiogram

**Element:** 14545      Tricuspid Valve Diastolic Gradient

**Coding Instruction:** Indicate the tricuspid valve diastolic gradient in mm Hg. This can also be called the TV inflow gradient.

**Target Value:** The highest value on follow up

Technical Specification	
<b>Code:</b>	11200001512
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	F_TV DGrad
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	No
<b>Is Followup Element:</b>	Yes
<b>Data Type:</b>	PQ
<b>Precision:</b>	2,0
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	mm[Hg]
<b>Default Value:</b>	Null
<b>Usual Range:</b>	1 - 15 mm[Hg]
<b>Valid Range:</b>	1 - 50 mm[Hg]
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b> 13492	Echocardiogram Performed
<b>Operator:</b>	Equal
<b>Value:</b>	Transthoracic Echo (TTE)
<b>Element:</b> 13492	Echocardiogram Performed
<b>Operator:</b>	Equal
<b>Value:</b>	Transesophageal Echocardiogram (TEE)
----- AND -----	
<b>Element:</b> 13705	Transcatheter Valve Therapy Reference Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	Tricuspid Valve Procedure
----- AND -----	
<b>Element:</b> 14546	Tricuspid Valve Diastolic Gradient Not Documented
<b>Operator:</b>	Equal
<b>Value:</b>	No (or Not Answered)



Section: Follow-Up TV Imaging

Parent: Follow-Up Echocardiogram

**Element:** 14546      Tricuspid Valve Diastolic Gradient Not Documented

**Coding Instruction:** Indicate if the tricuspid valve diastolic gradient was not documented.

**Target Value:** N/A

**Technical Specification**

**Code:** 11200001512

**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
<b>Coding Instruction:</b>	Indicate the tricuspid valve annulus size in mm. Document the size using end-diastolic, 4 chamber view is preferred (in mm).	<b>Code:</b> 11200001513 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> F_TVAnnulus <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> No <b>Is Followup Element:</b> Yes <b>Data Type:</b> PQ <b>Precision:</b> 2,0 <b>Selection Type:</b> Single <b>Unit of Measure:</b> mm <b>Default Value:</b> Null <b>Usual Range:</b> 15 - 60 mm <b>Valid Range:</b> 1 - 80 mm <b>Data Source:</b> User
<b>Target Value:</b>	The value on Follow-up	<b>Parent/Child Validation</b> <b>Element:</b> 13492    Echocardiogram Performed <b>Operator:</b> Equal <b>Value:</b> Transthoracic Echo (TTE) <b>Element:</b> 13492    Echocardiogram Performed <b>Operator:</b> Equal <b>Value:</b> Transesophageal Echocardiogram (TEE) ----- AND ----- <b>Element:</b> 13705    Transcatheter Valve Therapy Reference Procedure Type <b>Operator:</b> Equal <b>Value:</b> Tricuspid Valve Procedure ----- AND ----- <b>Element:</b> 14548    Tricuspid Valve Annulus Size Not Documented <b>Operator:</b> Equal <b>Value:</b> No (or Not Answered)



Section: Follow-Up TV Imaging

Parent: Follow-Up Echocardiogram

<b>Element:</b> 14548      Tricuspid Valve Annulus Size Not Documented	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate if the tricuspid valve annulus size was not documented. <b>Target Value:</b> N/A	<b>Code:</b> 11200001513 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> F_TVAnnulusND <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> No <b>Is Followup Element:</b> Yes <b>Data Type:</b> BL <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
	<b>Parent/Child Validation</b>
	<b>Element:</b> 13492      Echocardiogram Performed <b>Operator:</b> Equal <b>Value:</b> Transthoracic Echo (TTE) <b>Element:</b> 13492      Echocardiogram Performed <b>Operator:</b> Equal <b>Value:</b> Transesophageal Echocardiogram (TEE) ----- AND ----- <b>Element:</b> 13705      Transcatheter Valve Therapy Reference Procedure Type <b>Operator:</b> Equal <b>Value:</b> Tricuspid Valve Procedure



Section: Follow-Up TV Imaging

Parent: Follow-Up Echocardiogram

**Element:** 14549      End Diastolic Mid Right Ventricle Diameter

**Coding Instruction:** Indicate the end-diastolic mid right ventricular (RV) diameter, using the 4 chamber view (in cm).

**Target Value:** The value on Follow-up

Technical Specification	
<b>Code:</b>	112000001514
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	F_MidRVDia
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	No
<b>Is Followup Element:</b>	Yes
<b>Data Type:</b>	PQ
<b>Precision:</b>	2,1
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	cm
<b>Default Value:</b>	Null
<b>Usual Range:</b>	1.0 - 7.0 cm
<b>Valid Range:</b>	0.1 - 9.9 cm
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b> 13492	Echocardiogram Performed
<b>Operator:</b>	Equal
<b>Value:</b>	Transthoracic Echo (TTE)
<b>Element:</b> 13492	Echocardiogram Performed
<b>Operator:</b>	Equal
<b>Value:</b>	Transesophageal Echocardiogram (TEE)
----- AND -----	
<b>Element:</b> 13705	Transcatheter Valve Therapy Reference Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	Tricuspid Valve Procedure
----- AND -----	
<b>Element:</b> 14550	End Diastolic Mid Right Ventricle Diameter Not Documented
<b>Operator:</b>	Equal
<b>Value:</b>	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: 11200001514

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

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



Section: Follow-Up TV Imaging

Parent: Follow-Up Echocardiogram

**Element:** 14552      End Diastolic Basal Right Ventricle Diameter Not Documented

**Coding Instruction:** Indicate if the basal diastolic mid right ventricular (RV) diameter was not documented.

**Target Value:** N/A

**Technical Specification**

**Code:** 11200001515  
**Code System Name:** ACC NCDR  
**Short Name:** F\_BasalDiaND  
**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

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



Section: Follow-Up TV Imaging

Parent: Follow-Up Echocardiogram

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



Section: Follow-Up TV Regurgitation

Parent: Follow-Up Echocardiogram

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

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

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

**Target Value:** The highest value on follow up

**Technical Specification**

**Code:** 11200001428

**Code System Name:** ACC NCDR

**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			11200001910	ACC NCDR
Mild			11200000380	ACC NCDR
Moderate			11200000381	ACC NCDR
Severe			11200000382	ACC NCDR



Section: Follow-Up TV Regurgitation

Parent: Follow-Up Echocardiogram

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



Section: Follow-Up TV Regurgitation

Parent: Follow-Up Echocardiogram

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

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

<b>Element:</b> 13694      Valve Thrombosis	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate if there was findings of thrombus on the prosthetic valve.	<b>Code:</b> 11200001917
<b>Target Value:</b> The value on Follow-up	<b>Code System Name:</b> ACC NCDR
	<b>Short Name:</b> F_VThromb
	<b>Missing Data:</b> Report
	<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TTVP)
	<b>Is Identifier:</b> No
	<b>Is Base Element:</b> No
	<b>Is Followup Element:</b> Yes
	<b>Data Type:</b> BL
	<b>Precision:</b>
	<b>Selection Type:</b> Single
	<b>Unit of Measure:</b>
	<b>Default Value:</b> Null
	<b>Usual Range:</b>
	<b>Valid Range:</b>
	<b>Data Source:</b> User
	<b>Parent/Child Validation</b>
	<b>Element:</b> 13692      4D Computed Tomography Performed
	<b>Operator:</b> Equal
	<b>Value:</b> Yes

