

Section: Demographics

Parent: Root

Element: 2000	Last Name
Coding Instruction:	Indicate the patient's last name. Hyphenated names should be recorded with a hyphen.
Target Value:	The value on arrival at this facility
Element: 2010	First Name
Coding Instruction:	Indicate the patient's first name.
Target Value:	The value on arrival at this facility
Element: 2020	Middle Name
Coding Instruction:	Indicate the patient's middle name.
Note(s):	It is acceptable to specify the middle initial.
	If there is no middle name given, leave field blank.
	If there are multiple middle names, enter all of the middle names sequentially.
	If the name exceeds 50 characters, enter the first 50 letters only.
Target Value:	The value on arrival at this facility
Element: 2050	Birth Date
Coding Instruction:	Indicate the patient's date of birth.
Target Value:	The value on arrival at this facility
Element: 2030	SSN
Coding Instruction:	Indicate the patient's United States Social Security Number (SSN).
Note(s):	If the patient does not have a US Social Security Number (SSN), leave blank and check 'SSN NA'.
Target Value:	The value on arrival at this facility
Vendor Instruction:	SSN (2030) must be 9 numeric characters long
Element: 2031	SSN N/A
Coding Instruction:	Indicate if the patient does not have a United States Social Security Number (SSN).
Target Value:	The value on arrival at this facility
Element: 2040	Patient ID
Coding Instruction:	This number is automatically generated by the data collection software system used by your facility to abstract data
Note(s):	Once assigned to a patient at the participating facility, this number will never be changed or reassigned to a different patient. If the patient returns to the same participating facility or for follow up, they will receive this same unique patient identifier.
Target Value:	The value on arrival at this facility
Element: 2045	Other ID
Coding Instruction:	Indicate an optional patient identifier, such as medical record number, that can be associated with the patient.
Target Value:	N/A
Element: 2060	Sex
Coding Instruction:	Indicate the patient's sex at birth.
Target Value:	The value on arrival at this facility

Person Sex - 1.3.6.1.4.1.19376.1.4.1.6.5.19

Selection	Definition	Source	Code	Code System
Male			M	HL7 Administrative Gender

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Female		F HL7 Administrative Gender
Element: 2065	Patient Zip Code	
	Coding Instruction: Indicate the patient's United States Postal Service zip code of their primary residence. Note(s): If the patient does not have a U.S. residence, or is homeless, leave blank and check 'Zip Code NA'. Target Value: The value on arrival at this facility Vendor Instruction: Patient Zip Code (2065) must be 5 numeric characters long	
Element: 2066	Zip Code N/A	
	Coding Instruction: Indicate if the patient does not have a United States Postal Service zip code. Note(s): This includes patients who do not have a U.S. residence or are homeless. Target Value: The value on arrival at this facility	
Element: 2070	Race - White	
	Coding Instruction: Indicate if the patient is White as determined by the patient/family. Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one. Target Value: The value on arrival at this facility Supporting Definition: White Individuals with origins in any of the original peoples of Europe, including, for example, English, German, Irish, Italian, Polish, and Scottish. Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity	
Element: 2071	Race - Black/African American	
	Coding Instruction: Indicate if the patient is Black or African American as determined by the patient/family. Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one. Target Value: The value on arrival at this facility Supporting Definition: Black or African American Individuals with origins in any of the Black racial groups of Africa, including, for example, African American, Jamaican, Haitian, Nigerian, Ethiopian, and Somali. Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity	
Element: 2073	Race - American Indian/Alaskan Native	
	Coding Instruction: Indicate if the patient is American Indian or Alaskan Native as determined by the patient/family. Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one. Target Value: The value on arrival at this facility Supporting Definition: American Indian or Alaska Native Individuals with origins in any of the original peoples of North, Central, and South America, including, for example, Navajo Nation, Blackfeet Tribe of the Blackfeet Indian Reservation of Montana, Native Village of Barrow Inupiat Traditional Government, Nome Eskimo Community, Aztec, and Maya. Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity	
Element: 2072	Race - Asian	
	Coding Instruction: Indicate if the patient is Asian as determined by the patient/family. Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one. Target Value: The value on arrival at this facility Supporting Definition: Asian Individuals with origins in any of the original peoples of Central or East Asia, Southeast Asia, or South Asia, including, for example, Chinese, Asian Indian, Filipino, Vietnamese, Korean, and Japanese.	

Section: Demographics

Parent: Root

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

Element: 2074

Race - Native Hawaiian/Pacific Islander

Coding Instruction: Indicate if the patient is Native Hawaiian or Pacific Islander as determined by the patient/family.

Note(s):

If the patient has multiple race origins, specify them using the other race selections in addition to this one.

Target Value: The value on arrival at this facility

Supporting Definition: **Native Hawaiian or Pacific Islander**

Individuals with origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands, including, for example, Native Hawaiian, Samoan, Chamorro, Tongan, Fijian, and Marshallese.

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

Element: 2075

Race - Middle Eastern/North African

Coding Instruction: Indicate if the patient is Middle Eastern or North African as determined by the patient/family.

Note(s): If the patient has multiple race origins, specify them using the other race selections in addition to this one.

Target Value: The value on arrival at this facility

Supporting Definition: **Middle Eastern**

Individuals with origins in any of the original peoples of the Middle East or North Africa, including, for example, Lebanese, Iranian, Egyptian, Syrian, Iraqi, and Israeli.

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

Element: 2076

Hispanic or Latino Ethnicity

Coding Instruction: Indicate if the patient is of Hispanic or Latino ethnicity as determined by the patient/family.

Note(s):

If the patient has multiple hispanic or latin ethnicity, specify them using the other ethnicity selections in addition to this one.

Target Value: The value on arrival at this facility

Supporting Definition: **Hispanic or Latino**

Includes individuals of Mexican, Puerto Rican, Salvadoran, Cuban, Dominican, Guatemalan, and other Central or South American or Spanish culture or origin.

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

Section: Episode of Care

Parent: Root

Element: 2999 Episode Unique Key

Coding Instruction: Indicate the unique key associated with each patient episode record as assigned by the EMR/EHR or your software application.

Target Value: N/A

Element: 3000 Arrival Date

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

Target Value: N/A

Vendor Instruction: Arrival Date (3000) must be <= Discharge Date (10100)

Patient must be at least 18 years old at time of Arrival Date (3000)

Element: 3005 Health Insurance

Coding Instruction: Indicate if the patient has health insurance.

Target Value: The value on arrival at this facility

Vendor Instruction: Health Insurance (3005) must not be NULL

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

Payor Category - 1.3.6.1.4.1.19376.1.4.1.6.5.5

Selection	Definition	Source	Code	Code System
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
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
Medicare (Part A or B)	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 (Part C)	Medicare Part C (Medicare Advantage) – Part C is an alternative way to get Medicare coverage through private insurance companies instead of the federal government. Part C provides the same benefits as Medicare Part A and Part B, and may include additional benefits such as dental, vision, prescription drug and wellness programs coverage.	Medicare Advantage Plans (Part C) MedicareAdvantage.com	112000002025	ACC NCDR
Medicaid	Medicaid is a program administered at the state level, which provides medical assistance to the needy. Families with dependent children, the aged, blind, and disabled who are in financial need are eligible for Medicaid. It may be known by different names.		2	PHDSC
Military health care	Military Health care - Military health care includes TRICARE/CHAMPUS (Civilian Health and Medical Program of the Uniformed Services) and CHAMPVA (Civilian Health and Medical Program of the Department of Veterans Affairs), as well as care provided by the Department of Veterans Affairs (VA).		31	PHDSC
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-HIS facilities.		33	PHDSC
Non-US insurance	Non-US insurance refers to individuals with a payor		100000812	ACC NCDR

Section: Episode of Care

Parent: Root

that does not originate in the United States.

Element: 12846

Medicare Beneficiary Identifier

Coding Instruction: Indicate the patient's Medicare Beneficiary Identifier (MBI).

Note(s):

Enter the Medicare Beneficiary Identifier (MBI) for those patients insured by Medicare. Patients without Medicare will not have a MBI.

Target Value: The value on arrival at this facility

Supporting Definition: Medicare Beneficiary Identifier

The Medicare Access and CHIP Reauthorization Act (MACRA) of 2015, requires us to remove Social Security Numbers (SSNs) from all Medicare cards by April 2019. A new Medicare Beneficiary Identifier (MBI) will replace the SSN-based Health Insurance Claim Number (HICN) on the new Medicare cards for Medicare transactions like billing, eligibility status, and claim status.

Source: <https://www.cms.gov/Medicare/New-Medicare-Card/index.html>

Element: 3020

Patient Enrolled in Research Study

Coding Instruction: Indicate if the patient is enrolled in an ongoing ACC - NCDR research study related to this registry.

Target Value: Any occurrence between arrival at this facility and discharge

Supporting Definition: Patient Enrolled in Research Study

A clinical or research study is one in which participants are assigned to receive one or more interventions (or no intervention) so that researchers can evaluate the effects of the interventions on biomedical or health-related outcomes. The assignments are determined by the study protocol. Participants may receive diagnostic, therapeutic, or other types of interventions.

Source: Clinicaltrials.gov Glossary of Common Site Terms retrieved from <http://clinicaltrials.gov/ct2/about-studies/glossary#interventional-study>

Section: Research Study

Parent: Episode of Care

Element: 3025

Research Study Name

Coding Instruction: Indicate the research study name as provided by the research study protocol.

Note(s):

If the patient is in more than one research study, list each separately.

Target Value: N/A

Vendor Instruction: A Research Study Name (3025) may only be entered/selected once

Research Study Name (3025) must be a valid study name for Renal Denervation Module

Element: 3030

Research Study Patient ID

Coding Instruction: Indicate the research study patient identification number as assigned by the research protocol.

Note(s):

If the patient is in more than one research study, list each separately.

Target Value: N/A

Section: History and Risk Factors

Parent: Root

Element: 6000 Height

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

Target Value: The last value prior to the start of the first procedure

Element: 6005 Weight

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

Target Value: The last value prior to the start of the first procedure

Element: 4625 Tobacco Use

Coding Instruction: Indicate the frequency that the patient uses tobacco.

