

Section: Demographics	Parent: Root
Flement: 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.
larget 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	: Indicate the number created and automatically inserted by the software that uniquely identifies this patient.
	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 M HL7 Administrative Gender



### AFIB ABLATION REGISTRY<sup>®</sup>

Section: Demo	ographics	Parent: Root
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):
	Target Value	This includes patients who do not have a U.S. residence or are nomeless.
	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):
	Torget Volue	If the patient has multiple race origins, specify them using the other race selections in addition to this one.
	Supporting Definition:	White
	Supporting Demitton.	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 Mava
		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	
Iement: 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: 2076	Hispanic or Latino Ethnicity	
Coding Instruction:	Indicate if the patient is of Hispanic or Latino ethnicity as determined by the patient/family.	
Target Value:	The value on arrival at this facility	
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 E	EMR/EHR or your software ap	plication.
	Target Value:	N/A		
Element: 3001		Arrival Date and Time		
	Coding Instruction:	Indicate the date and time the patient arrived at this facility for this visit.		
		If the arrival date and time are not specified, code the earliest date and time found in the r facility.	medical record indicating the p	patient was at this
	Target Value:	N/A		
	Vendor Instruction:	Patient must be at least 18 years old at the time of Arrival Date and Time (3001)		
Element: 3005		Health Insurance		
	Coding Instruction:	Indicate if the patient has health insurance.		
	Target Value:	The value on arrival at this facility		
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.		
	Target Value:	The value on arrival at this facility		
Pavor Category - 1 3 6	1 / 1 10376 1 / 1 6 5	5		
Selection	Definition	Source	Code	Code System
Private health insurance	Private health in	nsurance is coverage by a health plan	5	PHDSC
	provided throug bv an individual	jh an employer or union or purchased I from a private health insurance		
	company. A hea	alth maintenance organization (HMO) is		
State-specific plan (non	considered priv	rate health insurance. Plans - Some states have their own	36	PHDSC
Medicaid)	health insurance	e programs for low-income uninsured	00	THEOO
	individuals. The	ese health plans may be known by		
Medicare (Part A or B)	Medicare is a h	ealth insurance program for: people age Medicare Program - General Information   CMS	1	PHDSC
	65 or older; peo	ople under age 65 with certain		
	disease (perma	anent kidney failure requiring dialysis or		
	a kidney transp	lant).		
	Medicare Part A	A (Hospital Insurance) –		
	Part A helps co	ver inpatient care in hospitals, including		
	(not custodial o	r long-term care). It also helps cover		
	hospice care ar	nd some home health care.		
	Medicare Part E	3 (Medical Insurance) –		
	Part B helps co	over doctors' services and outpatient		

2

ACC NCDR

PHDSC

112000002025

Medicare Advantage (Part C)

Medicaid

Military health care

Medicare Advantage Plans (Part C) |

care. It also covers some other medical services that Part A doesn't cover, such as some of the services of physical and occupational therapists, and some home health care. Part B helps pay for these covered services and supplies when they are medically

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

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.

Military Health care - Military health care includes

Part C is an alternative way to get Medicare coverage MedicareAdvantage.com

Medicare Part C (Medicare Advantage) -

drug and wellness programs coverage.

necessary.



Section: Episo	de of Care	Parent: Root		
	TRICARE/CHAN Program of the (Civilian Health of Veterans Af Department of	MPUS (Civilian Health and Medical Uniformed Services) and CHAMPVA and Medical Program of the Department iairs), as well as care provided by the Veterans Affairs (VA).		
Indian Health Service Indian Health Service (IHS) is a health care program through which the Department of Health and Human Services provides medical assistance to eligible American Indians at IHS facilities. In addition, the IHS helps pay the cost of selected health care services provided at non-IHS facilities.		ervice (IHS) is a health care program he Department of Health and Human les medical assistance to eligible is at IHS facilities. In addition, the IHS ost of selected health care services -IHS facilities.	33	PHDSC
Non-US insurance	Non-US insura that does not or	nce refers to individuals with a payor iginate in the United States.	100000812	ACC NCDR
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. F	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 r Medicare cards by April 2019. A new Medicare Beneficiary Identifier (MBI) will replace to (HICN) on the new Medicare cards for Medicare transactions like billing, eligibility status)	remove Social Security Numbers he SSN-based Health Insurance s, and claim status.	(SSNs) from all Claim Number
		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 sponsored or associated re-	search study relating to this regis	try.
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 researchers can evaluate the effects of the interventions on biomedical or health-relate the study protocol. Participants may receive diagnostic, therapeutic, or other types of in	more interventions (or no interventions (or no intervend outcomes. The assignments a interventions.	ention) so that re determined by
		Source: Clinicaltrials.gov Glossary of Common Site Terms retrieved from http://clinica	altrials.gov/ct2/about-	

studies/glossary#interventional-study



Section: Resear	rch 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:	Research Study Name (3025) must be a valid study name for the Registry.
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: Physic	cal Exam and Labs	Parent: Root
Element: 6000		Height
Liement. 0000	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: 6010		Pulse
	Coding Instruction:	Indicate the patient's heart rate (beats per minute).
	Target Value:	The last value prior to the start of the first procedure
Element: 6015		Systolic BP
	Coding Instruction:	Indicate the patient's systolic blood pressure in mmHg.
	l'arget value:	The last value prior to the start of the first procedure
Element: 6020		Diastolic BP
	Coding Instruction:	Indicate the patient's diastolic blood pressure in mmHg.
	Target Value:	The last value prior to the start of the first procedure
Element: 6045	Coding Instruction:	International Normalized Ratio (INR)
	county instruction.	
		Note(s): This may include POC (Point of Care) testing results.
		Most recent values prior to the start of the procedure.
	Target Value:	The last value between 1 day prior to the procedure and the current procedure
Element: 6046	<b>.</b>	International Normalized Ratio Not Drawn
	Coding Instruction:	Indicate if INR was not drawn.
	Target value.	
Element: 6050		Creatinine
	Coding Instruction:	Indicate the creatinine (Cr) level mg/dL.
		Note(s):
	Target Values	This may include POC (Point of Care) testing results.
	Target value.	The last value between 50 days prior to the procedure and the current procedure
Element: 6051		Creatinine Not Drawn
	Coding Instruction:	Indicate if a creatinine level was not drawn.
	Target Value:	N/A
Element: 6020		Hamadahin
Element. 6030	Coding Instruction:	
	Soung maruoron.	
		This may include POC (Point of Care) testing results or results obtained prior to arrival at this facility.
	Target Value:	The last value within 30 days prior to the first procedure in this admission
	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