<b>Element:</b> 13695      Leaflet Dysfunction Noted	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate if leaflet dysfunction was noted. Leaflet dysfunction is evident when there is a finding of "stuck leaflets" on the prosthetic valve.	<b>Code:</b> 11200001409
<b>Target Value:</b> The value on Follow-up	<b>Code System Name:</b> ACC NCDR
	<b>Short Name:</b> F_LeafDysFx
	<b>Missing Data:</b> Report
	<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TTVP)
	<b>Is Identifier:</b> No
	<b>Is Base Element:</b> No
	<b>Is Followup Element:</b> Yes
	<b>Data Type:</b> BL
	<b>Precision:</b>
	<b>Selection Type:</b> Single
	<b>Unit of Measure:</b>
	<b>Default Value:</b> Null
	<b>Usual Range:</b>
	<b>Valid Range:</b>
	<b>Data Source:</b> User
	<b>Parent/Child Validation</b>
	<b>Element:</b> 13692      4D Computed Tomography Performed
	<b>Operator:</b> Equal
	<b>Value:</b> Yes



Section: Follow-Up Six Minute Walk Test

Parent: Follow Up

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

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

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

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



Section: Follow-Up KCCQ

Parent: Follow Up

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

<b>Element:</b> 13844	Kansas City Cardiomyopathy Questionnaire 12 Date	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the date the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) was performed.	<b>Code:</b> 112000001540
<b>Target Value:</b>	The value on Follow-up	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> F_KCCQ12_Date
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> DT
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
<b>Parent/Child Validation</b>		
<b>Element:</b> 13845	Kansas City Cardiomyopathy Questionnaire 12 Performed	
<b>Operator:</b>	Equal	
<b>Value:</b>	Yes	



Section: Follow-Up KCCQ

Parent: Follow Up

<p><b>Element:</b> 13847      Kansas City Cardiomyopathy Questionnaire 12 Question 1a</p> <p><b>Coding Instruction:</b> Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 1a.</p> <p style="padding-left: 40px;">Heart Failure Limitation - Showering/bathing</p> <p><b>Target Value:</b> The value on Follow-up</p>	<p><b>Technical Specification</b></p> <p><b>Code:</b> 11200001541</p> <p><b>Code System Name:</b> ACC NCDR</p> <p><b>Short Name:</b> F_KCCQ12_1a</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> No</p> <p><b>Is Followup Element:</b> Yes</p> <p><b>Data Type:</b> CD</p> <p><b>Precision:</b></p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p> <p><b>Parent/Child Validation</b></p> <p><b>Element:</b> 13845      Kansas City Cardiomyopathy Questionnaire 12 Performed</p> <p><b>Operator:</b> Equal</p> <p><b>Value:</b> Yes</p>
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**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

<b>Element:</b> 13869	Kansas City Cardiomyopathy Questionnaire 12 Question 1b	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 1b.  Heart Failure Limitation - Walking 1 block on level ground	<b>Code:</b> 11200001542 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> F_KCCQ12_1b <b>Missing Data:</b> Report <b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> No <b>Is Followup Element:</b> Yes <b>Data Type:</b> CD <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
<b>Target Value:</b>	The value on Follow-up	<b>Parent/Child Validation</b>
		<b>Element:</b> 13845 Kansas City Cardiomyopathy Questionnaire 12 Performed <b>Operator:</b> Equal <b>Value:</b> 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

<b>Element:</b> 13850	Kansas City Cardiomyopathy Questionnaire 12 Question 1c	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 1c.  Heart Failure Limitation - Hurrying or jogging	<b>Code:</b> 11200001543
<b>Target Value:</b>	The value on Follow-up	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> F_KCCQ12_1c
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13845 Kansas City Cardiomyopathy Questionnaire 12 Performed
		<b>Operator:</b> Equal
		<b>Value:</b> 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

<b>Element:</b> 13852	Kansas City Cardiomyopathy Questionnaire 12 Question 2	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 2.  Symptom Frequency - swelling in legs	<b>Code:</b> 11200001544
<b>Target Value:</b>	The value on Follow-up	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> F_KCCQ12_2
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13845 Kansas City Cardiomyopathy Questionnaire 12 Performed
		<b>Operator:</b> Equal
		<b>Value:</b> 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			11200001553	ACC NCDR
2 - Three or More Times Per Week But Not Everyday			11200001554	ACC NCDR
3 - One to Two Times Per Week			11200001555	ACC NCDR
4 - Less Than Once a Week			11200001556	ACC NCDR
5 - Never Over the Past Two Weeks			11200001557	ACC NCDR



Section: Follow-Up KCCQ

Parent: Follow Up

**Element:** 13854      Kansas City Cardiomyopathy Questionnaire 12 Question 3

**Coding Instruction:** Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 3.

Symptom Frequency - fatigue

**Target Value:** The value on Follow-up

Technical Specification	
<b>Code:</b>	112000001545
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	F_KCCQ12_3
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (BDS, TAVR, TMVR, TMVrpr, TTVp)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	No
<b>Is Followup Element:</b>	Yes
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b>	13845      Kansas City Cardiomyopathy Questionnaire 12 Performed
<b>Operator:</b>	Equal
<b>Value:</b>	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

<b>Element:</b> 13856	Kansas City Cardiomyopathy Questionnaire 12 Question 4	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 4.  Symptom Frequency - shortness of breath	<b>Code:</b> 112000001546 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> F_KCCQ12_4 <b>Missing Data:</b> Report <b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVp) <b>Is Identifier:</b> No <b>Is Base Element:</b> No <b>Is Followup Element:</b> Yes <b>Data Type:</b> CD <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
<b>Target Value:</b>	The value on Follow-up	<b>Parent/Child Validation</b>
		<b>Element:</b> 13845 Kansas City Cardiomyopathy Questionnaire 12 Performed <b>Operator:</b> Equal <b>Value:</b> 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      Kansas City Cardiomyopathy Questionnaire 12 Question 5

**Coding Instruction:** Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 5.

Symptom Frequency - sleep sitting up due to shortness of breath

**Target Value:** The value on Follow-up

Technical Specification	
<b>Code:</b>	112000001547
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	F_KCCQ12_5
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	No
<b>Is Followup Element:</b>	Yes
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b>	13845      Kansas City Cardiomyopathy Questionnaire 12 Performed
<b>Operator:</b>	Equal
<b>Value:</b>	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      Kansas City Cardiomyopathy Questionnaire 12 Question 6

**Coding Instruction:** Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 6.

Quality of Life - effect on enjoyment of life due to heart failure

**Target Value:** The value on Follow-up

Technical Specification	
<b>Code:</b>	112000001548
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	F_KCCQ12_6
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	No
<b>Is Followup Element:</b>	Yes
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b>	13845      Kansas City Cardiomyopathy Questionnaire 12 Performed
<b>Operator:</b>	Equal
<b>Value:</b>	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