Note(s):

1. Consider use of any tobacco product as equivalent to a cigarette for referenced definitions.
2. Electronic devices (e.g. e-cigarettes, vaping pens, etc.) that only deliver a nicotine-containing substance are not considered when coding this data element.

Target Value: The value on arrival at this facility

Tobacco Use - 1.3.6.1.4.1.19376.1.4.1.6.5.427

Selection	Definition	Source	Code	Code System
Never	A person who has not smoked 100 cigarettes (5 packs) in his or her lifetime.	The Office of the National Coordinator for Health Information Technology; 2015 Edition Smoking status criterion (§ 170.315(a)(11))	266919005	SNOMED CT
Former	A person who does not currently smoke tobacco but has smoked at least 100 cigarettes in his or her lifetime.	The Office of the National Coordinator for Health Information Technology; 2015 Edition Smoking status criterion (§ 170.315(a)(11))	8517006	SNOMED CT
Current	A person who reports currently smoking tobacco every day or on some days.	The Office of the National Coordinator for Health Information Technology; 2015 Edition Smoking status criterion (§170.315(a)(11))	112000003599	ACC NCDR
Unknown	A person whose current and prior smoking status is not known.	The Office of the National Coordinator for Health Information Technology; 2015 Edition Smoking status criterion (§ 170.315(a)(11))	266927001	SNOMED CT

Section: Condition History

Parent: History and Risk Factors

Element: 12903

Condition History Name

Coding Instruction: The medical conditions listed in this field are controlled by the Condition History Master file. This file is maintained by the NCDR and will be made available for downloading and importing/updating into your application.

Target Value: N/A

Vendor Instruction: Condition History Name (12903) must not be duplicated in an episode

Condition Histories - 1.3.6.1.4.1.19376.1.4.1.6.5.927

Selection	Definition	Source	Code	Code System
Atrial fibrillation/flutter	Select if there is documentation / diagnosis of atrial fibrillation or atrial flutter.		195080001	SNOMED CT
Coronary artery disease	Select if there is documentation of coronary artery disease (CAD) or a history of any of the following: Coronary artery stenosis ≥50% documented by cardiac catheterization or other direct coronary imaging modality Previous coronary artery bypass graft (CABG) surgery Previous percutaneous coronary intervention (PCI) Previous myocardial infarction (MI)		53741008	SNOMED CT
Chronic kidney disease	Select only if there is a documented diagnosis of chronic kidney disease (CKD). This may also be documented as chronic renal insufficiency (CRI) or chronic renal failure (CRF).		709044004	SNOMED CT
Diabetes mellitus	Select if there is documentation of a clinical diagnosis of diabetes.		73211009	SNOMED CT
Heart failure	Select if there is documentation of a clinical diagnosis of heart failure.		84114007	SNOMED CT
Obstructive sleep apnea	Select if there is documentation of a clinical diagnosis of obstructive or central sleep apnea. Do not capture suspected sleep apnea or sleep apnea reported by family members. Do not capture sleep apnea that has been surgically corrected. CPAP or BiPAP therapy is not required.		78275009	SNOMED CT
Primary aldosteronism	Select if there is documentation / diagnosis of primary aldosteronism (also known as Conn's syndrome). Primary aldosteronism is a condition that occurs where adrenal glands make too much aldosterone.		190507007	SNOMED CT
Renal artery stenosis	Select if there is documentation / diagnosis of renal artery stenosis or a history of any of the following: Renal artery stent Renal artery infarct Renal artery imaging results of ≥50% stenosis.		302233006	SNOMED CT
Stroke	Select if there is documentation of a clinical diagnosis of stroke.		100000977	ACC NCDR
Transient ischemic attack (TIA)	Select transient ischemic attack (TIA) if documentation of a transient episode of focal neurological dysfunction is present. A transient ischemic attack is defined as an acute episode of brain, spinal cord, or retinal ischemia without infarction, resulting in neurological symptoms that resolve within 24 hours.		266257000	SNOMED CT

Element: 15510

Condition History Occurrence

Coding Instruction: Indicate if the patient has or has not had a clinical diagnosis of the indicated medical condition.

Target Value: Any occurrence between birth and arrival at this facility

Vendor Instruction: Condition History Occurrence (15510) cannot be Null when a Condition History Name (12903) is selected

Section: Condition History Details
Parent: History and Risk Factors

Element: 16347 Prior Renal Artery Stent

Coding Instruction: Indicate if the patient had a prior renal artery stent.

Target Value: Any occurrence between birth and arrival at this facility

Element: 16348 Renal Artery Stent Location

Coding Instruction: Indicate the location of the renal artery stent.

Target Value: Any occurrence between birth and arrival at this facility

Renal Artery Stent Location - 1.3.6.1.4.1.19376.1.4.1.6.5.1168

Selection	Definition	Source	Code	Code System
Left	The patient had a stent previously implanted in the left renal artery.		112000004368	ACC NCDR
Right	The patient had a stent previously implanted in the right renal artery.		112000004369	ACC NCDR
Both	The patient had a stent previously implanted in both the left and right renal arteries.		112000003646	ACC NCDR
Not documented			112000001830	ACC NCDR

Section: Pre-Procedure Clinical Data

Parent: Root

Element: 16370	Hemoglobin
Coding Instruction:	Indicate the hemoglobin (Hgb) value in g/dL.
Target Value:	The last value within 90 days of procedure start
Supporting Definition:	Hemoglobin Hemoglobin (Hb or Hgb) is the iron-containing oxygen-transport metalloprotein in the red blood cells. It carries oxygen from the lungs to the rest of the body (i.e. the tissues) where it releases the oxygen to burn nutrients and provide energy. Hemoglobin concentration measurement is among the most commonly performed blood tests, usually as part of a complete blood count. If the concentration is below normal, this is called anemia. Anemias are classified by the size of red blood cells: "microcytic" if red cells are small, "macrocytic" if they are large, and "normocytic" if otherwise. Dehydration or hyperhydration can greatly influence measured hemoglobin levels. Source: http://s.details.loinc.org/LOINC/718-7.html?sections=Simple
Element: 12239	Hemoglobin Not Drawn
Coding Instruction:	Indicate if a pre-procedure hemoglobin was not collected.
Target Value:	N/A
Element: 16374	Platelets
Coding Instruction:	Indicate the pre-procedure platelet count in platelets per microliter.
Target Value:	The last value within 90 days of procedure start
Element: 13214	Platelet Count Not Drawn
Coding Instruction:	Indicate if a platelet count was not drawn prior to the procedure.
Target Value:	N/A
Element: 16375	Potassium
Coding Instruction:	Indicate the potassium value in mEq/L.
Target Value:	The last value within 90 days of procedure start
Supporting Definition:	Potassium Potassium (symbol K from Latin:kaliūm) is a key chemical element involved in neuron function and influencing osmotic balance between cells and interstitial fluid. Depletion in potassium levels results in deficient fluid and electrolyte balance in the body as well as various nervous and cardiac dysfunctions. Studies suggest diets high in potassium can reduce the risk of hypertension and possibly stroke. Foods rich in potassium include parsley, dried apricots, potatoes, bananas, avocados, soybeans, and bran, as well as most fruits, vegetables, meat and fish. Overall, clear cases of potassium deficiency are rare in healthy individuals. Source: http://s.details.loinc.org/LOINC/75940-7.html?sections=Simple
Element: 16345	Potassium Not Drawn
Coding Instruction:	Indicate if the potassium value was not drawn.
Target Value:	N/A
Element: 16371	Creatinine
Coding Instruction:	Indicate the creatinine (Cr) level in mg/dL.
Target Value:	The last value within 90 days of procedure start
Supporting Definition:	Creatinine Creatinine or creatine anhydride, is a breakdown product of creatine phosphate in muscle. The loss of water molecule from creatine results in the formation of creatinine. It is transferred to the kidneys by blood plasma, whereupon it is eliminated by glomerular filtration and partial tubular excretion. Creatinine is usually produced at a fairly constant rate and measuring its serum level is a simple test. A rise in blood creatinine levels is observed only with marked damage to functioning nephrons; therefore this test is not suitable for detecting early kidney disease. Creatine and creatinine are metabolized in the kidneys, muscle, liver and pancreas. Source: http://s.details.loinc.org/LOINC/2160-0.html?sections=Simple
Element: 6051	Creatinine Not Drawn
Coding Instruction:	Indicate if a creatinine level was not drawn.
Target Value:	N/A
Element: 16389	Glucose

Section: Pre-Procedure Clinical Data		Parent: Root
	Coding Instruction: Indicate the serum glucose value, in mg/dL.	
	Target Value: The last value within 90 days of procedure start	
Element: 16343	Glucose Not Drawn	
	Coding Instruction: Indicate if the glucose value was not drawn.	
	Target Value: N/A	
Element: 16376	Hemoglobin A1c	
	Coding Instruction: Indicate the hemoglobin A1c value, in %.	
	Target Value: The last value within 12 months of procedure start	
Element: 13006	Hemoglobin A1c Not Drawn	
	Coding Instruction: Indicate if a hemoglobin A1C was not collected.	
	Target Value: N/A	
Element: 16416	Albumin	
	Coding Instruction: Indicate the total albumin, in g/dL.	
	Target Value: The last value within 12 months of procedure start	
Element: 16417	Albumin Not Drawn	
	Coding Instruction: Indicate if a total albumin was not collected.	
	Target Value: N/A	
Element: 16377	Plasma Renin Activity	
	Coding Instruction: Indicate the plasma renin activity, in ng/mL/hr.	
	Target Value: The last value within 12 months of procedure start	
Element: 16346	Plasma Renin Activity Not Drawn	
	Coding Instruction: Indicate if the plasma renin activity level was not drawn.	
	Target Value: N/A	
Element: 16378	Aldosterone	
	Coding Instruction: Indicate the aldosterone level, in ng/dL.	
	Target Value: The last value within 12 months of procedure start	
Element: 16342	Aldosterone Not Drawn	
	Coding Instruction: Indicate if the aldosterone level was not drawn.	
	Target Value: N/A	
Element: 16372	Total Cholesterol	
	Coding Instruction: Indicate the cholesterol level in mg/dL.	
	Target Value: The last value within 12 months of procedure start	
	Supporting Definition: Cholesterol	
	Cholesterol is a lipidic, waxy alcohol found in the cell membranes and transported in the blood plasma of all animals. It is an essential component of mammalian cell membranes where it establishes proper membrane permeability and fluidity. Cholesterol is the principal sterol synthesized by animals, but small quantities are synthesized in other eukaryotes, such as plants and fungi. It is almost completely absent among prokaryotes, which include bacteria. Cholesterol is classified as a sterol.	
	Source: Copyright © 2015 Regenstrief Institute, Inc. All Rights Reserved. To the extent included herein, the LOINC table and LOINC codes are copyright © 1995-2015, Regenstrief Institute, Inc. and the Logical Observation Identifiers Names and Codes (LOINC) Committee.	