Section: Physical Exam and Labs	Parent: Root
	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: 6031	Hemoglobin Not Drawn
Coding Instruction:	Indicate if the hemoglobin was not drawn.
Target Value:	The last value within 30 days prior to the first procedure in this admission
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
<b>Element:</b> 14280	BNP
Coding Instruction:	Indicate the B-type natriuretic peptide (BNP) value.
Target Value:	The last value between 6 months prior to procedure and the start of the current procedure
Supporting Definition:	Natriuretic peptide B
	Brain natriuretic peptide (BNP) is an active fragment (1-32) of ProBNP which is produced by myocardial cells. It increases in both right- sided and left-sided heart failure as well as in systolic and diastolic heart failure. Thus, it is used to diagnose and manage heart failure. When a patient is taking recombinant PBN (Natricor), BNP will reflect serum levels. NT-ProBNP, an inactive fragment (1-78) of ProBNP is used to assess the degree of failure. Both of these polypeptides have roughly the same predictive power. NT-ProBNP is commonly called ProBNP.
	Source: http://s.details.loinc.org/LOINC/42637-9.html?sections=Simple
Vendor Instruction:	Either BNP (14280) or N-Terminal Pro B-Type Natriuretic Peptide Value (14279) can have a value, not both
Element: 13205	B-Type Natriuretic Peptide Not Drawn
Coding Instruction:	Indicate if a pre-procedure B-type natriuretic peptide (BNP) was not collected.
Target Value:	N/A
-	
Element: 14279	N-Terminal Pro B-Type Natriuretic Peptide Value
Coding Instruction:	Indicate the N-Terminal Pro B-Type Natriuretic Peptide (NT-proBNP) Value.
Target Value:	The last value between 6 months prior to procedure and the start of the current procedure
Supporting Definition:	N-Terminal Pro B-Type Natriuretic Peptide Value
	ProBNP is the 108 amino acid pro-hormone of BNP (Brain Naturetic Peptide) that is produced mainly in the left ventricle. The prohormone splits into two polypeptides- the biologically active but shorter BNP (77-108) and the longer N terminal (1-76) fragment called NT-proBNP. Commercial assays are available for NT-proBNP because of its usefulness in predicting cardiovascular risk. In one study, it was the single best predictor of survival among patients with the acute coronary syndrome. It also declines with successful treatment of left ventricular dysfunctionand heart failure and is used by some to track the success of such treatment. No commercial assays exist for proBNP (the whole peptide)- though the trade name for one companies NT-proBNP is "proBNP" a misnomer. We include proBNP as the a related name for NT-proBNP so that people who call it proBNP will find it in LOINC. Source: Regenstrief Help
	Source: http://s.details.loinc.org/LOINC/33762-6.html?sections=Simple
Vendor Instruction:	Either BNP (14280) or N-Terminal Pro B-Type Natriuretic Peptide Value (14279) can have a value, not both
Element: 13206	N-Terminal Pro B-Type Natriuretic Peptide Not Drawn
Coding Instruction:	Indicate if a pre-procedure N-terminal pro B-type natriuretic peptide (NT-proBNP) was not collected.
Target Value:	N/A