<b>Element:</b> 13862	Kansas City Cardiomyopathy Questionnaire 12 Question 7	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 7.  Quality of life - remaining life with heart failure	<b>Code:</b> 11200001549
<b>Target Value:</b>	The value on Follow-up	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> F_KCCQ12_7
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13845 Kansas City Cardiomyopathy Questionnaire 12 Performed
		<b>Operator:</b> Equal
		<b>Value:</b> 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			11200001561	ACC NCDR
2 - Mostly Dissatisfied			11200001562	ACC NCDR
3 - Somewhat Satisfied			11200001563	ACC NCDR
4 - Mostly Satisfied			11200001564	ACC NCDR
5 - Completely Satisfied			11200001565	ACC NCDR



Section: Follow-Up KCCQ

Parent: Follow Up

<b>Element:</b> 13864	Kansas City Cardiomyopathy Questionnaire 12 Question 8a	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 8a.  Social limitation - hobbies, recreational activities	<b>Code:</b> 11200001550
<b>Target Value:</b>	The value on Follow-up	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> F_KCCQ12_8a
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 13845 Kansas City Cardiomyopathy Questionnaire 12 Performed
		<b>Operator:</b> Equal
		<b>Value:</b> 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			11200001566	ACC NCDR
2 - Limited Quite a Bit			11200001567	ACC NCDR
3 - Moderately Limited			100001170	ACC NCDR
4 - Slightly Limited			100014042	ACC NCDR
5 - Did Not Limit at All			11200001569	ACC NCDR
6 - Does Not Apply or Did Not Do for Other Reasons			11200001570	ACC NCDR



Section: Follow-Up KCCQ

Parent: Follow Up

<b>Element:</b> 13866	Kansas City Cardiomyopathy Questionnaire 12 Question 8b	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the patient's response to the Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Question 8b.  Social limitation - working or doing household chores	<b>Code:</b> 11200001551 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> F_KCCQ12_8b <b>Missing Data:</b> Report <b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> No <b>Is Followup Element:</b> Yes <b>Data Type:</b> CD <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
<b>Target Value:</b>	The value on Follow-up	<b>Parent/Child Validation</b>
		<b>Element:</b> 13845 Kansas City Cardiomyopathy Questionnaire 12 Performed <b>Operator:</b> Equal <b>Value:</b> 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			11200001566	ACC NCDR
2 - Limited Quite a Bit			11200001567	ACC NCDR
3 - Moderately Limited			100001170	ACC NCDR
4 - Slightly Limited			100014042	ACC NCDR
5 - Did Not Limit at All			11200001569	ACC NCDR
6 - Does Not Apply or Did Not Do for Other Reasons			11200001570	ACC NCDR



Section: Follow-Up KCCQ

Parent: Follow Up

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

<b>Element:</b> 14535	Follow-Up KCCQ Overall Summary Score	<b>Technical Specification</b>
<b>Coding Instruction:</b>	(Auto Calculated) This field is auto-populated by your application. Kansas City Cardiomyopathy Questionnaire (KCCQ-12) Overall Summary Score.  Note(s): The 12 patient responses are reduced into four summary scores (Physical Limitation Score, Symptom Frequency Score, Quality of Life Score, Social Limitation Score). The four summary scores are used to calculate the Overall Summary Score. For more information, please refer to the KCCQ-12 Scoring Instructions document provided by the STS/ACC TVT Registry.	<b>Code:</b> 112000001540 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> F_KCCQ12_Overall <b>Missing Data:</b> Report <b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP) <b>Is Identifier:</b> No <b>Is Base Element:</b> No <b>Is Followup Element:</b> Yes <b>Data Type:</b> NUM <b>Precision:</b> 5,2 <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> Computed
<b>Target Value:</b>	The value on Follow-up	<b>Parent/Child Validation</b>
		<b>Element:</b> 13845 Kansas City Cardiomyopathy Questionnaire 12 Performed <b>Operator:</b> Equal <b>Value:</b> Yes



Section: Follow-Up Events

Parent: Follow Up

Element: 12933	Follow-up Event Name	Technical Specification
<b>Coding Instruction:</b> Select from the list all of the clinical conditions, procedures, or re-admissions that occurred in the follow-up period		<b>Code:</b> 11200000795
<b>Target Value:</b> N/A		<b>Code System Name:</b> ACC NCDR
<b>Vendor Instruction:</b> A Follow-up - combination Name (12933), Occurred (14276) and Date (14277) - may only be entered/selected once		<b>Short Name:</b> F_Condition_Event
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single (Dynamic List)
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> 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.		11200001885	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)	11200000459	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)	11200001889	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).		11200001892	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).		11200001982	ACC NCDR



Section: Follow-Up Events		Parent: Follow Up		
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 <a href="https://www.ncbi.nlm.nih.gov/books/NBK44184/">https://www.ncbi.nlm.nih.gov/books/NBK44184/</a>	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
	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	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 evidence of myocardial ischemia with at least one of the following:	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**

- 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
	<p>The following criteria must be met for an event to be characterized as a heart failure readmission:</p> <ol style="list-style-type: none"> <li>1. Hospitalization <math>\geq</math>24 hours (including emergency room stay);</li> <li>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.);</li> <li>3. Intravenous (e.g., diuretic or vasoactive therapy) or invasive (e.g., ultrafiltration, IABP, mechanical assistance) treatment for heart failure.</li> </ol>			
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
	<p>Note: Please complete adjudication worksheet for every documented aortic valve reintervention, regardless of type of reintervention.</p>			
Reintervention - Mitral Valve	The patient returned to the operating room or cath lab for any mitral valve re-intervention.		112000001893	ACC NCDR
	<p>Note: Please complete adjudication worksheet for every documented mitral valve reintervention, regardless of type of reintervention.</p>			
Reintervention - Tricuspid Valve	The patient returned to the operating room or cath lab for any tricuspid valve re-intervention.		112000001820	ACC NCDR
	<p>Note: Please complete adjudication worksheet for every documented tricuspid valve reintervention, regardless of type of reintervention.</p>			



Section: Follow-Up Events		Parent: Follow Up	
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		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; 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		112000000467 ACC NCDR



Section: Follow-Up Events

Parent: Follow Up

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.

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

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



Section: Follow-Up Event Information

Parent: Follow Up

**Element:** 14385      **Adjudication Event**

**Coding Instruction:** Indicate the event being adjudicated.

**Target Value:** N/A

**Vendor Instruction:** An Adjudication - combination Event (14385) and Date (14386) - may only be entered/selected once

The Adjudication Event Date (14386) / Adjudication Event Code (14385) must match with Follow-Up Event Date (14277) / Follow-Up Event Code (12933)

**Technical Specification**

**Code:** 11200001816

**Code System Name:** ACC NCDR

**Short Name:** F\_AJ\_AdjudEvent

**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.		11200001885	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)	11200000459	ACC NCDR