Section: Pre-Procedure Clinical Data		Parent: Root
Element: 15539	Total Cholesterol Not Drawn	
	Coding Instruction: Indicate if the total cholesterol was not drawn. Target Value: N/A	
Element: 16373	High Density Lipoprotein	
	Coding Instruction: Indicate the high-density lipoprotein (HDL) level in mg/dL. Target Value: The last value within 12 months of procedure start Supporting Definition: High-density lipoprotein High-density lipoprotein (HDL) is one of the five major groups of lipoproteins (chylomicrons, VLDL, IDL, LDL, HDL) which enable lipids like cholesterol and triglycerides to be transported within the water based blood stream. In healthy individuals, about thirty percent of blood cholesterol is carried by HDL. High levels of cholesterol in the blood have been linked to damage to arteries and cardiovascular disease. Source: Regenstrief Institute, Inc. All Rights Reserved. To the extent included herein, the LOINC table and LOINC codes are copyright © 1995-2015, Regenstrief Institute, Inc. and the Logical Observation Identifiers Names and Codes (LOINC) Committee. Copyright: Text is available under the Creative Commons Attribution/Share-Alike License. See http://creativecommons.org/licenses/by-sa/3.0/ for details.	
Element: 15540	High-density Lipoprotein Not Drawn	
	Coding Instruction: Indicate if the high-density lipoprotein (HDL) cholesterol was not drawn. Target Value: N/A	
Element: 16379	LDL Cholesterol	
	Coding Instruction: Indicate the low-density lipoprotein (LDL) cholesterol value in mg/dL. Target Value: The last value within 12 months of procedure start Supporting Definition: Cholesterol in LDL A small dense LDL fraction, reported as part of LDL Subclasses panel. Seven LDL subclasses and 3 mid-band fractions can be determined by linear polyacrylamide gel electrophoresis and densitometric scanning. Source: Regenstrief Institute	
Element: 16344	Low Density Lipoprotein Not Drawn	
	Coding Instruction: Indicate if the low density lipoprotein was not drawn. Target Value: N/A	

Section: Pre-Procedure Imaging**Parent: Root****Element: 5111** LVEF Assessed (Pre-Procedure)**Coding Instruction:** Indicate if the left ventricular ejection fraction was assessed.**Target Value:** Any occurrence between 6 months prior to procedure and the start of the current procedure**Element: 5116** LVEF % (Pre-Procedure)**Coding Instruction:** Indicate the best estimate of the most recent left ventricular ejection fraction.

Note(s):

Enter a percentage in the range of 01 - 99. If a percentage range was reported, report the lowest number of the range (i.e. 50-55%, is reported as 50%).

If only a descriptive value is reported (i.e. Normal), enter the corresponding percentage value from the list below:

Normal = 60%

Good function = 50%

Mildly reduced = 45%

Fair function = 40%

Moderately reduced = 30%

Poor function = 25%

Severely reduced = 20%

The Left Ventricular Ejection Fraction can be assessed via invasive (i.e. LV gram) or non-invasive (i.e. Echo, MR, CT or Nuclear) testing.

Target Value: The last value between 6 months prior to procedure and the start of the current procedure

Section: Blood Pressure - Ambulatory

Parent: Blood Pressure

Element: 16456 24 Hour Ambulatory Blood Pressure Monitor Available

Coding Instruction: Indicate if results from a 24-hour ambulatory blood pressure monitor are available. A 24-hour ambulatory blood pressure monitor is a portable device worn by the patient that automatically measures blood pressure at regular intervals.

Target Value: The last value within 90 days of procedure start

Element: 16463 Ambulatory Blood Pressure Monitor Start Date

Coding Instruction: Indicate the date the twenty-four-hour ambulatory blood pressure monitoring was initiated.

Target Value: The last value within 90 days of procedure start

Section: Blood Pressure - Ambulatory Daytime**Parent: Blood Pressure - Ambulatory****Element:** 16457 Average Daytime Systolic Blood Pressure From Ambulatory Blood Pressure Monitor**Coding Instruction:** Indicate the average daytime systolic blood pressure from the twenty-four-hour ambulatory blood pressure monitor.

Note 1: The 24-hour ambulatory monitor captures the average daytime blood pressure beginning 30-60" after waking (prior to exercise, caffeine, or nicotine) until the patient goes to sleep.

Note 2: For shift workers, the monitor must be programmed appropriately to capture the daytime blood pressure after waking.

Target Value: The last value within 90 days of procedure start**Element:** 16458 Average Daytime Diastolic Blood Pressure From Ambulatory Blood Pressure Monitor**Coding Instruction:** Indicate the average daytime diastolic blood pressure from the twenty-four-hour ambulatory blood pressure monitor.

Note 1: The 24-hour ambulatory monitor captures the average daytime blood pressure beginning 30-60" after waking (prior to exercise, caffeine, or nicotine) until the patient goes to sleep.

Note 2: For shift workers, the monitor must be programmed appropriately to capture the daytime blood pressure after waking.

Target Value: The last value within 90 days of procedure start

Section: Blood Pressure - Ambulatory Nocturnal**Parent: Blood Pressure - Ambulatory****Element:** 16459 Average Nocturnal Systolic Blood Pressure From Ambulatory Blood Pressure Monitor**Coding Instruction:** Indicate the average nocturnal systolic blood pressure from the twenty-four-hour ambulatory blood pressure monitor.

Note 1: The 24-hour ambulatory monitor captures the average nocturnal blood pressure beginning when the patient goes to sleep.

Note 2: For shift workers, the monitor must be programmed appropriately to capture the nocturnal blood pressure while sleeping.

Target Value: The last value within 90 days of procedure start**Element:** 16460 Average Nocturnal Diastolic Blood Pressure From Ambulatory Blood Pressure Monitor**Coding Instruction:** Indicate the average nocturnal diastolic blood pressure from the twenty-four-hour ambulatory blood pressure monitor.

Note 1: The 24-hour ambulatory monitor captures the average nocturnal blood pressure beginning when the patient goes to sleep.

Note 2: For shift workers, the monitor must be programmed appropriately to capture the nocturnal blood pressure while sleeping.

Target Value: The last value within 90 days of procedure start

Section: Blood Pressure - Ambulatory Overall

Parent: Blood Pressure - Ambulatory

Element: 16461 Average Overall Systolic Blood Pressure From Ambulatory Blood Pressure Monitor

Coding Instruction: Indicate the average overall systolic blood pressure from the twenty four hour ambulatory blood pressure monitor.

Target Value: The last value within 90 days of procedure start

Element: 16462 Average Overall Diastolic Blood Pressure From Ambulatory Blood Pressure Monitor

Coding Instruction: Indicate the average overall diastolic blood pressure from the twenty four hour ambulatory blood pressure monitor.

Target Value: The last value within 90 days of procedure start

Section: Blood Pressure - Office
Parent: Blood Pressure

Element: 16464	Office Blood Pressure and Heart Rate Data Available
Coding Instruction:	Indicate if office blood pressure and heart rate readings are available.
	Note: If both a standard blood pressure cuff and an automated office blood pressure reading is available (AOBP), code the AOBP reading.
Target Value:	The last value within 90 days of procedure start
Element: 16465	Office Blood Pressure Date
Coding Instruction:	Indicate the date the blood pressure reading was obtained in the physician's office.
Target Value:	The last value within 90 days of procedure start
Element: 16466	Office Systolic Blood Pressure
Coding Instruction:	Indicate the office systolic blood pressure reading.
	Note(s): Use data from the most recent office visit prior to the procedure. Do not use inpatient vital signs or emergency department triage vitals for this field unless no other documentation is present.
	Standard blood pressure is measured manually or with a single automated cuff reading taken by clinic staff. AOBP uses a device that takes multiple automated readings while the patient rests quietly, then reports an average blood pressure.
	If both a standard blood pressure cuff and an automated office blood pressure reading is available (AOBP), code the average AOBP reading.
Target Value:	The last value within 90 days of procedure start
Element: 16467	Office Diastolic Blood Pressure
Coding Instruction:	Indicate the office diastolic blood pressure reading.
	Note(s): Use data from the most recent office visit prior to the procedure. Do not use inpatient vital signs or emergency department triage vitals for this field unless no other documentation is present.
	Standard blood pressure is measured manually or with a single automated cuff reading taken by clinic staff. AOBP uses a device that takes multiple automated readings while the patient rests quietly, then reports an average blood pressure.
	If both a standard blood pressure cuff and an automated office blood pressure reading is available (AOBP), code the average AOBP reading.
Target Value:	The last value within 90 days of procedure start
Element: 16508	Automated Office Blood Pressure
Coding Instruction:	Indicate whether the blood pressure measurement was obtained using an Automated Office Blood Pressure (AOBP).
	Note(s): If both a standard blood pressure cuff reading and an automated office blood pressure (AOBP) reading are available, code the average AOBP reading.
Target Value:	The last value within 90 days of procedure start
Element: 16468	Office Heart Rate
Coding Instruction:	Indicate the office heart rate reading.
Target Value:	The last value within 90 days of procedure start

Section: Blood Pressure - Home

Parent: Blood Pressure

Element: 16433

Home Blood Pressure Available

Coding Instruction: Indicate if home blood pressure data is available for as many days as available (up to 7 consecutive days).

Target Value: Any occurrence between 3 months before arrival at this facility and arrival at this facility

Section: Blood Pressure - Seven Day

Parent: Blood Pressure - Home

Element: 16483 Home Blood Pressure Measurement Day

Coding Instruction: Indicate the day of home blood pressure measurement (Day 1–Day 7) based on the order in which measurements were recorded. Leave any missed days blank.