Section: CHA2	DS2-VASC Risk Scor	es Parent: History and Risk Factors
Elemente 4005		CHA2DS2 VASs Congrative Heart Esilura
Element: 4005	Coding Instruction:	CHA2DS2-VASC Congestive Heart Failure
	coung instruction.	
		Note(s): A diagnosis of heart failure must be specifically documented in the medical record and not coded by the abstractor based upon patient symptoms.
	Target Value:	Any occurrence between 30 days prior to the procedure and the procedure
	Supporting Definition:	CHA2DS2-VASc Congestive Heart Failure
		The presence of signs and symptoms of either right (elevated central venous pressure, hepatomegaly, dependent edema) or left ventricular failure (exertionaldyspnea, cough, fatigue, orthopnea, paroxysmal nocturnal dyspnea, cardiac enlargement, rales, gallop rhythm, pulmonary venous congestion) or both, confirmed by non-invasive or invasive measurements demonstrating objective evidence of cardiac dysfunction.
		<b>Source:</b> Refining clinical risk stratification for predicting stroke and thromboembolism in atrial fibrillation using a novel risk factor-based approach: the euro heart survey on atrial fibrillation Lip GH, Nieuwlaat R, Pisters R, Lane DA, Crijns HM. Chest.2010;137(2):263-272.
Element: 4015		CHA2DS2-VASc LV Dysfunction
	Coding Instruction:	Indicate if the patient has been diagnosed with Left Ventricular (LV) Dysfunction according to the CHA2DS2-VASc definition.
	Target Value:	Any occurrence between 30 days prior to the procedure and the procedure
	Supporting Definition:	CHA2DS2 -VASc LV Dysfunction
		Left Ventricular Ejection Fraction < 40%.
		<b>Source:</b> Refining clinical risk stratification for predicting stroke and thromboembolism in atrial fibrillation using a novel risk factor-based approach: the euro heart survey on atrial fibrillation Lip GH, Nieuwlaat R, Pisters R, Lane DA, Crijns HM. Chest.2010;137(2):263-272.
Element: 4020		CHA2DS2-VASc Hypertension
	Coding Instruction:	Indicate if the patient has been diagnosed with hypertension according to the CHA2DS2-VASc definition.
	Target Value:	Any occurrence between 30 days prior to the procedure and the procedure
	Supporting Definition:	CHA2DS2-VASc Hypertension
		A resting blood pressure >140mmHg systolic and/or >90mmHg diastolic on at least 2 occasions or current antihypertensive pharmacologic treatment.
		<b>Source:</b> Refining clinical risk stratification for predicting stroke and thromboembolism in atrial fibrillation using a novel risk factor-based approach: the euro heart survey on atrial fibrillation Lip GH, Nieuwlaat R, Pisters R, Lane DA, Crijns HM. Chest.2010;137(2):263-272.
Element: 4025		CHA2DS2-VASc Diabetes Mellitus
	Coding Instruction:	Indicate if the patient has been diagnosed with diabetes mellitus according to the CHA2DS2-VASc definition.
	Target Value:	Any occurrence between 30 days prior to the procedure and the procedure
	Supporting Definition:	CHA2DS2-VASc Diabetes Mellitus
		Fasting plasma glucose level ≥ 7.0 mmol/L (126 mg/dL) or treatment with oral hypoglycaemic agent and/or insulin.
		<b>Source:</b> Refining clinical risk stratification for predicting stroke and thromboembolism in atrial fibrillation using a novel risk factor-based approach: the euro heart survey on atrial fibrillation Lip GH, Nieuwlaat R, Pisters R, Lane DA, Crijns HM. Chest.2010;137(2):263-272.
Element: 4045		CHA2DS2-VASc Vascular Disease
	Coding Instruction:	Indicate if the patient has been diagnosed with vascular disease according to the CHA2DS2-VASc definition.
	Target Value:	Any occurrence between birth and the procedure
	Supporting Definition:	CHA2DS2-VASc Vascular Disease
		Coronary artery disease: Prior myocardial infarction, angina pectoris, percutaneous coronary intervention or coronary artery bypasses surgery.
		Peripheral vascular disease: The presence of any the following: intermittent claudication, previous surgery or percutaneous intervention on the abdominal aorta or the lower extremity vessels, abdominal or thoracic surgery, arterial and venous thrombosis.
		<b>Source:</b> Refining clinical risk stratification for predicting stroke and thromboembolism in atrial fibrillation using a novel risk factor-based approach: the euro heart survey on atrial fibrillation Lip GH, Nieuwlaat R, Pisters R, Lane DA, Crijns HM. Chest.2010;137(2):263-272.
Element: 4030		CHA2DS2-VASc Stroke
	Coding Instruction:	Indicate if the patient has been diagnosed with an ischemic stroke, according to the CHA2DS2-VASc definition, or a stroke with undetermined origin.
		Note: If the stroke was Hemorrhagic in origin code 'No.'
	Target Value:	Any occurrence between birth and the procedure



Section: CHA2DS2-VASC Risk Sco	res Parent: History and Risk Factors
Supporting Definition:	CHA2DS2-VASc Stroke
	Ischemic stroke is defined as a focal neurologic deficit of sudden onset as diagnosed by a neurologist, lasting > 24 h and caused by ischemia.
	<b>Source:</b> Refining clinical risk stratification for predicting stroke and thromboembolism in atrial fibrillation using a novel risk factor-based approach: the euro heart survey on atrial fibrillation Lip GH, Nieuwlaat R, Pisters R, Lane DA, Crijns HM. Chest.2010;137(2):263-272.
Element: 4035	CHA2DS2-VASc TIA
Coding Instruction:	Indicate if the patient has been diagnosed with a transient ischemic attack (TIA) according to the CHA2DS2-VASc definition.
Target Value:	Any occurrence between birth and the procedure
Supporting Definition:	CHA2DS2-VASc TIA
	Transient ischemic attack (TIA) is defined as a focal neurologic deficit of sudden onset as diagnosed by a neurologist, lasting < 24 hr.
	Source: Refining clinical risk stratification for predicting stroke and thromboembolism in atrial fibrillation using a novel risk factor-based approach: the euro heart survey on atrial fibrillation. Lip GH, Nieuwlaat R, Pisters R, Lane DA, Crijns HM. Chest. 2010;137(2):263-272.
Element: 4040	CHA2DS2-VASc Thromboembolic Event
Coding Instruction:	Indicate if the patient has been diagnosed with a thromboembolic event (TE) according to the CHA2DS2-VASc definition.
Target Value:	Any occurrence between birth and the procedure
Supporting Definition:	Thromboembolic Events
	Thrombolembolic Event (TE) is defined as either an ischemic stroke, peripheral embolism, or pulmonary embolism. Peripheral embolism is defined as a TE outside the brain, heart, eyes, and lungs. Pulmonary embolism is defined by the responsible physician.
	Source:



### Section: Condition History

### Parent: History and Risk Factors

### Condition History Name

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Element: 12903

Condition instory reame

Coding Instruction: Select from the following list medical conditions based on prior diagnoses (or orders, such as for medication) given to the patient. Additional definitions below for those selections that may need additional clarification.

Target Value: N/A

### Condition History Name - 1.3.6.1.4.1.19376.1.4.1.6.5.340

Selection	Definition	Source	Code	Code System
Symptoms During Afib/Aflutter		41875	99008+106063007:=195080001	SNOMED CT
Cardiomyopathy			85898001	SNOMED CT
Chronic Lung Disease	Coding requires a documented history or diagnosis of a chronic lung disease. Examples of these are: chronic inhalation reactive disease (asbestosis, mesothelioma, black lung disease or pneumoconiosis), Radiation induced pneumonitis or radiation fibrosis, chronic obstructive pulmonary disease, chronic bronchitis, or emphysema.		413839001	SNOMED CT
	It can also include a patient who is currently being chronically treated with inhaled or oral pharmacological therapy (e.g., beta-adrenergic agonist, anti-inflammatory agent, leukotriene receptor antagonist, or steroid).			
	Patients not included are: history of a transient condition, for example: atelectasis. Patients with asthma or seasonal allergies are also not considered to have chronic lung disease.			
Coronary Artery Disease	Other documentation that can be used to support a history of CAD: Coronary artery stenosis >=50% (by cardiac catheterization or other modality or of direct imaging of the coronary arteries) * Previous CABG surgery * Previous PCI * Previous MI		53741008	SNOMED CT
Sleep Apnea	Sleep apnea must be diagnosed by a provider or by sleep study. *Do not capture suspected sleep apnea or that reported by family members as sleep apnea. *Both Obstructive and Central Sleep Apnea are captured. *Code "No" if sleep apnea has been surgically corrected. *CPAP or BiPAP therapy is not a requirement to code "Yes" for sleep apnea.		73430006	SNOMED CT
Valvular Atrial Fibrillation	Consider this selection if atrial fibrillation is present in the setting of valvular heart disease and believed to be, at least in part, directly attributable to valvular heart disease *Must be diagnosed by a provider.		100001118	ACC NCDR
Element: 15510	Condition History Occu	rrence		
	Coding Instruction: Please indicate whether the	patient has or has not had a clinical diagnosis of the resp	pective medical condition.	