Section: Follow-Up Event Information		Parent: Follow Up		
	<p>3. Bleeding causing hypovolemic shock or severe hypotension requiring vasopressors or surgery OR</p> <p>4. Overt source of bleeding with drop in hemoglobin of <math>\geq 5</math> g/dl or whole blood or packed red blood cells (RBCs) transfusion <math>\geq 4</math> U.</p>			
Bleeding - Major	<p>A major bleeding event, based on the 'Bleeding Academic Research Consortium' or BARC type 3a criteria is defined as :</p> <p>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</p> <p>AND</p> <p>2. Does not meet VARC criteria of life-threatening or disabling bleeding.</p>	Updated Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation (JACC, 2012, Vol 60, No 15)	11200001889	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).		11200001892	ACC NCDR
COVID-19 Positive	<p>The patient had a diagnosis of COVID-19, confirmed with a laboratory performed polymerase chain reaction (PCR) test.</p> <p>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.</p> <p>Code no if documentation ONLY included antibody testing (IgG).</p>		11200001982	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 <a href="https://www.ncbi.nlm.nih.gov/books/NBK44184/">https://www.ncbi.nlm.nih.gov/books/NBK44184/</a>	128053003	SNOMED CT
Device Embolization	The device became displaced from its initial implantation site so that it is no longer in its original position.		11200001324	ACC NCDR
Device Fracture	Partial or complete separation of any portion of the valve frame fractured into two or more parts.		11200001891	ACC NCDR
Device Migration	<p>Do not code this event when there was a planned bioprosthetic valve fracture (BVF) on a previously implanted bioprosthetic valve during the lab visit.</p> <p>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).</p> <p>Note: Code device embolization if the device is outside of the outflow tract.</p>		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)	11200001839	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.		11200001828	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	Updated Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation Clinical Trials	22298006	SNOMED CT



Section: Follow-Up Event Information

Parent: Follow Up

clinically significant myocardial necrosis. The MI can be (JACC, 2012, vol 60, No 15) 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.

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:



Section: Follow-Up Event Information

Parent: Follow Up

	<p>1. Hospitalization <math>\geq</math>24 hours (including emergency room stay);</p> <p>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.);</p> <p>3. Intravenous (e.g., diuretic or vasoactive therapy) or invasive (e.g., ultrafiltration, IABP, mechanical assistance) treatment for heart failure.</p>		
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, 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		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: <ol style="list-style-type: none"> <li>Any aortic dissection, aortic rupture, annulus rupture, left ventricle perforation, or new apical aneurysm/pseudo-aneurysm;</li> <li>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;</li> <li>Distal embolization (non-cerebral) from a vascular source requiring surgery or resulting in amputation or irreversible end-organ damage;</li> <li>The use of unplanned endovascular or surgical intervention associated with death, major bleeding, visceral ischemia or neurological impairment;</li> <li>Any new ischemia documented by patient symptoms, physical exam, and/or decreased or absent blood flow on lower extremity angiogram;</li> </ol>	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

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	<p>Minor vascular complications include any of the following:</p> <ol style="list-style-type: none"> <li>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;</li> <li>2. Distal embolization treated with embolectomy and/or thrombectomy and not resulting in amputation or irreversible end-organ damage;</li> <li>3. Any unplanned endovascular stenting or unplanned surgical intervention not meeting the criteria for a major vascular complication;</li> <li>4. Vascular repair or the need for vascular repair (via surgery, ultrasound-guided compression, transcatheter embolization, or stent-graft).</li> </ol> <p>*Refers to VARC bleeding definitions</p>	Updated Standardized Endpoint Definitions for Transcatheter Aortic Valve Implantation (JACC, 2012, Vol 60, No 15)	11200001823	ACC NCDR
Vascular Surgery or Intervention - Unplanned	<p>The patient required unplanned vascular surgery or intervention to correct a bleeding complication or vascular related complication.</p> <p>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.</p>		11200000467	ACC NCDR



Section: Follow-Up Event Information

Parent: Follow Up

<b>Element:</b> 14386	Adjudication Event Date	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the date the clinical event being adjudicated occurred.	<b>Code:</b> 11200001816
<b>Target Value:</b>	N/A	<b>Code System Name:</b> ACC NCDR
<b>Vendor Instruction:</b>	The Adjudication Event Date (14386) / Adjudication Event Code (14385) must match with Follow-Up Event Date (14277) / Follow-Up Event Code (12933)	<b>Short Name:</b> F_AJ_EventDate
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> DT
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14385 Adjudication Event
		<b>Operator:</b> Equal
		<b>Value:</b> Reintervention - Aortic Valve
		<b>Element:</b> 14385 Adjudication Event
		<b>Operator:</b> Equal
		<b>Value:</b> Stroke - Hemorrhagic
		<b>Element:</b> 14385 Adjudication Event
		<b>Operator:</b> Equal
		<b>Value:</b> Stroke - Ischemic
		<b>Element:</b> 14385 Adjudication Event
		<b>Operator:</b> Equal
		<b>Value:</b> Reintervention - Mitral Valve
		<b>Element:</b> 14385 Adjudication Event
		<b>Operator:</b> Equal
		<b>Value:</b> Readmission - Heart Failure
		<b>Element:</b> 14385 Adjudication Event
		<b>Operator:</b> Equal
		<b>Value:</b> Transient Ischemic Attack (TIA)
		<b>Element:</b> 14385 Adjudication Event
		<b>Operator:</b> Equal
		<b>Value:</b> Reintervention - Tricuspid Valve
		<b>Element:</b> 14385 Adjudication Event
		<b>Operator:</b> Equal
		<b>Value:</b> Stroke - Undetermined



Section: Follow-Up Event Information

Parent: Follow Up

**Element:** 14387      **Adjudication Status**

**Coding Instruction:** Indicate whether the patient was alive or deceased on the date the adjudication was performed.

**Target Value:** N/A

**Vendor Instruction:** Adjudication Status (14387) as 'Deceased' must be answered only once in follow-up episode.

**Technical Specification**

**Code:** 11200001817

**Code System Name:** ACC NCDR

**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

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

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



Section: Follow-Up Stroke or TIA

Parent: Follow-Up Event Information

<b>Element:</b> 14389	Symptom Onset Date	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate the date of symptom onset of the neurologic deficit. <b>Target Value:</b> N/A		<b>Code:</b> 11200000125 <b>Code System Name:</b> ACC NCDR <b>Short Name:</b> F_AJ_SxOnset <b>Missing Data:</b> Report <b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr) <b>Is Identifier:</b> No <b>Is Base Element:</b> No <b>Is Followup Element:</b> Yes <b>Data Type:</b> DT <b>Precision:</b> <b>Selection Type:</b> Single <b>Unit of Measure:</b> <b>Default Value:</b> Null <b>Usual Range:</b> <b>Valid Range:</b> <b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14385 Adjudication Event <b>Operator:</b> Equal <b>Value:</b> Transient Ischemic Attack (TIA) <b>Element:</b> 14385 Adjudication Event <b>Operator:</b> Equal <b>Value:</b> Stroke - Hemorrhagic <b>Element:</b> 14385 Adjudication Event <b>Operator:</b> Equal <b>Value:</b> Stroke - Ischemic <b>Element:</b> 14385 Adjudication Event <b>Operator:</b> Equal <b>Value:</b> Stroke - Undetermined ----- AND ----- <b>Element:</b> 13705 Transcatheter Valve Therapy Reference Procedure Type <b>Operator:</b> Equal <b>Value:</b> TAVR <b>Element:</b> 13705 Transcatheter Valve Therapy Reference Procedure Type <b>Operator:</b> Equal <b>Value:</b> TMVR <b>Element:</b> 13705 Transcatheter Valve Therapy Reference Procedure Type <b>Operator:</b> Equal <b>Value:</b> TMVr