Target Value: All values between 3 months prior to arrival at this facility and start of the procedure

Vendor Instruction: Home Blood Pressure Measurement Day (16483) must not be duplicated in an episode

Measurement Day - 1.3.6.1.4.1.19376.1.4.1.6.5.1179

Selection	Definition	Source	Code	Code System
Day 1			112000004432	ACC NCDR
Day 2			112000004433	ACC NCDR
Day 3			112000004434	ACC NCDR
Day 4			112000004435	ACC NCDR
Day 5			112000004436	ACC NCDR
Day 6			112000004437	ACC NCDR
Day 7			112000004438	ACC NCDR

Element: 16490 Average Home Systolic Blood Pressure

Coding Instruction: Indicate the average systolic blood pressure for the day. If only one blood pressure was available, code that blood pressure. It is recommended to code at least 3 (and preferably 7) days of blood pressures.

Target Value: All values between 3 months prior to arrival at this facility and start of the procedure

Element: 16492 Average Home Diastolic Blood Pressure

Coding Instruction: Indicate the average diastolic blood pressure for the day. If only one blood pressure was available, code that blood pressure. It is recommended to code at least 3 (and preferably 7) days of blood pressures.

Target Value: All values between 3 months prior to arrival at this facility and start of the procedure

Section: Home Medications - Antihypertensive Medications

Parent: Home Medications

Element: 16423 Antihypertensive Medication

Coding Instruction: Indicate the antihypertensive medications the patient was taking routinely at home prior to this hospitalization.

Note: Do not include medications prescribed primarily for another clinical indication, even if they have blood pressure lowering effects.

Target Value: The value on arrival at this facility

Vendor Instruction: Antihypertensive Medication (16423) must not be duplicated in an episode

Antihypertensive Medications - 1.3.6.1.4.1.19376.1.4.1.6.5.1178

Selection	Definition	Source	Code	Code System
acebutolol 200 MG			328656	RxNorm

Element: 16427 Antihypertension Medication Frequency

Coding Instruction: Indicate the frequency of the medication the patient was taking routinely at home prior to this hospitalization.

Target Value: The value on arrival at this facility

Medication Frequency - 1.3.6.1.4.1.19376.1.4.1.6.5.1176

Selection	Definition	Source	Code	Code System
Daily	The medication was administered once a day, or "daily".		69620002	SNOMED CT
Twice a Day	The medication was administered twice a day, or "BID".		112000004403	ACC NCDR
Three Times a Day	The medication was administered three times a day, or "TID".		112000004404	ACC NCDR
Four Times a Day	The medication was administered four times a day, or "QID".		112000004405	ACC NCDR
Weekly	The medication was administered once a week, or weekly.		225769003	SNOMED CT
Other	The medication was administered at a frequency not otherwise specified.		100000351	ACC NCDR

Section: Home Medications - Other

Parent: Home Medications

Element: 12297 Home Medication Code

Coding Instruction: The medications listed in this field are controlled by the Medication Master file. This file is maintained by the NCDR and will be made available for downloading and importing/updating into your application.

Target Value: N/A

Vendor Instruction: Home Medication Code (12297) must not be duplicated in an episode

Home Medications - 2.16.840.1.113883.3.3478.6.5.302

Selection	Definition	Source	Code	Code System
Aspirin			1191	RxNorm
Direct oral anticoagulants			112000002174	ACC NCDR
GLP-1 agonist			772985004	SNOMED CT
Non-statin (lipid lowering)			100014161	ACC NCDR
Nonsteroidal anti-inflammatory			112000004390	ACC NCDR
SGLT2 inhibitor			703673007	SNOMED CT
Statin			96302009	SNOMED CT
Warfarin			11289	RxNorm

Element: 16494 Home Medication Used

Coding Instruction: Indicate other medications the patient was taking routinely at home prior to this hospitalization.

Target Value: The value on arrival at this facility

Vendor Instruction: Home Medication Used (16494) cannot be Null when a Home Medication Code (12297) is selected

Home Medication Prescribed - 1.3.6.1.4.1.19376.1.4.1.6.5.710

Selection	Definition	Source	Code	Code System
No			112000000168	ACC NCDR
Yes			100001247	ACC NCDR

Section: Procedure Information

Parent: Root

Element: 7000

Procedure Start Date and Time

Coding Instruction: Indicate the date and time the procedure started.

Note(s):

Indicate the date/time (mm/dd/yyyy hours:minutes) using the military 24-hour clock, beginning at midnight (0000 hours).

The time the procedure started is defined as the time at which local anesthetic was first administered for vascular access, or the time of the first attempt at vascular access for the procedure (use whichever is earlier).

Target Value: Any occurrence on current procedure

Vendor Instruction: Procedure Start Date and Time (7000) must be >= Arrival Date (3000)

Procedure Start Date and Time (7000) must be <= Procedure End Date and Time (7005)

Procedure Start Date and Time (7000) must be <= Discharge Date (10100)

Element: 7005

Procedure End Date and Time

Coding Instruction: Indicate the ending date and time at which the operator completes the procedure and breaks scrub at the end of the procedure.

Note(s):

If more than one operator is involved in the case then use the date and time the last operator breaks scrub for the last time.

Target Value: The value on current procedure

Vendor Instruction: Procedure End Date and Time (7005) must be <= Discharge Date (10100)

Element: 7065

Concomitant Procedures Performed

Coding Instruction: Indicate if another procedure was performed in conjunction with the registry specific procedure.

Note(s): The intent of this data element is to capture additional procedures not inherent to the registry specific procedure. Additionally, procedures performed to correct an event that occurred as a result of the registry specific procedure are not captured in this data element.

Target Value: The value on current procedure

Element: 7066

Concomitant Procedures Performed Type

Coding Instruction: Indicate the type of procedure performed in conjunction with the primary procedure.

Note(s):

The procedure(s) collected in your application is controlled by Procedure 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.

Target Value: The value on current procedure

Concomitant Procedures Type - 2.16.840.1.113883.3.3478.6.4.10

Selection	Definition	Source	Code	Code System
Biopsy of heart			197042001	SNOMED CT
Structural repair			100001273	ACC NCDR
Left atrial appendage occlusion			233032004	SNOMED CT
Parachute device placement			1000142393	ACC NCDR
Mitral clip procedure			112000000208	ACC NCDR
TAVR			441873006	SNOMED CT
Right heart cath			40403005	SNOMED CT
EP study			252425004	SNOMED CT
Temporary pacemaker placement			281556002	SNOMED CT
Permanent pacemaker placement			33331003	SNOMED CT
Aortogram			241230009	SNOMED CT
Peripheral intervention			100001272	ACC NCDR
Peripheral angiogram			1000142392	ACC NCDR
Cardioversion			250980009	SNOMED CT
IMA (Native Position) Angiogram			84311009	SNOMED CT
Procedure type not listed			10001424810	ACC NCDR

Element: 16403

Procedure Indication

Section: Procedure Information

Parent: Root

Coding Instruction: Indicate the reason the procedure is being performed.

Target Value: The value on current procedure

Pre-Procedure Indications - 1.3.6.1.4.1.19376.1.4.1.6.5.1171

Selection	Definition	Source	Code	Code System
Uncontrolled hypertension	Blood pressure >140/90 mmHg despite active blood pressure management by a clinician.		112000004383	ACC NCDR
Other			100000351	ACC NCDR

Element: 14732 Shared Decision Making

Coding Instruction: Indicate if Shared Decision Making (SDM) was performed for the procedure.

A statement by the Provider that a SDM encounter occurred, use of a Smart phrase pertaining to SDM within the facility's EHR system, or use of a SDM Tool are all sufficient for coding "Yes".

Target Value: The value on current procedure

Supporting Definition: Shared Decision Making

Shared decision-making is when patients and clinicians work as a team to make care decisions. The provider offers various options and describes their risks and benefits, and the patient expresses his or her preferences and values. Tools can help facilitate a collaborative process between providers and patients and can:

- Increase knowledge and satisfaction regarding care
- Define clearer goals for treatment
- Align health decisions with patient values

Informed consent is not the same as shared decision-making.

Source:

Element: 7100 Operator Last Name

Coding Instruction: Indicate the last name of operator.

Note(s):
If the name exceeds 50 characters, enter the first 50 characters only.

Target Value: The value on current procedure

Element: 7105 Operator First Name

Coding Instruction: Indicate the first name of operator.

Note(s):
If the name exceeds 50 characters, enter the first 50 characters only.

Target Value: The value on current procedure

Element: 7110 Operator Middle Name

Coding Instruction: Indicate the middle name of operator.

Note(s):
It is acceptable to specify the middle initial.

If there is no middle name given, leave field blank.

If there are multiple middle names, enter all of the middle names sequentially.

If the name exceeds 50 characters, enter the first 50 letters only.

Target Value: The value on current procedure

Element: 7115 Operator NPI

Coding Instruction: Indicate the National Provider Identifier (NPI) of the operator who is performing the procedure. NPI's, assigned by the Centers for Medicare and Medicaid Services (CMS), are used to uniquely identify physicians for Medicare billing purposes.

Target Value: The value on current procedure

Vendor Instruction: Operator NPI (7115) cannot be Null

Element: 15433 Fellow Last Name

Coding Instruction: Indicate the last name of the Fellow who is involved with the procedure.

Section: Procedure Information

Parent: Root

Note(s):
If the name exceeds 50 characters, enter the first 50 letters only.

Target Value: The value on current procedure

Element: 15434

Fellow First Name

Coding Instruction: Indicate the first name of the Fellow-in-Training operator.

Note(s):
If the name exceeds 50 characters, enter the first 50 characters only.

Target Value: The value on current procedure

Element: 15435

Fellow Middle Name

Coding Instruction: Indicate the middle name of the Fellow-in-Training operator.

Note(s):
If the name exceeds 50 characters, enter the first 50 characters only.

Target Value: The value on current procedure

Element: 15436

Fellow NPI

Coding Instruction: Indicate the National Provider Identifier (NPI) of the Fellow-In-Training operator who is performing the procedure.