Please refer to "Condition History 12903" to view a list of selections and definitions.

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



### Section: Condition History Details

### Parent: History and Risk Factors

### Symptoms Experienced

Element: 15723

Coding Instruction: Indicate the symptoms that are documented in the medical record that are due to atrial fibrillation or atrial flutter.

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

### Symptoms Prior to Ablation - 1.3.6.1.4.1.19376.1.4.1.6.5.948

Selection	Definition	Source	Code	Code System
Anxiety			48694002	SNOMED CT
Chest pain			29857009	SNOMED CT
Dyspnea at rest			161941007	SNOMED CT
Dyspnea on exertion			60845006	SNOMED CT
Fatigue			84229001	SNOMED CT
Irregular heartbeat			361137007	SNOMED CT
Light-headedness			386705008	SNOMED CT
Palpitations			80313002	SNOMED CT
Other			112000003645	ACC NCDR

Element: 4570

Cardiomyopathy Type

Coding Instruction: Indicate the type of cardiomyopathy experienced by the patient.

Note(s):

If the patient has had multiple cardiomyopathies, select all applicable types.

Target Value: Any occurrence between birth and the procedure

### Cardiomyopathy Type - 1.3.6.1.4.1.19376.1.4.1.6.5.193

Selection	Definition	Source	Code	Code System
Hypertrophic	Characterized morphologically and defined by a hypertrophied, nondilated LV in the absence of anoth systemic or cardiac disease that is capable of producing the magnitude of wall thickening evident (e systemic hypertension, aortic valve stenosis). Clinica diagnosis is customarily made with 2-dimensional echocardiography (or alternatively with cardiac magnetic resonance imaging) by detection of otherwise unexplained LV wall thickening, usually in the presence of a small LV cavity, after suspicion is raised by the clinical profile or as part of family screening.	er g, I	233873004	SNOMED CT
Ischemic	Considered to be present in patients with HF who has had a myocardial infarction (MI) or have evidence of viable hibernating myocardium or, on angiography, severe coronary disease. The term ischemic cardiomyopathy has been used to describe significantly impaired left ventricular function (left ventricular ejection fraction <=35 to 40 percent) that results from coronary artery disease. Despite the common clinical use of the term ischemic cardiomyopathy, ventricular dysfunction caused by coronary disease is not a cardiomyopathy as defined by the 2006 American Heart Association and 2008 European Society of Cardiology statements.	ve	426856002	SNOMED CT
Non-ischemic	Includes cardiomyopathies resulting from volume or pressure overload, such as hypertension or valvular heart disease.		111000119104	SNOMED CT
Restrictive	Non Hypertrophied, Non Dilated: A rare form of heart muscle disease and a cause of heart failure that is characterized by normal or decreased volume of both ventricles associated with biatrial enlargement, norma LV wall thickness and AV valves, impaired ventricula filling with restrictive physiology, and normal (or near normal) systolic function.	n al r	415295002	SNOMED CT
Other	The term "unclassified cardiomyopathy" was include in the 2008 ESC classification system to describe disorders that do not readily fit into any of the above phenotypic categories [3]. Examples cited include LV noncompaction and stress-induced (takotsubo) cardiomyopathy.	d	100001065	ACC NCDR
Element: 4585	Sleep Apnea Recommended T	reatment Followed		

Coding Instruction: Indicate if the patient followed the sleep apnea treatment plan recommended.



### Section: Condition History Details

Parent: History and Risk Factors

Target Value: Any occurrence between birth and the procedure

Element: 4390

Mechanical Valve in Mitral Position

Coding Instruction: Indicate if the patient has a mechanical valve placed in the mitral position.

Target Value: Any occurrence between birth and the procedure



### Section: History and Risk Factors

Parent: History and Risk Factors

### Element: 4400 Atrial Fibrillation Classification

Coding Instruction: Indicate the type of atrial fibrillation experienced by the patient.

Note: If more than one Atrial Fibrillation Classification is documented, use the most recent classification that prompted the current ablation.

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

### Atrial Fibrillation Classification - 1.3.6.1.4.1.19376.1.4.1.6.5.17

Selection	Definition	Source	Code	Code System
Paroxysmal	AF that terminates spontaneously or with intervention within 7 days of onset. Episodes may recur with variable frequency. Classification 3A		26593000	SNOMED CT
Persistent	Continuous AF that is sustained >7 days or with electrical or pharmacological termination. Classification 3B		62459000	SNOMED CT
LS - Persistent	Continuous AF of >12 months duration. Classification 3C		100001029	ACC NCDR

### Element: 4455

Atrial Flutter Classification

Coding Instruction: Indicate the presence of, as well as the predominant type of atrial flutter experienced by the patient.

Note:

- In the absence of physician documentation identifying the Aflutter Classification, please select 'Typical / CTI dependent'.

- If both Classifications are documented, please select 'Typical / CTI dependent'

Target Value: Any occurrence between birth and the procedure

### Supporting Definition: Atrial Flutter Type

Atrial flutter is further classified into typical or atypical dependent on whether or not re-entry is dependent upon conduction through the cavotricuspid isthmus.

Source: January CT, Wann LS, Alpert JS, Calkins H, Cleveland Jr JC, Cigarroa JE, Conti JB, Ellinor PT, Ezekowitz MD, Field ME, Murray KT, Sacco RL, Stevenson WG, Tchou PJ, Tracy CM, Yancy CW, 2014 AHA/ACC/HRS Guideline for the Management of Patients With Atrial Fibrillation, Journal of the American College of Cardiology (2014), doi: 10.1016/j.jacc.2014.03.022.