Section: Follow-Up Stroke or TIA

Parent: Follow-Up Event Information

**Element:** 14390      Neurologic Deficit with Rapid Onset

**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.

**Target Value:** N/A

**Technical Specification**

**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

**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

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

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



Section: Follow-Up Stroke or TIA

Parent: Follow-Up Event Information

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

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

<b>Element:</b> 14395	Brain Imaging Findings	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the type of deficit found as a result of the neuroimaging study. Hemorrhage includes intraparenchymal, intraventricular and epidural hemorrhages.	<b>Code:</b> 11200001979
<b>Target Value:</b>	N/A	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> F_BI_Find
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
<b>Element:</b> 14393	Brain Imaging Performed	
<b>Operator:</b>	Equal	
<b>Value:</b>	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

<b>Element:</b> 14396	Event Related Sequelae	<b>Technical Specification</b>
	<b>Coding Instruction:</b> Indicate the sequelae related to the stroke or TIA.	<b>Code:</b> 362977000
	<b>Target Value:</b> N/A	<b>Code System Name:</b> SNOMED CT
		<b>Short Name:</b> F_Adj_ERS
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Multiple
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14391 Neurologic Deficit Clinical Presentation
		<b>Operator:</b> Equal
		<b>Value:</b> 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  
**Coding Instruction:** Indicate the discharge location after the stroke or TIA.  
**Target Value:** N/A

**Technical Specification**  
**Code:** 75528-0  
**Code System Name:** LOINC  
**Short Name:** F\_AJ\_DLAIE  
**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.  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



**Section: Follow-Up Stroke or TIA** **Parent: Follow-Up Event Information**

Other Discharge Location 100001249 ACC NCDR

<b>Element:</b> 14422 Patient Discharged to Prior Place of Living	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate if the patient was discharged to their prior place of living.	<b>Code:</b> 112000001882
<b>Target Value:</b> N/A	<b>Code System Name:</b> ACC NCDR
	<b>Short Name:</b> F_AJ_PriorLiving
	<b>Missing Data:</b> Report
	<b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr)
	<b>Is Identifier:</b> No
	<b>Is Base Element:</b> No
	<b>Is Followup Element:</b> Yes
	<b>Data Type:</b> BL
	<b>Precision:</b>
	<b>Selection Type:</b> Single
	<b>Unit of Measure:</b>
	<b>Default Value:</b> Null
	<b>Usual Range:</b>
	<b>Valid Range:</b>
	<b>Data Source:</b> User
	<b>Parent/Child Validation</b>
	<b>Element:</b> 14385 Adjudication Event
	<b>Operator:</b> Equal
	<b>Value:</b> Stroke - Hemorrhagic
	<b>Element:</b> 14385 Adjudication Event
	<b>Operator:</b> Equal
	<b>Value:</b> Stroke - Ischemic
	<b>Element:</b> 14385 Adjudication Event
	<b>Operator:</b> Equal
	<b>Value:</b> Stroke - Undetermined
	<b>Element:</b> 14385 Adjudication Event
	<b>Operator:</b> Equal
	<b>Value:</b> Transient Ischemic Attack (TIA)
	----- AND -----
	<b>Element:</b> 14387 Adjudication Status
	<b>Operator:</b> Equal
	<b>Value:</b> Alive
	----- AND -----
	<b>Element:</b> 13705 Transcatheter Valve Therapy
	Reference Procedure Type
	<b>Operator:</b> Equal
	<b>Value:</b> TAVR
	<b>Element:</b> 13705 Transcatheter Valve Therapy
	Reference Procedure Type
	<b>Operator:</b> Equal
	<b>Value:</b> TMVr
	<b>Element:</b> 13705 Transcatheter Valve Therapy
	Reference Procedure Type
	<b>Operator:</b> Equal
	<b>Value:</b> TMVR



Section: Follow-Up Stroke or TIA

Parent: Follow-Up Event Information

**Element:** 14397      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:** 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  
**Coding Instruction:** Indicate the type of aortic valve reintervention.  
**Target Value:** N/A

**Technical Specification**

**Code:** 11200001868  
**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			11200001872	ACC NCDR
Surgical Repair			11200001871	ACC NCDR
Transcatheter Replacement			11200001875	ACC NCDR
Balloon Valvuloplasty			11200001469	ACC NCDR
Leaflet Clip Procedure			11200001778	ACC NCDR
Paravalvular Leak Closure			11200001916	ACC NCDR
Other Transcatheter Intervention			11200001873	ACC NCDR



Section: Follow-Up AV Re-Intervention

Parent: Follow-Up Event Information

**Element:** 14399      Aortic Valve Reintervention Primary Indication

**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.

**Target Value:** N/A

Technical Specification	
<b>Code:</b>	11200001825
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	F_AJ_PrimaryInd
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (BDS, TAVR)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	No
<b>Is Followup Element:</b>	Yes
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b> 14385	Adjudication Event
<b>Operator:</b>	Equal
<b>Value:</b>	Reintervention - Aortic Valve
----- AND -----	
<b>Element:</b> 13705	Transcatheter Valve Therapy Reference Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	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			11200001324	ACC NCDR
Device Fracture			11200001891	ACC NCDR
Device Migration			370512004	SNOMED CT
Endocarditis			56819008	SNOMED CT
Paravalvular Leak			234184000	SNOMED CT
Device Thrombosis			11200001839	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	
<b>Code:</b>	112000001869
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	F_AJ_AISev
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (BDS, TAVR)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	No
<b>Is Followup Element:</b>	Yes
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b> 14385	Adjudication Event
<b>Operator:</b>	Equal
<b>Value:</b>	Reintervention - Aortic Valve
----- AND -----	
<b>Element:</b> 13705	Transcatheter Valve Therapy Reference Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	TAVR
----- AND -----	
<b>Element:</b> 14399	Aortic Valve Reintervention Primary Indication
<b>Operator:</b>	Equal
<b>Value:</b>	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

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

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

**Target Value:** N/A

Technical Specification	
<b>Code:</b>	112000001428
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	F_AJ_PVSev
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (TAVR)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	No
<b>Is Followup Element:</b>	Yes
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b> 14400	Aortic Valve Regurgitation
<b>Operator:</b>	Equal
<b>Value:</b>	Mild
<b>Element:</b> 14400	Aortic Valve Regurgitation
<b>Operator:</b>	Equal
<b>Value:</b>	Moderate
<b>Element:</b> 14400	Aortic Valve Regurgitation
<b>Operator:</b>	Equal
<b>Value:</b>	Severe
<b>Element:</b> 14400	Aortic Valve Regurgitation
<b>Operator:</b>	Equal
<b>Value:</b>	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: Follow-Up AV Re-Intervention

Parent: Follow-Up Event Information

**Element:** 14401 Central Aortic Regurgitation

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

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

**Target Value:** N/A

**Technical Specification**

**Code:** 11200001433  
**Code System Name:** ACC NCDR  
**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			11200001910	ACC NCDR
Mild			11200000380	ACC NCDR
Moderate			11200000381	ACC NCDR
Severe			11200000382	ACC NCDR