National Provider Identifier (NPI) numbers, assigned by the Centers for Medicare and Medicaid Services (CMS), are used to uniquely identify physicians for Medicare billing purposes.

Target Value: The value on current procedure

Vendor Instruction: Operator NPI (7115) cannot be equal to the Fellow NPI (15436) within the same procedure, i.e., an individual cannot be the Operator and FIT for the same procedure.

Element: 15431

Fellowship Program Identification Number

Coding Instruction: Indicate the institution's Accreditation Council for Graduate Medical Education (ACGME) number for the program in which the Fellow is participating.

Target Value: The value on current procedure

Supporting Definition: Fellowship Program Identification Number

The institution's Accreditation Council for Graduate Medical Education (ACGME) number for the program in which the Fellow is participating.

ACGME oversees the accreditation of fellowship programs in the US. Each accredited training program is assigned a program ID.

Source: A list of programs by specialty can be found here: ACGME - Accreditation Data System (ADS):
<https://apps.acgme.org/ads/Public/Reports/Report/1> .

Vendor Instruction: Fellowship Program Identification Number (15431) must be a valid ACGME ID

Element: 12871

Procedure Location

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

Target Value: The value on current procedure

Procedure Location - 1.3.6.1.4.1.19376.1.4.1.6.5.327

Selection	Definition	Source	Code	Code System
Ambulatory Surgery Center	Select if a procedure was performed outside of a hospital setting.		405607001	SNOMED CT
Cath Lab	Select if a procedure was performed in a hospital-based cath lab.		112000000616	ACC NCDR
Interventional Radiology Laboratory	Select if a procedure was performed in a hospital-based interventional radiology suite.		112000000617	ACC NCDR
EP Lab	Select if a procedure was performed in a hospital-based electrophysiology lab.		112000002109	ACC NCDR
OR	Select if a procedure was performed in a hospital-based operating room.		225738002	SNOMED CT
Other			100000351	ACC NCDR

Element: 13331

Anesthesia Type

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

Section: Procedure Information

Parent: Root

Target Value: The highest value on current procedure

Supporting Definition: Anesthesia

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.

Source: Anesthesia Quality Institute (2018). 2018 AQI NACOR data element conceptual definition. Retrieved from http://www.aqihq.org/files/AQI_NACOR_DATA_ELEMENT_DEFINITIONS_v3%202018_FINAL.pdf

Anesthesia Type - 1.3.6.1.4.1.19376.1.4.1.6.5.463

Selection	Definition	Source	Code	Code System
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.		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	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/local only	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

Element: 16382 Mechanical Ventilation Required

Coding Instruction: Indicate if the patient required invasive or non-invasive ventilation to assist or replace spontaneous breathing during the procedure.

Target Value: The highest value on current procedure

Mechanical Ventilation Required - 1.3.6.1.4.1.19376.1.4.1.6.5.1180

Selection	Definition	Source	Code	Code System
Invasive mechanical ventilation	Invasive ventilation is the administration of ventilatory support with utilization of an artificial airway such as an endotracheal tube or tracheostomy.		112000001990	ACC NCDR
Noninvasive mechanical ventilation	Noninvasive ventilation is the administration of a face mask connected to a ventilator (e.g. BiPAP, CPAP, HFNT, etc.).		430191008	SNOMED CT
None	No mechanical ventilation required.		260413007	SNOMED CT

Element: 7214 Fluoroscopy Time

Coding Instruction: Indicate the total fluoroscopy time recorded to the nearest 0.1-minute. The time recorded should include the total time for the lab visit.

Target Value: The total between start of current procedure and end of current procedure

Element: 7210 Cumulative Air Kerma

Coding Instruction: Indicate the total radiation dose (Cumulative Air Kerma, or Reference Air Kerma) recorded to the nearest milligray (mGy) or gray (Gy). The value recorded should include the total dose for the lab visit. Cumulative air kerma is the total air kerma accrued from the beginning of an examination or procedure and includes all contributions from fluoroscopic and radiographic irradiation.

Target Value: The total between start of current procedure and end of current procedure

Section: Procedure Information**Parent: Root****Supporting Definition: Cumulative (Reference) Air kerma**

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

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

Source: Miller DL, et al. Radiation doses in interventional radiology procedures. (J Vasc Interv Radiol 2003;14:711-727.)

Element: 14278**Dose Area Product**

Coding Instruction: Indicate the total fluoroscopy dose to the nearest integer. The value recorded should include the total dose for the lab visit.

Target Value: The total between start of current procedure and end of current procedure

Supporting Definition: Dose Area Product

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

Also known as KAP (Kerma Area Product).

Source: Miller DL, et al. Radiation doses in interventional radiology procedures. (J Vasc Interv Radiol 2003; 14:711-727.)

Element: 7215**Contrast Volume**

Coding Instruction: Indicate the volume of contrast (ionic and non-ionic) used in milliliters (ml). The volume recorded should be the total volume for the lab visit.

Target Value: The total between start of current procedure and end of current procedure

Section: Renal Denervation Procedure Information

Parent: Procedure Information

Element: 16418 Accessory Artery Present

Coding Instruction: Indicate whether accessory renal artery(ies) were identified, and if present, document laterality

Target Value: The value on current procedure

Accessory Artery Present - 1.3.6.1.4.1.19376.1.4.1.6.5.1174

Selection	Definition	Source	Code	Code System
No			100013073	ACC NCDR
Yes - Left			112000004391	ACC NCDR
Yes - Right			112000004392	ACC NCDR
Yes - Both			112000004393	ACC NCDR

Element: 16422 Renal Artery Sizing Method

Coding Instruction: Indicate the imaging modalities used to determine renal artery diameter for procedural planning or device sizing.

Target Value: The value on current procedure

Renal Artery Sizing Method - 1.3.6.1.4.1.19376.1.4.1.6.5.1175

Selection	Definition	Source	Code	Code System
Angiography			77343006	SNOMED CT
Computed tomography angiography			418272005	SNOMED CT
Intravascular ultrasound			112000004398	ACC NCDR
Magnetic resonance angiography			241663008	SNOMED CT
Visual assessment with fluoroscopy			112000004396	ACC NCDR

Element: 16495 Renal Artery Sizing Method Not Documented

Coding Instruction: Indicate if the imaging modalities used to determine renal artery diameter for procedural planning or device sizing was not documented.

Target Value: N/A

Section: Renal Artery Treatment

Parent: Renal Denervation Procedure Information

Element: 16397

Renal Artery Ablation Attempted

Coding Instruction: Indicate each renal artery where ablation was attempted or performed.

Target Value: The value on current procedure

Supporting Definition: **Renal Artery Ablation Attempted**

An ablation attempt is defined as the insertion of a renal artery ablation device with intent to perform renal denervation.

Source:

Renal Artery Ablation Attempted - 1.3.6.1.4.1.19376.1.4.1.6.5.1177

Selection	Definition	Source	Code	Code System
1 - Right Main Renal Artery	The main trunk of the right main renal artery only (from ostium to first bifurcation). Branch treatments are coded separately.		112000004373	ACC NCDR
2 - Right Main - Anterior Segment	The anterior segment of the right main renal artery is a segment beyond the right main renal artery bifurcation. It is in the primary renal vascular tree (not the accessory artery)		112000004406	ACC NCDR
3 - Right Main - Anterior Superior Segment	The anterior superior segment of the right main renal artery is a segment beyond the right main renal artery bifurcation. It is in the primary renal vascular tree (not the accessory artery).		112000004374	ACC NCDR
4 - Right Main - Anterior Inferior Segment	The anterior inferior segment of the right main renal artery is a segment beyond the right main renal artery bifurcation. It is in the primary renal vascular tree (not the accessory artery)		112000004407	ACC NCDR
5 - Right Main - Posterior Segment	The posterior segment of the right main renal artery is a segment beyond the right main renal artery bifurcation. It is in the primary renal vascular tree (not the accessory artery).		112000004409	ACC NCDR
6 - Right Main - Inferior Segment	The inferior segment of the right main renal artery is a segment beyond the right main renal artery bifurcation. It is in the primary renal vascular tree (not the accessory artery).		112000004408	ACC NCDR
7 - Right Accessory Renal Artery	The main trunk of the right accessory renal artery (from ostium to first bifurcation). A right accessory artery is an additional artery that some patients have. It supplies the kidney from the aorta. Branch segments are coded separately.		112000004418	ACC NCDR
8 - Right Accessory - Superior Segment	The superior segment of the right accessory renal artery is a segment beyond the accessory artery bifurcation, within an accessory renal vascular tree.		112000004376	ACC NCDR
9 - Right Accessory - Inferior Segment	The inferior segment of the right accessory renal artery is a segment beyond the accessory artery bifurcation, within an accessory renal vascular tree.		112000004410	ACC NCDR
10 - Left Main Renal Artery	The main trunk of the left main renal artery only (from ostium to first bifurcation). Branch treatments are coded separately.		112000004377	ACC NCDR
11 - Left Main - Anterior Segment	The anterior segment of the left main renal artery is a segment beyond the left main renal artery bifurcation. It is in the primary renal vascular tree (not the accessory artery).		112000004411	ACC NCDR
12 - Left Main - Anterior Superior Segment	The anterior superior segment of the left main renal artery is a segment beyond the left main renal artery bifurcation. It is in the primary renal vascular tree (not the accessory artery)		112000004378	ACC NCDR
13 - Left Main - Anterior Inferior Segment	The anterior inferior segment of the left main renal artery is a segment beyond the left main renal artery bifurcation. It is in the primary renal vascular tree (not the accessory artery).		112000004412	ACC NCDR
14 - Left Main - Posterior Segment	The posterior segment of the left main renal artery is a segment beyond the left main renal artery bifurcation. It is in the primary renal vascular tree (not the accessory artery).		112000004415	ACC NCDR
15 - Left Main - Inferior Segment	The inferior segment of the left main renal artery is a segment beyond the left main renal artery bifurcation. It is in the primary renal vascular tree (not the accessory artery).		112000004414	ACC NCDR
16 - Left Accessory Renal Artery	The main trunk of the left accessory renal artery (from ostium to first bifurcation). A left accessory artery is an additional artery that some patients have. It supplies the kidney from the aorta. Branch segments are coded separately.		112000004379	ACC NCDR

Section: Renal Artery Treatment		Parent: Renal Denervation Procedure Information	
17 - Left Accessory - Superior Segment	The superior segment of the left accessory renal artery is a segment beyond the accessory artery bifurcation, within an accessory renal vascular tree.	112000004380	ACC NCDR
18 - Left Accessory - Inferior Segment	The inferior segment of the left accessory renal artery is a segment beyond the accessory artery bifurcation, within an accessory renal vascular tree.	112000004416	ACC NCDR

Element: 16399	Ablations Performed
Coding Instruction: Indicate if at least one ablation was performed on the renal artery. Target Value: The value on current procedure	
Element: 16398	Number of Ablations Performed on Artery Treated
Coding Instruction: Indicate the total number of ablations performed on the treated artery. Note(s): For radiofrequency ablation, one catheter placement with four (>45 second) ablations equals four ablations. For ultrasound, one balloon-based treatment >7 seconds equals one ablation. Code '0' if an ablation device was inserted, but none of the above criteria are met. Target Value: The value on current procedure Vendor Instruction: Number of Ablations Performed on Artery Treated (16398) must be <= 30	

Section: Renal Device Information

Parent: Renal Artery Treatment

Element: 16394

Unique Device Identifier - Renal Denervation Procedure

Coding Instruction: Indicate the Unique Device Identifier (UDI) for the renal denervation device used on each renal artery.