### Atrial Flutter Classification - 1.3.6.1.4.1.19376.1.4.1.6.5.191

Selection	Definition	Source	Code	Code System
No			100013073	ACC NCDR
Yes - Typical/CTI Dependent	Typical atrial flutter is a macro-re-entrant atrial tachycardia that usually proceeds up the atrial septum down the lateral atrial wall, and through the cavotricuspid (subeustachian) isthmus between the tricuspid valve annulus and inferior vena cava, where it is commonly targeted for ablation.	n, 9	100000982	ACC NCDR
Yes - Atypical	Atypical flutter, or "noncavotricuspid isthmus- dependent macro-re-entrant atrial tachycardia", describes macro-re-entrant atrial tachycardias that ar not one of the typical forms of atrial flutter that use the cavotricuspid isthmus.	e e	112231000	SNOMED CT



### Section: Procedure History

Parent: History and Risk Factors

#### Element: 12905 Procedure History Name

Coding Instruction: The procedures listed in this field are controlled by the Procedure 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

### Procedure History Name - 1.3.6.1.4.1.19376.1.4.1.6.5.341

Selection	Definition	Source	Code	Code System
AV Node ablation with Pacemaker Implantation			428663009+307280005	SNOMED CT
Left Atrial Appendage Occlusion			112000002070	ACC NCDR
Atrial Fibrillation Termination Attempt	Therapeutic options for conversion of AF to sinus rhythm includes: antiarrhythmic drugs, direct current cardioversion, catheter ablation and surgical ablation	McNamara RL, Brass LM, Drozda JP, Jr, et al. ACC/AHA key data elements and definitions for measuring the clinical management and outcomes of patients with atrial fibrillation: A report of the American College of Cardiology/American Heart Association Task Force on clinical data standards (writing committee to develop data standards on atrial fibrillation). J Am Coll Cardiol. 2004;44(2):475- 495	100000936	ACC NCDR
Atrial Flutter Termination Attempt	Therapeutic options for conversion of atrial flutter to sinus rhythm includes: antiarrhythmic drugs, direct current cardioversion, and catheter ablation.	McNamara RL, Brass LM, Drozda JP, Jr, et al. ACC/AHA key data elements and definitions for measuring the clinical management and outcomes of patients with atrial fibrillation: A report of the American College of Cardiology/American Heart Association Task Force on clinical data standards (writing committee to develop data standards on atrial fibrillation). J Am Coll Cardiol. 2004;44(2):475- 495.	100000937	ACC NCDR
Element: 14268	Procedure History Occurren	Ce		

iement. 14200

Procedure History Occurrence

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

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



Section: Procedure History Details	Parent: History and Risk Factors
Element: 4415	Atrial Fibrillation Termination - Pharmacologic Cardioversion
Coding Instruction:	Indicate if the patient has a history of pharmacological cardioversion.
	These elements will be coded with successful as well as unsuccessful attempts.
Target Value:	Any occurrence between birth and the procedure
Supporting Definition:	Pharmacologic Cardioversion
	Antiarrhythmic drugs can be administered for attempted conversion of AF to sinus rhythm or to facilitate electrical cardioversion.
	<b>Source:</b> January CT, Wann LS, Alpert JS, et al. 2014 AHA/ACC/HRS Guideline for the Management of Patients With Atrial Fibrillation: A Report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines and the Heart Rhythm Society. J Am Coll Cardiol 2014. DOI: 10.1016/j.jacc.2014.03.022
Element: 4420	Atrial Fibrillation Termination - DC Cardioversion
Coding Instruction:	Indicate if the patient has a history of direct current (DC) cardioversion.
	These elements will be coded with successful as well as unsuccessful attempts
Target Value:	Any occurrence between birth and the procedure
Supporting Definition:	DC Cardioversion
	Direct-current cardioversion involves the delivery of an electrical shock synchronized with the QRS complex to avoid inducing ventricular fibrillation as can occur by a shock applied during ventricular repolarization on the T wave.
	<b>Source:</b> January CT, Wann LS, Alpert JS, et al. 2014 AHA/ACC/HRS Guideline for the Management of Patients With Atrial Fibrillation: A Report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines and the Heart Rhythm Society. J Am Coll Cardiol 2014. DOI: 10.1016/j.jacc.2014.03.022
Element: 4425	Atrial Fibrillation Termination - Catheter Ablation
Coding Instruction:	Indicate if the patient has a history of catheter ablation for termination of atrial fibrillation.
	These elements will be coded with successful as well as unsuccessful attempts.
Target Value:	Any occurrence between birth and the procedure
Supporting Definition:	Catheter Ablation
	Various methods of catheter ablation are used. Currently most techniques focus on isolating the triggers in the pulmonary veins (PVs) from the vulnerable substrate in the left atrium. The majority of ablations performed use radiofrequency energy or cryothermy (cryoballoon ablation).
	<b>Source:</b> January CT, Wann L, Alpert JS, et al. 2014 AHA/ACC/HRS Guideline for the Management of Patients With Atrial Fibrillation: A Report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines and the Heart Rhythm Society. J Am Coll Cardiol. 2014;64(21):e1-e76.
Element: 4430	Atrial Fibrillation Most Recent Catheter Ablation Date
Coding Instruction:	Indicate the date of the most recent attempt to terminate the atrial fibrillation via catheter ablation.
	Note(s):
	If the month or day is unknown, please code 01/01/YYYY. If the specific year is unknown in the current record, the year may be estimated based on timeframes found in prior medical record documentation (Example: If the patient had "most recent ablation" documented in a record from 2011, then the year 2011 can be utilized and coded as 01/01/2011).
Target Value:	Any occurrence between birth and the procedure
Element: 4435	Prior Catheter Ablation Strategy
Coding Instruction:	Indicate the previously attempted catheter ablation strategy/strategies used to treat the atrial fibrillation.
	Note(s): The strategies that should be collected in your application are controlled by Ablation Strategy 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:	Any occurrence between birth and the procedure
Ablation Strategy - 1.3.6.1.4.1.19376.1.4.1.6.	5.211