**Element:** 14402 Aortic Valve Area

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

**Target Value:** N/A

**Technical Specification**

**Code:** 11200001280  
**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

<b>Element:</b> 14404      Aortic Valve Mean Gradient	<b>Technical Specification</b>
<b>Coding Instruction:</b> Indicate the aortic valve mean gradient in mm Hg.	<b>Code:</b> 112000001398
<b>Target Value:</b> N/A	<b>Code System Name:</b> ACC NCDR
	<b>Short Name:</b> F_AJ_AVG
	<b>Missing Data:</b> Report
	<b>Harvested:</b> Yes (BDS, TAVR)
	<b>Is Identifier:</b> No
	<b>Is Base Element:</b> No
	<b>Is Followup Element:</b> Yes
	<b>Data Type:</b> PQ
	<b>Precision:</b> 3,0
	<b>Selection Type:</b> Single
	<b>Unit of Measure:</b> mm[Hg]
	<b>Default Value:</b> Null
	<b>Usual Range:</b> 5 - 50 mm[Hg]
	<b>Valid Range:</b> 0 - 200 mm[Hg]
	<b>Data Source:</b> User
	<b>Parent/Child Validation</b>
	<b>Element:</b> 14399      Aortic Valve Reintervention
	Primary Indication
	<b>Operator:</b> Equal
	<b>Value:</b> Stenosis



Section: Follow-Up MV Re-Intervention

Parent: Follow-Up Event Information

<b>Element:</b> 14405	Mitral Valve Reintervention Type	<b>Technical Specification</b>
	<b>Coding Instruction:</b> Indicate the type of mitral valve reintervention.	<b>Code:</b> 112000001868
	<b>Target Value:</b> N/A	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> F_AJ_MVReinType
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (BDS, TMVR, TMVrpr)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14385 Adjudication Event
		<b>Operator:</b> Equal
		<b>Value:</b> Reintervention - Mitral Valve
		----- AND -----
		<b>Element:</b> 13705 Transcatheter Valve Therapy Reference Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> TMVR
		<b>Element:</b> 13705 Transcatheter Valve Therapy Reference Procedure Type
		<b>Operator:</b> Equal
		<b>Value:</b> 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 Mitral Valve Reintervention Indication

**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.

**Target Value:** N/A

Technical Specification	
<b>Code:</b>	11200001825
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	F_AJ_MVRReintInd
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (BDS, TMVR, TMVrpr)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	No
<b>Is Followup Element:</b>	Yes
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b> 14385	Adjudication Event
<b>Operator:</b>	Equal
<b>Value:</b>	Reintervention - Mitral Valve
----- AND -----	
<b>Element:</b> 13705	Transcatheter Valve Therapy Reference Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	TMVR
<b>Element:</b> 13705	Transcatheter Valve Therapy Reference Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	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			11200001324	ACC NCDR
Device Fracture			11200001891	ACC NCDR
Device Migration			370512004	SNOMED CT
Endocarditis			56819008	SNOMED CT
Paravalvular Leak			234184000	SNOMED CT
Device Thrombosis			11200001839	ACC NCDR
Valve Injury			762610001	SNOMED CT
Other			10000351	ACC NCDR



Section: Follow-up Readmission

Parent: Follow-Up Event Information

**Element:** 14380 Hospitalization Greater Than or Equal to 24 Hours

**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.

**Target Value:** N/A

**Technical Specification**

**Code:** 1000142363  
**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      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.

**Target Value:** N/A

**Technical Specification**

**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

**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.

**Target Value:** N/A

Technical Specification	
<b>Code:</b>	112000001867
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	F_AJ_HFTreatment
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (TMVR, TMVrpr)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	No
<b>Is Followup Element:</b>	Yes
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b> 14385	Adjudication Event
<b>Operator:</b>	Equal
<b>Value:</b>	Readmission - Heart Failure
----- AND -----	
<b>Element:</b> 13705	Transcatheter Valve Therapy Reference Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	TMVR
<b>Element:</b> 13705	Transcatheter Valve Therapy Reference Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	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  
**Coding Instruction:** Indicate the type of tricuspid valve re-intervention.  
**Target Value:** N/A

**Technical Specification**  
**Code:** 112000001868  
**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

**Coding Instruction:** Indicate the primary indication for the tricuspid valve re-intervention.

**Target Value:** N/A

Technical Specification	
<b>Code:</b>	11200001825
<b>Code System Name:</b>	ACC NCDR
<b>Short Name:</b>	F_AJ_TVInd
<b>Missing Data:</b>	Report
<b>Harvested:</b>	Yes (TTVP)
<b>Is Identifier:</b>	No
<b>Is Base Element:</b>	No
<b>Is Followup Element:</b>	Yes
<b>Data Type:</b>	CD
<b>Precision:</b>	
<b>Selection Type:</b>	Single
<b>Unit of Measure:</b>	
<b>Default Value:</b>	Null
<b>Usual Range:</b>	
<b>Valid Range:</b>	
<b>Data Source:</b>	User
Parent/Child Validation	
<b>Element:</b> 14385	Adjudication Event
<b>Operator:</b>	Equal
<b>Value:</b>	Reintervention - Tricuspid Valve
----- AND -----	
<b>Element:</b> 13705	Transcatheter Valve Therapy Reference Procedure Type
<b>Operator:</b>	Equal
<b>Value:</b>	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			11200001324	ACC NCDR
Device Fracture			11200001891	ACC NCDR
Device Migration			370512004	SNOMED CT
Endocarditis			56819008	SNOMED CT
Paravalvular Leak			234184000	SNOMED CT
Device Thrombosis			11200001839	ACC NCDR
Valve Injury			762610001	SNOMED CT
Other			100000351	ACC NCDR



Section: Follow-Up Tricuspid Valve Re-Intervention

Parent: Follow-Up Event Information

<b>Element:</b> 14410	Tricuspid Valve Regurgitation	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate the severity of tricuspid valve regurgitation.	<b>Code:</b> 111287006
<b>Target Value:</b>	N/A	<b>Code System Name:</b> SNOMED CT
		<b>Short Name:</b> F_AJ_TR
		<b>Missing Data:</b> Report
		<b>Harvested:</b> Yes (TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> No
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> User
		<b>Parent/Child Validation</b>
		<b>Element:</b> 14409 Tricuspid Valve Reintervention Primary Indication
		<b>Operator:</b> Equal
		<b>Value:</b> 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
<p><b>Coding Instruction:</b> Indicate the assigned identification number associated with the medications the patient was prescribed or received.</p> <p>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.</p> <p><b>Target Value:</b> N/A</p>		<p><b>Code:</b> 100013057</p> <p><b>Code System Name:</b> ACC NCDR</p> <p><b>Short Name:</b> F_MedID</p> <p><b>Missing Data:</b> Report</p> <p><b>Harvested:</b> Yes (TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> No</p> <p><b>Is Followup Element:</b> Yes</p> <p><b>Data Type:</b> CD</p> <p><b>Precision:</b></p> <p><b>Selection Type:</b> Single (Dynamic List)</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> User</p>

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

**Coding Instruction:** Indicated if the medication is prescribed, not prescribed or is not prescribed for either a medical or patient reason

**Target Value:** The value on Follow-up

**Technical Specification**

**Code:** 432102000  
**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

**Coding Instruction:** Specify the total daily dose of the loop diuretic that was prescribed to the patient.

**Target Value:** The value on Follow-up

**Technical Specification**

**Code:** 112000001975  
**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**

<b>Element:</b> 1000	Participant ID	<b>Technical Specification</b>
	<p><b>Coding Instruction:</b> Indicate the participant ID of the submitting facility.</p> <p><b>Target Value:</b> N/A</p>	<p><b>Code:</b> 2.16.840.1.113883.3.3478.4.836</p> <p><b>Code System Name:</b> ACC NCDR</p> <p><b>Short Name:</b> PartID</p> <p><b>Missing Data:</b> Illegal</p> <p><b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> Yes</p> <p><b>Data Type:</b> NUM</p> <p><b>Precision:</b> 6</p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b> 1 - 999,999</p> <p><b>Data Source:</b> Automatic</p>