Notes:

If multiple devices were used, report the one that delivered the most ablations.

Enter the Device Identifier (01) first, then add optional Production Identifiers: (17) Expiration date and (10) Lot number

Or, you may scan or copy paste the full UDI from the device label.

Target Value: The value on current procedure

Section: Renal Post Ablation

Parent: Renal Denervation Procedure Information

Element: 16401 Post Ablation Intravascular Ultrasound

Coding Instruction: Indicate if intravascular ultrasound was used post ablation(s). Intravascular ultrasound is used to assess for vessel integrity or damage after the renal denervation device was used.

Target Value: The value on end of current procedure

Section: IPP Events

Parent: Intra and Post Procedure Events

Element: 9001

Intra/Post-Procedure Events

Coding Instruction: The events listed in this field are controlled by the Events Master file. This file is maintained by the NCDR and will be made available for downloading and importing/updating into your application.

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

Vendor Instruction: An Intra or Post Procedure Events (9001) must not be duplicated in an episode

Post-Procedure Events - 2.16.840.1.113883.3.3478.6.3.10

Selection	Definition	Source	Code	Code System
Embolic event	Select if the patient had an embolic event documented in the medical record. An embolic event occurs when a thrombus or other material breaks away and travels to another area of the body, causing a blockage.		54687002	SNOMED CT
Major bleeding	Select if there is documentation of a confirmed bleeding event observed in the medical record that was associated with any of the following: Hemoglobin drop of ≥ 3 g/dL; Transfusion of whole blood or packed red blood cells; Procedural intervention or surgery at the bleeding site to reverse, stop, or correct the bleeding (such as surgical closures or exploration of the arteriotomy site, balloon angioplasty to seal an arterial tear, or endoscopy with cautery of a gastrointestinal bleed).		112000001889	ACC NCDR
New requirement for dialysis	Indicate if the patient experienced acute or worsening renal failure necessitating renal dialysis. Note: 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".		100014076	ACC NCDR
Renal artery injury requiring an invasive intervention	Select if there is documentation of a renal artery or renal artery branch injury resulting from the renal denervation procedure that required invasive intervention. This may include, but is not limited to, the following: Renal artery perforation Renal artery dissection Other documented injury to the renal artery or its branches (for example, thrombosis or pseudoaneurysm) when directly attributed to the renal denervation procedure Invasive intervention may include, but is not limited to, glue, coils, stenting, surgical repair, or other documented invasive vascular intervention performed to treat the injury.		112000004365	ACC NCDR
Peripheral vascular injury (any)	Select if there is documentation of a vascular injury attributable to the current procedure that required an intervention. Vascular injuries may include, but are not limited to: Access site occlusions Dissections Pseudoaneurysms and/or AV fistulas Any noted vascular injury must have had an intervention such as fibrin injection, angioplasty, or surgical repair to qualify. Prolonged pressure does not qualify as an intervention; however, ultrasound-guided compression after diagnosis of pseudoaneurysm does qualify. A bleeding event is not considered a vascular injury under this data element.		112000004043	ACC NCDR

Section: IPP Events

Parent: Intra and Post Procedure Events

Element: 9002

Intra/Post-Procedure Events Occurred

Coding Instruction: Indicate if the intra or post procedure event did or did not occur.

Note(s):

The term 'procedure' that is mentioned in the target value is in reference to a renal denervation procedure during the current episode of care.

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

Vendor Instruction: Intra/Post-Procedure Events Occurred (9002) cannot be Null when an Intra/Post Procedure Events (9001) is selected

Section: IPP Event Details

Parent: Intra and Post Procedure Events

Element: 9275

Packed Red Blood Cell Transfusion

Coding Instruction: Indicate if there was a transfusion(s) of packed red blood cells.

Note(s):

The term 'procedure' that is mentioned in the target value is in reference to a renal denervation procedure during the current episode of care.

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

Section: Discharge

Parent: Root

Element: 10100 Discharge Date

Coding Instruction: Indicate the date on which the patient was discharged from your facility.

Target Value: The value on discharge

Vendor Instruction: Discharge Date (10100) and Arrival Date (3000) must not overlap on multiple episodes

Discharge Date (10100) must be >= 01/01/2024

Element: 10105 Discharge Status

Coding Instruction: Indicate the patient's vital status.

Target Value: The value on discharge

Discharge Life Status - 1.3.6.1.4.1.19376.1.4.1.6.5.42

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

Element: 10125 Cause of Death

Coding Instruction: Indicate the primary cause of death, i.e. the first significant abnormal event which ultimately led to death.

Target Value: The value on time of death

Cause of Death Clinical Finding - 1.3.6.1.4.1.19376.1.4.1.6.5.88

Selection	Definition	Source	Code	Code System
Cardiac	Attribution of death to a cardiovascular etiology are acute myocardial infarction, sudden cardiac death, heart failure, stroke, cardiovascular procedure, cardiovascular hemorrhage, and other cardiovascular causes. "Death due to other cardiovascular causes" refers to a cardiovascular death not included in the above categories but with a specific known cause, such as a pulmonary embolism or peripheral arterial disease. In addition, "death due to cardiovascular hemorrhage" refers to a death related to hemorrhage such as a non-stroke intracranial hemorrhage, non-procedural or non-traumatic vascular rupture (e.g., aortic aneurysm), or pulmonary hemorrhage from a pulmonary embolism. In contrast, if a pulmonary hemorrhage were a result of a contusion from a motor vehicle accident, the cause of death would be non-cardiovascular (death due to trauma).	Hicks KA, Tcheng JE, Bozkurt B. 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). J Am Coll Cardiol 2015;66:403-69	100014107	ACC NCDR
Non-Cardiac	Mortality attributed to any non-cardiovascular organ, system, infection, malignancy, trauma or drug reaction/overdose.	Hicks KA, Tcheng JE, Bozkurt B. 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). J Am Coll Cardiol 2015;66:403-69	112000000343	ACC NCDR
Undetermined	Attribution of causality may be limited or impossible if information available at the time of death is minimal or nonexistent.		112000000342	ACC NCDR

Section: Follow-Up

Parent: Root

Element: 10999 Follow-Up Unique Key

Coding Instruction: Indicate the unique key associated with each patient follow-up record as assigned by the EMR/EHR or your software application.

Target Value: N/A

Element: 11000 Follow-Up Assessment Date

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

Target Value: The value on Follow-up

Vendor Instruction: Follow-Up Assessment Date (11000) must be >= 01/01/2024

Element: 14946 Reference Episode Arrival Date

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

Target Value: The value on Follow-up

Element: 11001 Follow-Up Reference Procedure Start Date and Time

Coding Instruction: Indicate the start date and time of the reference procedure.

Target Value: The value on Follow-up

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

Element: 11004 Follow-Up Status

Coding Instruction: Indicate the patient's vital status.

Target Value: The value on Follow-up

Follow-Up Status - 1.3.6.1.4.1.19376.1.4.1.6.5.372

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

Element: 11006 Follow-Up Date of Death

Coding Instruction: Indicate the date of death.

Target Value: The value on Follow-up

Vendor Instruction: Follow-Up Date of Death (11006) must be >= to the Follow-Up Assessment Date (11000) of a prior follow-up assessment with Follow-Up Status (11004) of Alive

Element: 11007 Cause of Death

Coding Instruction: Indicate the primary cause of death, i.e. the first significant abnormal event which ultimately led to death.

Target Value: The value on Follow-up

Cause of Death Clinical Finding - 1.3.6.1.4.1.19376.1.4.1.6.5.88

Selection	Definition	Source	Code	Code System
Cardiac	Attribution of death to a cardiovascular etiology are acute myocardial infarction, sudden cardiac death, heart failure, stroke, cardiovascular procedure, cardiovascular hemorrhage, and other cardiovascular causes. "Death due to other cardiovascular causes" refers to a cardiovascular death not included in the above categories but with a specific known cause, such as a pulmonary embolism or peripheral arterial disease. In addition, "death due to cardiovascular hemorrhage" refers to a death related to hemorrhage such as a non-stroke intracranial hemorrhage, non-procedural or non-	Hicks KA, Tchong JE, Bozkurt B. 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). J Am Coll Cardiol 2015;66:403-69	100014107	ACC NCDR

Section: Follow-Up		Parent: Root		
	traumatic vascular rupture (e.g., aortic aneurysm), or pulmonary hemorrhage from a pulmonary embolism.			
	In contrast, if a pulmonary hemorrhage were a result of a contusion from a motor vehicle accident, the cause of death would be non-cardiovascular (death due to trauma).			
Non-Cardiac	Mortality attributed to any non-cardiovascular organ, system, infection, malignancy, trauma or drug reaction/overdose.	Hicks KA, Tcheng JE, Bozkurt B. 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). J Am Coll Cardiol 2015;66:403-69	112000000343	ACC NCDR
Undetermined	Attribution of causality may be limited or impossible if information available at the time of death is minimal or nonexistent.		112000000342	ACC NCDR

Element: 16381 Hospitalization

Coding Instruction: Indicate if the patient was hospitalized (or is currently hospitalized) or has had an emergency department visit.