Selection	Definition	Source	Code	Code System
Complex Fractionated Atrial Electrogram	An ablation strategy targeting areas of continuous high -frequency (complex fractionated) atrial electrograms.		100000910	ACC NCDR
Convergent Procedure	The convergent procedure consists of epicardial (Epi) followed by endocardial (Endo) radio-frequency ablation in patients (pts) with atrial fibrillation (AF), deemed at high risk of recurrence with endo ablation only.		100000911	ACC NCDR



Section: Procedure H	listory Details		Parent: History and Risk Factors	
Cryoablation	Cryoablation, o coolant being re freeze and abla	r freezing technology, involves a eleased into the catheter's balloon to te the tissue.	233161001	SNOMED CT
Empiric LA Linear Lesions	An ablation stra lesions (such as may accompan with a goal of p left atrial flutter.	tegy that can include adjunctive linear s a roof line or mitral annular line) that y WACA, PVI, or other approaches, reventing development of subsequent	100000912	ACC NCDR
Focal Ablation An ablation strategy putative triggers of at a trigger of AF or jus accompanies AF or theranies (i.e. is a st		tegy targeting one or more foci of s of atrial fibrillation. Ablation may be of or just of a focal atrial tachycardia that F or emerges following previous AF s a stand-alone rhythm).	100000913	ACC NCDR
Ganglion Plexus Ablation	An ablation stra autonomic nerv	tegy targeting one or more regions of e plexi around the left atrium.	100000914	ACC NCDR
Pulmonary Vein Isolation	An ablation stra of atrial myocar from the body o	tegy defined as electrical disconnection dium extending into the pulmonary veins f the left atrium.	100000915	ACC NCDR
Pulsed Field Ablation	Pulsed field abl nonthermal irrev cardiac cell dea	ation uses electrical pulses to cause versible electroporation and induce th.	112000003642	ACC NCDR
Rotor Based Mapping	An ablation stra technology emp rotors.	tegy guided by mapping software loyed to identify specific atrial fibrillation	100000917	ACC NCDR
Segmental PV Ablation An ablation stra of pulmonary w the body of the and/or circumfe		tegy with the goal of electrical isolation enous atrial tachycardia triggers from left atrium by ablating segmentally rentially within a vein or near the	100000916	ACC NCDR
Wide Area Circumferential Ablation	An ablation stra circumferential and left venous modification, iso This approach o entrance block	tegy that includes placement of large ablation lesion sets encircling the right antra with the goal of either substrate plation of the pulmonary veins, or both. generally implies that formal testing for and/or exit block is NOT performed.	100000918	ACC NCDR
Element: 4440		Atrial Fibrillation Termination - Su	urgical Ablation	
Cod	ling Instruction:	Indicate if the patient has a history of su	urgical ablation.	
	Target Value:	Any occurrence between birth and the	procedure	
Suppo	rting Definition:	Surgical Ablation		
		The Maze operation is one surgical abl therapy.	ation option treat patients with both paroxysmal and chronic AF refractory	/ to antiarrhythmic
		<b>Source:</b> The surgical treatment of atr	ial fibrillation. IV. Surgical technique. Cox JL . J Thorac Cardiovasc Surg.	1991;101(4):584.
Element: 4445		Atrial Fibrillation, Most Recent S	urgical Ablation Date	
Cod	ling Instruction:	Indicate the date of the most recent atte	empt to terminate the atrial fibrillation via surgical ablation.	
		Note(s): If the month or day is unknown, please estimated based on timeframes found in documented in a record from 2011, the	e code 01/01/YYYY. If the specific year is unknown in the current record, n prior medical record documentation (Example: If the patient had "most re n the year 2011 can be utilized and coded as 01/01/2011).	the year may be ecent surgical ablation"
	Target Value:	Any occurrence between birth and the	procedure	
Element: 4465		Atrial Flutter Termination - Pharm	nacologic Cardioversion	
Cod	ling Instruction:	Indicate if the patient has a history of pl	harmacologic cardioversion to terminate the atrial flutter.	
	Target Value:	Any occurrence between birth and the	procedure	
Suppo	rting Definition:	Pharmacologic Cardioversion	red for attempted conversion of AE to sinus that more to facilitate electric	al cordiovaraion
		Source: January CT, Wann LS, Alper Report of the American College of Card Society. J Am Coll Cardiol 2014. DOI: 11	t JS, et al. 2014 AHA/ACC/HRS Guideline for the Management of Patients liology/American Heart Association Task Force on Practice Guidelines and 0.1016/j.jacc.2014.03.022	With Atrial Fibrillation: A the Heart Rhythm
Element: 4470		Atrial Flutter Termination - DC Ca	ardioversion	
Cod	ling Instruction:	Indicate if the patient has a history of D	C cardioversion to terminate the atrial flutter.	
	Target Value:	Any occurrence between birth and the	procedure	



Section. Proce	aure history Details	Farent. History and Kisk Factors
	Supporting Definition:	DC Cardioversion
		Direct-current cardioversion involves the delivery of an electrical shock synchronized with the QRS complex to avoid inducing ventricular fibrillation as can occur by a shock applied during ventricular repolarization on the T wave.
		Source: January CT, Wann LS, Alpert JS, et al. 2014 AHA/ACC/HRS Guideline for the Management of Patients With Atrial Fibrillation: A Report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines and the Heart Rhythm Society. J Am Coll Cardiol 2014. DOI: 10.1016/j.jacc.2014.03.022
Element: 4475		Atrial Flutter Termination - Catheter Ablation
	Coding Instruction:	Indicate if the patient has a history of catheter ablation to terminate the atrial flutter.
	Target Value:	Any occurrence between birth and the procedure
Element: 4480		Atrial Flutter Most Recent Catheter Ablation Date
	Coding Instruction:	Indicate the date of the most recent catheter ablation.
		Note(s): If the month or day is unknown, please code 01/01/YYYY. If the specific year is unknown in the current record, the year may be estimated based on timeframes found in prior medical record documentation (Example: If the patient had "most recent ablation" documented in a record from 2011, then the year 2011 can be utilized and coded as 01/01/2011).