<b>Element:</b> 1010	Participant Name	<b>Technical Specification</b>
	<p><b>Coding Instruction:</b> Indicate the full name of the facility where the procedure was performed.</p> <p><b>Note(s):</b> Values should be full, official hospital names with no abbreviations or variations in spelling.</p> <p><b>Target Value:</b> N/A</p>	<p><b>Code:</b> 2.16.840.1.113883.3.3478.4.836</p> <p><b>Code System Name:</b> ACC NCDR</p> <p><b>Short Name:</b> PartName</p> <p><b>Missing Data:</b> Illegal</p> <p><b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> Yes</p> <p><b>Data Type:</b> ST</p> <p><b>Precision:</b> 100</p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> Automatic</p>

<b>Element:</b> 1020	Time Frame of Data Submission	<b>Technical Specification</b>
	<p><b>Coding Instruction:</b> Indicate the time frame of data included in the data submission. Format: YYYYQQ. e.g.,2016Q1</p> <p><b>Target Value:</b> N/A</p>	<p><b>Code:</b> 1.3.6.1.4.1.19376.1.4.1.6.5.45</p> <p><b>Code System Name:</b> ACC NCDR</p> <p><b>Short Name:</b> Timeframe</p> <p><b>Missing Data:</b> Illegal</p> <p><b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)</p> <p><b>Is Identifier:</b> No</p> <p><b>Is Base Element:</b> Yes</p> <p><b>Is Followup Element:</b> Yes</p> <p><b>Data Type:</b> ST</p> <p><b>Precision:</b> 6</p> <p><b>Selection Type:</b> Single</p> <p><b>Unit of Measure:</b></p> <p><b>Default Value:</b> Null</p> <p><b>Usual Range:</b></p> <p><b>Valid Range:</b></p> <p><b>Data Source:</b> Automatic</p>



Section: Administration

Parent: Root

Element: 1040	Transmission Number	Technical Specification
<b>Coding Instruction:</b>	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.	<b>Code:</b> 1.3.6.1.4.1.19376.1.4.1.6.5.45
<b>Target Value:</b>	N/A	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> Xmsnld
		<b>Missing Data:</b> Illegal
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> NUM
		<b>Precision:</b> 9
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b> 1 - 999,999,999
		<b>Data Source:</b> Automatic

Element: 1050	Vendor Identifier	Technical Specification
<b>Coding Instruction:</b>	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.	<b>Code:</b> 2.16.840.1.113883.3.3478.4.840
<b>Target Value:</b>	N/A	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> Vendorld
		<b>Missing Data:</b> Illegal
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> ST
		<b>Precision:</b> 15
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> Automatic

Element: 1060	Vendor Software Version	Technical Specification
<b>Coding Instruction:</b>	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.	<b>Code:</b> 2.16.840.1.113883.3.3478.4.847
<b>Target Value:</b>	N/A	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> VendorVer
		<b>Missing Data:</b> Illegal
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> ST
		<b>Precision:</b> 20
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> Automatic



**Section: Administration** **Parent: Root**

<b>Element:</b> 1070	Registry Identifier	<b>Technical Specification</b>
<b>Coding Instruction:</b>	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.	<b>Code:</b> 2.16.840.1.113883.3.3478.4.841
<b>Target Value:</b>	N/A	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> RegistryId
		<b>Missing Data:</b> Illegal
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> ST
		<b>Precision:</b> 30
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> ACC-NCDR-TVT-3.0
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> Automatic

<b>Element:</b> 1071	Registry Schema Version	<b>Technical Specification</b>
<b>Coding Instruction:</b>	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.	<b>Code:</b> 1000142438
<b>Target Value:</b>	N/A	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> SchemaVersion
		<b>Missing Data:</b> Illegal
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> NUM
		<b>Precision:</b> 3,1
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> 1
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> Automatic

<b>Element:</b> 1085	Submission Type	<b>Technical Specification</b>
<b>Coding Instruction:</b>	Indicate if the data contained in the harvest/data file contains either standard patient episode of care records (arrival date to discharge only) or if it contains patient follow-up records.  A transmission file with all episode of care records (from Arrival to Discharge only) is considered a 'Base Registry Record'.  A file with patient follow-up records (any follow-up assessments performed during the quarter selected) is considered a 'Follow-Up Record'.  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.	<b>Code:</b> 1000142423
<b>Target Value:</b>	N/A	<b>Code System Name:</b> ACC NCDR
		<b>Short Name:</b> SubmissionType
		<b>Missing Data:</b> Illegal
		<b>Harvested:</b> Yes (BDS, TAVR, TMVR, TMVrpr, TTVP)
		<b>Is Identifier:</b> No
		<b>Is Base Element:</b> Yes
		<b>Is Followup Element:</b> Yes
		<b>Data Type:</b> CD
		<b>Precision:</b>
		<b>Selection Type:</b> Single
		<b>Unit of Measure:</b>
		<b>Default Value:</b> Null
		<b>Usual Range:</b>
		<b>Valid Range:</b>
		<b>Data Source:</b> 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, 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, 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, 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	TVT Pathway (13171) IN (TAVR)



Value Set Member Constraints

Valve Replacement Surgery | 53059001, Mitral Valve Transcatheter Intervention | 112000001773, PCI | 415070008, Permanent Pacemaker | 449397007, Pulmonic Valve Procedure | 112000001769, Tricuspid Valve Procedure | 112000001941

Element: 12905

Procedure History Name

Value Set 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, 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, PCI   415070008, Permanent Pacemaker   449397007, Pulmonic Valve Procedure   112000001769, Tricuspid Valve Procedure   112000001941	TVT Pathway (13171) IN (TMVR)

Element: 12905

Procedure History Name

Value Set 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, 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, 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

Surgical Aortic 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, 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 ThermaFix Process   4402, Carpentier-Edwards Perimount RSR Pericardial Aortic Bioprosthesis   4403, Carpentier-Edwards Perimount Theon RSR Pericardial Aortic Bioprosthesis with ThermaFix Process   4404, Carpentier-Edwards Perimount Magna Pericardial Aortic Bioprosthesis   4405, Carpentier-Edwards Perimount Magna Pericardial Aortic Bioprosthesis with ThermaFix Process   4406, Carpentier-Edwards Perimount Magna Ease Pericardial Aortic Bioprosthesis with ThermaFix 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	TVT Pathway (13171) IN (TAVR)

Element: 14249

Transcatheter Aortic 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, CoreValve Evolut R   4503, SAPIEN 3   TVT Pathway (13171) IN (TAVR)   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	TVT Pathway (13171) IN (TAVR)



**Value Set Member Constraints**

(research study device) | 4540, Evolut FX | 5156, Portico Transcatheter Heart Valve | 5164, Portico Transcatheter Heart Valve | 5165, Portico Transcatheter Heart Valve | 5162, Portico Transcatheter Heart Valve | 5163, Portico | 5281, CoreValve Evolut | 5285, CoreValve | 5286, Sapien 3 Ultra Resilia | 5303