Target Value: Any occurrence between discharge (or previous follow-up) and current follow-up assessment

Section: Follow-Up Hospitalization Event

Parent: Follow-Up

Element: 11011 Follow-Up Events

Coding Instruction: Indicate the event(s) assessed for the patient.

Note(s): The events listed in this field are controlled by the Event Master file. This file is maintained by the NCDR and will be made available for downloading and importing/updating into your application.

Target Value: N/A

Vendor Instruction: Follow-Up Events (11011) must not be duplicated in a follow-up

Follow-up Events - 2.16.840.1.113883.3.3478.6.3.20

Selection	Definition	Source	Code	Code System
Hypertensive crisis	Select if there is documentation/diagnosis of hypertensive crisis. Hypertensive emergency and hypertensive urgency are understood to be types of hypertensive crisis. Hypertensive crisis is a severely elevated blood pressure (BP), usually higher than 180/110 mmHg, together with progressive or impending target organ damage, requiring in-subject hospitalization and typically admission to the Intensive Care Unit (ICU) (e.g., with parenteral [IV] antihypertensive medications).		706882009	SNOMED CT
Heart failure	Select if there is documentation of a clinical diagnosis of heart failure.		84114007	SNOMED CT
Myocardial infarction	Select myocardial infarction if documentation of a clinical diagnosis of NSTEMI or STEMI.		57054005	SNOMED CT
Renal artery denervation reintervention	Select if the patient had a renal artery denervation reintervention.		112000004372	ACC NCDR
Renal failure	Select if the patient was hospitalized with a diagnosis of renal failure.		36225005	SNOMED CT
Stroke	Select if there is documentation of a clinical diagnosis of stroke.		100000977	ACC NCDR
Transient ischemic attack	Select if there is documentation of a clinical diagnosis of a transient ischemic attack (TIA).		266257000	SNOMED CT
Other	Not otherwise specified.		100000351	ACC NCDR

Element: 11012 Follow-Up Events Occurred

Coding Instruction: Indicate if the event(s) occurred.

Target Value: Any occurrence between discharge (or previous follow-up) and current follow-up assessment

Element: 16496 Follow-Up Event Date

Coding Instruction: Indicate the date the event occurred.

Note(s):
For events that occurred with an unknown date, leave the date field blank.

Target Value: The last value between discharge (or previous follow-up) and current follow-up assessment

Section: Follow-Up New Diagnoses

Parent: Follow-Up

Element: 16410 Follow-Up New Diagnosis

Coding Instruction: The diagnoses listed in this field are controlled by the master file. This file is maintained by the NCDR and will be made available for downloading and importing/updating into your third-party software application.

Target Value: N/A

Vendor Instruction: Follow-Up New Diagnosis (16410) must not be duplicated in a follow-up

Follow-up New Diagnoses - 1.3.6.1.4.1.19376.1.4.1.6.5.1172

Selection	Definition	Source	Code	Code System
Atrial fibrillation/flutter	Select if there is documentation of a new diagnosis of atrial fibrillation or atrial flutter.		195080001	SNOMED CT
New requirement for dialysis	Indicate if the patient experienced acute or worsening renal failure necessitating renal dialysis. Note: 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".		100014076	ACC NCDR
New renal artery stenosis of greater than 50 percent	Select if there is documentation of new renal artery stenosis of >50%.		112000004385	ACC NCDR

Element: 16411 Follow-Up New Diagnosis Occurred

Coding Instruction: Indicate if the new diagnosis(es) occurred.

Target Value: Any occurrence between discharge (or previous follow-up) and current follow-up assessment

Element: 16414 New Diagnosis Date

Coding Instruction: Identify the date when the specified diagnosis occurred.

Target Value: All values between discharge (or previous follow-up) and current follow-up assessment

Section: Follow-Up New Diagnoses Details

Parent: Follow-Up

Element: 16412 Follow-Up Renal Artery Stenosis Method of Diagnosis

Coding Instruction: Indicate the method to diagnose renal artery stenosis.

Target Value: Any occurrence between discharge (or previous follow-up) and current follow-up assessment

Follow-up Renal Artery Stenosis Method of Diagnosis - 1.3.6.1.4.1.19376.1.4.1.6.5.1173

Selection	Definition	Source	Code	Code System
Computed tomography angiography	Select if the new renal artery stenosis was documented by CT angiography.		418272005	SNOMED CT
Duplex ultrasound	Select if the new renal artery stenosis was documented by duplex ultrasound.		112000001042	ACC NCDR
Invasive angiogram	Select if the new renal artery stenosis was documented by invasive angiogram.		77343006	SNOMED CT
Magnetic resonance angiogram	Select if the new renal artery stenosis was documented by magnetic resonance angiography.		241663008	SNOMED CT

Element: 16413 Follow-Up Renal Artery Stent Required

Coding Instruction: Indicate if renal artery stenting was required to treat the renal artery stenosis.

Target Value: Any occurrence between discharge (or previous follow-up) and current follow-up assessment

Section: Follow-Up Labs

Parent: Follow-Up

Element: 13775	Hemoglobin
Coding Instruction:	Indicate the hemoglobin (Hgb) value in g/dL.
Target Value:	The last value between discharge (or previous follow-up) and current follow-up assessment
Supporting Definition:	Hemoglobin Hemoglobin (Hb or Hgb) is the iron-containing oxygen-transport metalloprotein in the red blood cells. It carries oxygen from the lungs to the rest of the body (i.e. the tissues) where it releases the oxygen to burn nutrients and provide energy. Hemoglobin concentration measurement is among the most commonly performed blood tests, usually as part of a complete blood count. If the concentration is below normal, this is called anemia. Anemias are classified by the size of red blood cells: "microcytic" if red cells are small, "macrocytic" if they are large, and "normocytic" if otherwise. Dehydration or hyperhydration can greatly influence measured hemoglobin levels. Source: http://s.details.loinc.org/LOINC/718-7.html?sections=Simple
Element: 14326	Hemoglobin Not Drawn
Coding Instruction:	Indicate if a follow-up hemoglobin was not collected.
Target Value:	N/A
Element: 16390	Potassium
Coding Instruction:	Indicate the potassium (K) value in mEq/L.
Target Value:	The last value between discharge (or previous follow-up) and current follow-up assessment
Element: 16391	Potassium not Drawn
Coding Instruction:	Indicate if a follow-up potassium value was not collected.
Target Value:	N/A
Element: 13310	Creatinine
Coding Instruction:	Indicate the creatinine (Cr) level in mg/dL.
Target Value:	The last value between discharge (or previous follow-up) and current follow-up assessment
Supporting Definition:	Creatinine Creatinine or creatine anhydride, is a breakdown product of creatine phosphate in muscle. The loss of water molecule from creatine results in the formation of creatinine. It is transferred to the kidneys by blood plasma, whereupon it is eliminated by glomerular filtration and partial tubular excretion. Creatinine is usually produced at a fairly constant rate and measuring its serum level is a simple test. A rise in blood creatinine levels is observed only with marked damage to functioning nephrons; therefore this test is not suitable for detecting early kidney disease. Creatine and creatinine are metabolized in the kidneys, muscle, liver and pancreas. Source: http://s.details.loinc.org/LOINC/2160-0.html?sections=Simple
Element: 13311	Creatinine Not Drawn
Coding Instruction:	Indicate if a follow-up creatinine level was not collected.
Target Value:	N/A
Element: 16392	Glucose
Coding Instruction:	Indicate the glucose value in mg/dL.
Target Value:	The last value between discharge (or previous follow-up) and current follow-up assessment
Element: 16393	Glucose Not Drawn
Coding Instruction:	Indicate if a follow-up glucose value was not collected.
Target Value:	N/A
Element: 16415	Albumin
Coding Instruction:	Indicate the total albumin, in g/dL.
Target Value:	The last value between discharge (or previous follow-up) and current follow-up assessment
Element: 14211	Albumin Not Drawn
Coding Instruction:	Indicate if a total albumin was not collected.

Section: Follow-Up Labs

Parent: Follow-Up

Target Value: N/A

Section: Follow-Up Antihypertensive Medications

Parent: Follow-Up

Element: 16426 Antihypertensive Medication in Follow-Up

Coding Instruction: Indicate the antihypertensive medications the patient was taking routinely at home.

Note: Do not include medications prescribed primarily for another clinical indication, even if they have blood pressure lowering effects.

Target Value: The last value between discharge (or previous follow-up) and current follow-up assessment

Vendor Instruction: Antihypertensive Medication in Follow-Up (16426) must not be duplicated in a follow-up

Antihypertensive Medications - 1.3.6.1.4.1.19376.1.4.1.6.5.1178

Selection	Definition	Source	Code	Code System
acebutolol 200 MG			328656	RxNorm

Element: 16428 Antihypertension Medication Frequency in Follow-Up

Coding Instruction: Indicate the frequency of the medication the patient was taking routinely.

Target Value: The last value between discharge (or previous follow-up) and current follow-up assessment

Medication Frequency - 1.3.6.1.4.1.19376.1.4.1.6.5.1176

Selection	Definition	Source	Code	Code System
Daily	The medication was administered once a day, or "daily".		69620002	SNOMED CT
Twice a Day	The medication was administered twice a day, or "BID".		112000004403	ACC NCDR
Three Times a Day	The medication was administered three times a day, or "TID".		112000004404	ACC NCDR
Four Times a Day	The medication was administered four times a day, or "QID".		112000004405	ACC NCDR
Weekly	The medication was administered once a week, or weekly.		225769003	SNOMED CT
Other	The medication was administered at a frequency not otherwise specified.		100000351	ACC NCDR

Section: Follow-Up Blood Pressure - Ambulatory

Parent: Follow-Up Blood Pressure

Element: 16475 24 Hour Ambulatory Blood Pressure Monitor Available

Coding Instruction: Indicate if results from a 24-hour ambulatory blood pressure monitor are available. A 24-hour ambulatory blood pressure monitor is a portable device worn by the patient that automatically measures blood pressure at regular intervals.