Target Value: Any occurrence between birth and the procedure



# Section: Diagnostic Studies Parent: Root Element: 5100 Atrial Rhythm Coding Instruction: Indicate the patient's atrial rhythm at the start of the procedure. Note(s): If the patient has multiple atrial rhythms, select all that apply. In the event that a patient is ventricular paced, indicate the underlying atrial rhythm. Target value applies to the first procedure captured for this registry. If no ECG is available, a pre-procedure 6 inch cardiac rhythm strip or clinician documentation may be utilized to obtain this information.

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

Selection	Definition	Source	Code	Code System
Atrial fibrillation			49436004	SNOMED CT
Atrial flutter			5370000	SNOMED CT
Atrial paced			251268003	SNOMED CT
Atrial tachycardia			276796006	SNOMED CT
Sinus			106067008	SNOMED CT
Sinus arrest			5609005	SNOMED CT
Element: 5110		LVEF Assessed		
	Coding Instruction:	Indicate if a left ejection fraction percentage has been assessed.		
		Note(s): If the LVEF is measured during the episode of care, and documented in the medical record, it can be used. There is no requirement for the LVEF to be documented in a formal diagnostic report. LVEF values obtained prior to first medical contact are not used for coding. Enter a percentage in the range of 1-99. If a percentage range is reported, code the lowest number in the range (i.e. 50-55%, is reported as 50%). In cases of conflicting measurements, the clinician should specify which value best represents the LVEF closest to discharge and this should be noted in the medical record to support coding. If only a descriptive value is reported (i.e. normal), enter the corresponding percentage value from the list below: Normal = 60% Good function = 50% Mildly reduced = 45% Fair function = 40% Moderately reduced = 30% Poor function = 25% Severely reduced = 20%		
	Target Value:	The last value between 90 days prior to the start of the current procedure and the start of proce	edure	
Element: 5115		Most Recent LVEF %		
	Coding Instruction:	Indicate 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 lower reported as 50%).	est number of the range	e (i.e. 50 - 55%, is
	Target Value:	The last value between 90 days prior to the start of the current procedure and the start of proce	edure	
	Supporting Definition:	Most Recent LVEF %		
		The left ventricular election fraction is the percentage of blood emptied from the left ventricle at	the end of contraction.	
		Source: ACC Clinical Data Standards, Society for Thoracic Surgeons Adult Cardiac Surgery E	atabase (STS)	
Element: 5120		Transthoracic Echo (TTE) Performed		
	Coding Instruction:	Indicate if a transthoracic echocardiogram (TTE) was performed prior to the procedure.		
	Target Value:	The last value between 90 days prior to the start of the current procedure and the start of proce	edure	
Element: 5125		Most Recent TTE Date		
	Coding Instruction:	Indicate the date of the most recent transthoracic echocardiogram (TTE) performed and used to	evaluate the patient fo	r this intervention.
	Target Value:	The last value between 90 days prior to the start of the current procedure and the start of proce	edure	
<b>.</b>				
Element: 15707		Echocardiogram Results		
	Coding Instruction:	Indicate the echocardiography results that were present during the most recent transthoracic en	chocardiogram.	



### Section: Diagnostic Studies

Parent: Root

Notes: Include any enlargement or hypertrophy of the heart as well as the severity.

Enter "none" if there was no hypertrophy identified.

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

Selection	Definition	Source	Code	Code System
Atrial thrombus detected			396339007:123005000=59652004	SNOMED CT
LV hypertrophy - nor	ne		100001231	ACC NCDR
Mild LV hypertrophy			255604002	SNOMED CT
Moderate LV hypertrophy			6736007	SNOMED CT
Severe LV hypertrophy			24484000	SNOMED CT
LA Not enlarged			253352002:116676008=442021009,17621005	SNOMED CT
Mild LA Enlargement			253352002:116676008=442021009,255604002	SNOMED CT
Moderate LA enlargement			253352002:116676008=442021009,6736007	SNOMED CT
Severe LA enlargement			253352002:116676008=442021009,24484000	SNOMED CT
RA Not enlarged			253339007:116676008=442021009,17621005	SNOMED CT
Mild RA Enlargement			253339007:116676008=442021009,255604002	SNOMED CT
Moderate RA enlargement			253339007:116676008=442021009,6736007	SNOMED CT
Severe RA Enlargement			253339007:116676008=442021009,24484000	SNOMED CT
Element: 5150		Mitral Stenosis		

**Coding Instruction:** Indicate if the patient has mitral valve stenosis.

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

Element: 5145 Mitral Regurgitation

**Coding Instruction:** Indicate the severity of regurgitation through the mitral valve.

Note(s): Code the highest value or most severe regurgitation when a range is reported.

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

Supporting Definition: Mitral Regurgitation

The approach to the evaluation of mitral regurgitation (aka. Mitral insufficiency) severity ideally integrates multiple parameters rather than depends on a single measurement.

Source: Recommendations for Evaluation of the Severity of Native Valvular Regurgitation with Two-dimensional and Doppler Echocardiography: J Am Soc Echocardiogr 2003;16:777-802

### Mitral Regurgitation - 1.3.6.1.4.1.19376.1.4.1.6.5.215

Selection	Definition	Source	Code	Code System
None			100001231	ACC NCDR
Trace/Trivial			100001111	ACC NCDR
Mild			255604002	SNOMED CT
Moderate			6736007	SNOMED CT
Moderate-Severe			100001045	ACC NCDR
Severe			24484000	SNOMED CT

Element: 5170

Baseline Imaging Performed

Coding Instruction: Indicate if pre-procedure imaging was performed.

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

Coding Instruction: Indicate if pre-procedure imaging was performed via CT.