**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, Sovering 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	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 ThermaFix 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 ThermaFix Process   4428, Carpentier-Edwards PERIMOUNT Magna Mitral Bioprosthesis with Carpentier-Edwards ThermaFix Process   4429, Carpentier-Edwards PERIMOUNT Magna Mitral Ease Bioprosthesis with Carpentier-Edwards ThermaFix Process   4430, Carpentier-Edwards PERIMOUNT Magna Mitral Ease Pericardial Bioprosthesis with Carpentier-Edwards ThermaFix 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	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	TVT Pathway (13171) IN (TMVR)

**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



Value Set Member Constraints

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 ThermaFix Process   4407, Carpentier-Edwards Bioprosthetic Pulmonic Valved Conduit   4410, Carpentier-Edwards Classic Annuloplasty Ring with Durafluo Treatment   4416, Carpentier-Edwards Porcine Mitral Bioprosthesis   4424, Carpentier-Edwards PERIMOUNT Plus Mitral Bioprosthesis   4427, Carpentier-Edwards PERIMOUNT Theon Mitral Bioprosthesis with ThermaFix Process   4428, Carpentier-Edwards PERIMOUNT Magna Mitral Bioprosthesis with Carpentier-Edwards ThermaFix Process   4429, Carpentier-Edwards PERIMOUNT Magna Mitral Ease Pericardial Bioprosthesis with Carpentier-Edwards ThermaFix 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	TVT Pathway (13171) IN (Tricuspid Valve Procedure)

**Element:** 14301  
**Value Set Name:** TVT Procedure History Devices  
 Transcatheter Tricuspid 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 XT   4368, Melody Transcatheter Pulmonary Valve   4394, SAPIEN 3   4507, Evolut Pro Plus   4534	TVT Pathway (13171) IN (Tricuspid Valve Procedure)

**Element:** 14273  
**Value Set Name:** Transcatheter Valve Therapy Procedure  
 Transcatheter Valve Therapy Procedure Type  
 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  
**Value Set Name:** Transcatheter Valve Therapy Procedure  
 Transcatheter Valve Therapy Procedure Type  
 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  
**Value Set Name:** Transcatheter Valve Therapy Procedure  
 Transcatheter Valve Therapy Procedure Type  
 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  
**Value Set Name:** Transcatheter Valve Therapy Procedure  
 Transcatheter Valve Therapy Procedure Type  
 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  
**Value Set Name:** Transcatheter Valve Therapy Procedure Aborted Reasons  
 Reason for Aborting Procedure  
 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  
**Value Set Name:** Transcatheter Valve Therapy Procedure Aborted Reasons  
 Reason for Aborting Procedure  
 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  
**Value Set Name:** Reason for Conversion to Open Heart Surgery  
 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)



Value Set Member Constraints

**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, Transcatheter Valve Therapy Procedure Type (14273) IN (TAVR, TMVR, Tricuspid Valve 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	

**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 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, SAPIEN 3 Ultra   4341	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 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, SAPIEN 3 Ultra   4341	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	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	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 NTW   4544, MitraClip G4 Clip Delivery System XT   4545, MitraClip G4 Clip 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	Patient Enrolled in Research Study (3020) IN (Yes) 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 NTW   4544, MitraClip G4 Clip Delivery System XT   4545, MitraClip G4 Valve Therapy Procedure Type (14273) IN (TMVr) 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	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 XT   4368, CoreValve Evolut R   4503, SAPIEN 3   4507, Evolut PRO   4521, Evolut Pro Plus   4534, Evolut FX   5156, SAPIEN 3 Ultra   4341	Patient Enrolled in Research Study (3020) IN (No (or Not Answered)) AND Transcatheter Valve Therapy Procedure Type (14273) IN (TMVr)



Value Set Member Constraints

**Element:** 14484  
**Value Set Name:** TVT Procedure Devices  
Transcatheter Mitral Valve Replacement Device ID  
OID: 1.3.6.1.4.1.19376.1.4.1.6.5.746

Selections	Selection Dependency
Sapien XT   4368, CoreValve Evolut R   4503, SAPIEN 3   4507, Evolut PRO   4521, Evolut Pro Plus   4534, Evolut FX   5156, SAPIEN 3 Ultra   4341	Patient Enrolled in Research Study (3020) IN (Yes) AND Transcatheter Valve Therapy Procedure Type (14273) IN (TMVR)

**Element:** 14483  
**Value Set Name:** TVT Procedure Devices  
Transcatheter Tricuspid Valve Device ID  
OID: 1.3.6.1.4.1.19376.1.4.1.6.5.746

Selections	Selection Dependency
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 NTW   4544, MitraClip G4 Clip Delivery System XT   4545, MitraClip G4 Delivery System XTW   4546, MitraClip G4 Clip Delivery System NT   5151, 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, SAPIEN 3 Ultra   4341	Patient Enrolled in Research Study (3020) IN (No (or Not Answered)) AND Transcatheter Valve Therapy Procedure Type (14273) IN (Tricuspid Valve Procedure)

**Element:** 14483  
**Value Set Name:** TVT Procedure Devices  
Transcatheter Tricuspid Valve Device ID  
OID: 1.3.6.1.4.1.19376.1.4.1.6.5.746

Selections	Selection Dependency
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 NTW   4544, MitraClip G4 Clip Delivery System XT   4545, MitraClip G4 Delivery System XTW   4546, MitraClip G4 Clip Delivery System NT   5151, 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, SAPIEN 3 Ultra   4341	Patient Enrolled in Research Study (3020) IN (Yes) AND Transcatheter Valve Therapy Procedure Type (14273) IN (Tricuspid Valve Procedure)

**Element:** 12153  
**Value Set Name:** Intra or Post Procedure Events  
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, 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 (Tricuspid Valve Procedure) AND TVT Pathway (13171) IN (Tricuspid Valve Procedure)

**Element:** 12153  
**Value Set Name:** Intra or Post Procedure Events  
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 - 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:** 12153  
**Value Set Name:** Intra or Post Procedure Events  
Intra or Post Procedure Events  
OID: 1.3.6.1.4.1.19376.1.4.1.6.5.706



**Value Set Member Constraints**

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)

**Element:** 12933

Follow-up Event Name

**Value Set Name:** Follow Up Events

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,	Transcatheter Valve Therapy Reference Procedure Type (13705) IN (TMVr)



**Value Set Member Constraints**

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

**Element:** 12933

Follow-up Event Name

**Value Set Name:** Follow Up Events

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

Follow-up Event Name

**Value Set Name:** Follow Up Events

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, 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, Reintervention - Tricuspid Valve   112000001820, 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

Follow-up Event Name

**Value Set Name:** Follow Up Events

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

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 (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,	Transcatheter Valve Therapy Reference Procedure Type (13705) IN (TMVr, TMVR)



**Value Set Member Constraints**

Endocarditis | 56819008, Device Thrombosis | 112000001839, Valve Injury | 762610001, Other | 100000351

**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	PREPROCDX	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	LVEFDIM	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	SRKRRTIA	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
Center for medicare and medicaid services, MBI	2.16.840.1.113883.4.927
clinicaltrials.gov	2.16.840.1.113883.3.1077