Target Value: The last value between discharge (or previous follow-up) and current follow-up assessment

Element: 16481 Ambulatory Blood Pressure Monitor Start Date

Coding Instruction: Indicate the date the twenty-four-hour ambulatory blood pressure monitoring was initiated.

Target Value: The last value between discharge (or previous follow-up) and current follow-up assessment

Section: Follow-Up Blood Pressure - Ambulatory Daytime**Parent: Follow-Up Blood Pressure - Ambulatory****Element: 16469** Average Daytime Systolic Blood Pressure From Ambulatory Blood Pressure Monitor**Coding Instruction:** Indicate the average daytime systolic blood pressure from the twenty-four-hour ambulatory blood pressure monitor.

Note 1: The 24-hour ambulatory monitor captures the average daytime blood pressure beginning 30-60" after waking (prior to exercise, caffeine, or nicotine) until the patient goes to sleep.

Note 2: For shift workers, the monitor must be programmed appropriately to capture the daytime blood pressure after waking.

Target Value: The last value between discharge (or previous follow-up) and current follow-up assessment**Element: 16470** Average Daytime Diastolic Blood Pressure From Ambulatory Blood Pressure Monitor**Coding Instruction:** Indicate the average daytime diastolic blood pressure from the twenty-four-hour ambulatory blood pressure monitor.

Note 1: The 24-hour ambulatory monitor captures the average daytime blood pressure beginning 30-60" after waking (prior to exercise, caffeine, or nicotine) until the patient goes to sleep.

Note 2: For shift workers, the monitor must be programmed appropriately to capture the daytime blood pressure after waking.

Target Value: The last value between discharge (or previous follow-up) and current follow-up assessment

Section: Follow-Up Blood Pressure - Ambulatory Nocturnal**Parent: Follow-Up Blood Pressure - Ambulatory**

Element: 16471 Average Nocturnal Systolic Blood Pressure From Ambulatory Blood Pressure Monitor

Coding Instruction: Indicate the average nocturnal systolic blood pressure from the twenty-four-hour ambulatory blood pressure monitor.

Note 1: The 24-hour ambulatory monitor captures the average nocturnal blood pressure beginning when the patient goes to sleep.

Note 2: For shift workers, the monitor must be programmed appropriately to capture the nocturnal blood pressure while sleeping.

Target Value: The last value between discharge (or previous follow-up) and current follow-up assessment

Element: 16472 Average Nocturnal Diastolic Blood Pressure From Ambulatory Blood Pressure Monitor

Coding Instruction: Indicate the average nocturnal diastolic blood pressure from the twenty-four-hour ambulatory blood pressure monitor.

Note 1: The 24-hour ambulatory monitor captures the average nocturnal blood pressure beginning when the patient goes to sleep.

Note 2: For shift workers, the monitor must be programmed appropriately to capture the nocturnal blood pressure while sleeping.

Target Value: The last value between discharge (or previous follow-up) and current follow-up assessment

Section: Follow-Up Blood Pressure - Ambulatory Overall

Parent: Follow-Up Blood Pressure - Ambulatory

Element: 16473 Average Overall Systolic Blood Pressure From Ambulatory Blood Pressure Monitor

Coding Instruction: Indicate the average overall systolic blood pressure from the twenty-four-hour ambulatory blood pressure monitor.

Target Value: The last value between discharge (or previous follow-up) and current follow-up assessment

Element: 16474 Average Overall Diastolic Blood Pressure From Ambulatory Blood Pressure Monitor

Coding Instruction: Indicate the average overall diastolic blood pressure from the twenty-four-hour ambulatory blood pressure monitor.

Target Value: The last value between discharge (or previous follow-up) and current follow-up assessment

Section: Follow-Up Blood Pressure - Office

Parent: Follow-Up Blood Pressure

Element: 16476	Office Blood Pressure and Heart Rate Data Available
Coding Instruction:	Indicate if office blood pressure and heart rate readings are available.
	Note: If both a standard blood pressure cuff and an automated office blood pressure reading is available (AOBP), code the AOBP reading.
Target Value:	The last value between discharge (or previous follow-up) and current follow-up assessment
Element: 16477	Office Blood Pressure Date
Coding Instruction:	Indicate the date the blood pressure reading was obtained in the physician's office.
Target Value:	The last value between discharge (or previous follow-up) and current follow-up assessment
Element: 16478	Office Systolic Blood Pressure
Coding Instruction:	Indicate the office systolic blood pressure reading.
	Note(s): Standard blood pressure is measured manually or with a single automated cuff reading taken by clinic staff. AOBP uses a device that takes multiple automated readings while the patient rests quietly, then reports an average blood pressure.
	If both a standard blood pressure cuff and an automated office blood pressure reading is available (AOBP), code the average AOBP reading.
Target Value:	The last value between discharge (or previous follow-up) and current follow-up assessment
Element: 16479	Office Diastolic Blood Pressure
Coding Instruction:	Indicate the office diastolic blood pressure reading.
	Note(s): Standard blood pressure is measured manually or with a single automated cuff reading taken by clinic staff. AOBP uses a device that takes multiple automated readings while the patient rests quietly, then reports an average blood pressure.
	If both a standard blood pressure cuff and an automated office blood pressure reading is available (AOBP), code the average AOBP reading.
Target Value:	The last value between discharge (or previous follow-up) and current follow-up assessment
Element: 16509	Automated Office Blood Pressure
Coding Instruction:	Indicate whether the blood pressure measurement was obtained using an Automated Office Blood Pressure (AOBP).
	Note(s): If both a standard blood pressure cuff reading and an automated office blood pressure (AOBP) reading are available, code the average AOBP reading.
Target Value:	The last value between discharge (or previous follow-up) and current follow-up assessment
Element: 16482	Office Heart Rate
Coding Instruction:	Indicate the office heart rate reading.
Target Value:	The last value between discharge (or previous follow-up) and current follow-up assessment

Section: Follow-Up Blood Pressure - Home

Parent: Follow-Up Blood Pressure

Element: 16447

Home Blood Pressure Available

Coding Instruction: Indicate if home blood pressure data is available for as many days as available (up to 7 consecutive days) prior to follow-up.

Target Value: The last value between discharge (or previous follow-up) and current follow-up assessment

Section: Follow-Up Blood Pressure - Seven Day

Parent: Follow-Up Blood Pressure - Home

Element: 16484 Home Blood Pressure Measurement Day

Coding Instruction: Indicate the day of home blood pressure measurement (Day 1–Day 7) based on the order in which measurements were recorded. Leave any missed days blank.

Target Value: All values between discharge (or previous follow-up) and current follow-up assessment

Vendor Instruction: Home Blood Pressure Measurement Day (16484) must not be duplicated in an episode

Measurement Day - 1.3.6.1.4.1.19376.1.4.1.6.5.1179

Selection	Definition	Source	Code	Code System
Day 1			112000004432	ACC NCDR
Day 2			112000004433	ACC NCDR
Day 3			112000004434	ACC NCDR
Day 4			112000004435	ACC NCDR
Day 5			112000004436	ACC NCDR
Day 6			112000004437	ACC NCDR
Day 7			112000004438	ACC NCDR

Element: 16491 Average Home Systolic Blood Pressure in Follow-Up

Coding Instruction: Indicate the average systolic blood pressure for the day. If only one blood pressure was available, code that blood pressure. It is recommended to code at least 3 (and preferably 7) days of blood pressures.

Target Value: The last value between discharge (or previous follow-up) and current follow-up assessment

Element: 16493 Average Home Diastolic Blood Pressure in Follow-Up

Coding Instruction: Indicate the average diastolic blood pressure for the day. If only one blood pressure was available, code that blood pressure. It is recommended to code at least 3 (and preferably 7) days of blood pressures.

Target Value: The last value between discharge (or previous follow-up) and current follow-up assessment

Section: Administration

Parent: Root

Element: 1000	Participant ID
	Coding Instruction: Indicate the participant ID of the submitting facility. Target Value: N/A
Element: 1010	Participant Name
	Coding Instruction: Indicate the full name of the facility where the procedure was performed. Note(s): Values should be full, official hospital names with no abbreviations or variations in spelling. Target Value: N/A
Element: 1020	Time Frame of Data Submission
	Coding Instruction: Indicate the time frame of data included in the data submission. Format: YYYYQQ. e.g.,2016Q1 Target Value: N/A
Element: 1040	Transmission Number
	Coding Instruction: This is a unique number created, and automatically inserted by the software into export file. It identifies the number of times the software has created a data submission file. The transmission number should be incremented by one every time the data submission files are exported. The transmission number should never be repeated. Target Value: N/A
Element: 1050	Vendor Identifier
	Coding Instruction: Vendor identification (agreed upon by mutual selection between the vendor and the NCDR) to identify software vendor. This is entered into the schema automatically by vendor software. Vendors must use consistent name identification across sites. Changes to vendor name identification must be approved by the NCDR. Target Value: N/A
Element: 1060	Vendor Software Version
	Coding Instruction: Vendor's software product name and version number identifying the software which created this record (assigned by vendor). Vendor controls the value in this field. This is entered into the schema automatically by vendor software. Target Value: N/A
Element: 1070	Registry Identifier
	Coding Instruction: The NCDR registry identifier describes the data registry to which these records apply. It is implemented in the software at the time the data is collected and records are created. This is entered into the schema automatically by software. Target Value: N/A
Element: 1071	Registry Schema Version
	Coding Instruction: Schema version describes the version number of the Registry Transmission Document (RTD) schema to which each record conforms. It is an attribute that includes a constant value indicating the version of schema file. This is entered into the schema automatically by software. Target Value: N/A
Element: 1085	Submission Type
	Coding Instruction: Indicate if the data contained in the harvest/data file contains either standard patient episode of care records (arrival date to discharge only) or if it contains patient follow-up records. 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.

Section: Administration

Parent: Root

Target Value: N/A

Submission Type

Selection	Definition	Source	Code	Code System
Episode of Care Records Only			1000142424	ACC NCDR
Follow-Up Records Only			1000142425	ACC NCDR