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

Element: 5185



Section: Diagnostic Studies	Parent: Root
Coding Instruction: Target Value:	Indicate if pre-procedure imaging was performed via MRI. The last value between 90 days prior to the start of the current procedure and the start of procedure
Element: 5155	Transesophageal Echocardiogram (TEE) Performed
Coding Instruction:	Indicate if transesophageal echocardiogram (TEE) was performed prior to the procedure.
Target Value:	The last value between 90 days prior to the start of the current procedure and the start of procedure
Element: 5165	Atrial Thrombus Detected
Coding Instruction:	Indicate if an atrial thrombus was detected.
	Note(s): Code 'Yes' for either probable or definitive diagnoses of thrombus.
Target Value:	The last value between 90 days prior to the start of the current procedure and the start of procedure
Supporting Definition:	Atrial Thrombus Detected
	Presence of thrombus is considered to be definite if 3 of the following 5 criteria are present: Clear borders, echogenicity from the surrounding structures, independent mobility, longest diameter > 15mm, seen in more than one echocardiographic plane.
	<b>Source:</b> Buxton AE, Calkins H, Callans DJ, et al. ACC/AHA/HRS 2006 Key Data Elements and Definitions for Electrophysiological Studies and Procedures: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Data Standards (ACC/AHA/HRS Writing Committee to Develop Data Standards on Electrophysiology). J Am Coll Cardiol. 2006;48(11):2360-2396.



Section: Pre-Procedure Medications	Parent: Root

### Element: 6985 Pre-procedure Medication Code

Coding Instruction: Indicate the prescribing history and administration status (past, current, held, never) of each medication.

Note(s): The medications that should be collected in your application are controlled by a Medication Master file. This file is maintained by the NCDR and will be made available on the internet for downloading and importing/updating into your application. Each medication in the Medication Master file is assigned a timing indicator. This indicator is used to separate procedural medications from medications prescribed at discharge. The separation of these medications is depicted on the data collection form.

Target Value: Any occurrence within 24 hours prior to start of current procedure

Vendor Instruction: Pre-procedure Medication Code (6985) should not be duplicated in an episode

#### Pre-Procedure Medication - 1.3.6.1.4.1.19376.1.4.1.6.5.216

Selection	Definition	Source	Code	Code System
Amiodarone			703	RxNorm
Angiotensin converting enzyme inhibitor (ACE-I) (An	у)		41549009	SNOMED CT
Angiotensin receptor blocker (ARB) (Any)			372913009	SNOMED CT
Angiotensin II receptor block neprilysin inhibitor (ARNI)	er		1656341	RxNorm
Apixaban			1364430	RxNorm
Aspirin			1191	RxNorm
Aspirin, Extended-Release Dipyridamole			226718	RxNorm
Beta blocker (Any)			33252009	SNOMED CT
Betrixaban			1927851	RxNorm
Cangrelor			1656052	RxNorm
Clopidogrel			32968	RxNorm
Dabigatran			1546356	RxNorm
Digoxin			3407	RxNorm
Diltiazem			3443	RxNorm
Disopyramide			3541	RxNorm
Dofetilide			49247	RxNorm
Dronedarone			233698	RxNorm
Edoxaban			1599538	RxNorm
Flecainide			4441	RxNorm
GLP-1 agonist			772985004	SNOMED CT
Heparin Derivative			100000921	ACC NCDR
Low Molecular Weight Hepar	in		373294004	SNOMED CT
Prasugrel			613391	RxNorm
Procainamide			8700	RxNorm
Propafenone			8754	RxNorm
Quinidine			9068	RxNorm
Rivaroxaban			1114195	RxNorm
SGLT inhibitor			11200003634	ACC NCDR
Sotalol			9947	RxNorm
Ticagrelor			1116632	RxNorm
Ticlopidine			10594	RxNorm
Unfractionated Heparin			96382006	SNOMED CT
Verapamil			11170	RxNorm
Vorapaxar			1537034	RxNorm
Warfarin			11289	RxNorm

#### **Element: 6990**

### Pre-procedure Medication Administered

Coding Instruction: Indicate the prescribing history and administration status (past, current, held, never) of each medication.

Target Value: Any occurrence within 24 hours prior to start of current procedure

Vendor Instruction: When Pre-procedure Medication Code (6985) is answered, Pre-procedure Medication Administered (6990) cannot be Null.

### Pre-procedure Medication Administration - 1.3.6.1.4.1.19376.1.4.1.6.5.44

Selection	Definition	Source	Code	Code System
Past	Code 'Past' if the medication was tried previously prior this hospital visit, and then discontinued with no intent to resume the medication after recovering from the ablation procedure.		100001070	ACC NCDR
Current	Code 'Current' if the patient is taking this me prior to the procedure and the medication h	dication as neither	100000987	ACC NCDR



Section: Pre-Procedure Medications		Parent: Root		
	been held nor stopped for the procedure or if the patient has an active or a new prescription and is taking this medication.			
Held	Code 'Held' if the patient is routinely taking this medication, yet the medication was temporarily not administered prior to the procedure with an intent to resume the medication after recovering from the procedure.		100001010	ACC NCDR
Never	Code 'Never' if this medication was never prescribed for this patient.		100001046	ACC NCDR



Section: Procedure Information		Parent: Root		
Element: 7000		Procedure Start Date and Time		
	Coding Instruction:	Indicate the date and time the procedure started. The time of the procedure is the time that the equivalent, was made in order to start the procedure.	skin incision, vascular a	access, or its
		Note(s): Indicate the date/time (mm/dd/yyyy hours:minutes) using the military 24-hour clock, beginning at	t midnight (0000 hours).	
	Target Value:	Any occurrence on current procedure		
	Vendor Instruction:	Procedure Start Date and Time (7000) must be Greater than or Equal to Arrival Date and Time (	3001)	
		Procedure Start Date and Time (7000) must be Greater than or Equal to Most Recent TTE Date	(5125)	
		Procedure Start Date and Time (7000) must be unique within an episode of care		
Element: 7025		Procedure Status		
	Coding Instruction:	Indicate the status of the procedure.		
	Target Value:	The value on current procedure		
Procedure Status - 1	.3.6.1.4.1.19376.1.4.1.6	5.226		
Selection	Definition	Source	Code	Code System
Inpatient	Treatment/Billin admitted to the	g status of the patient: Patient has been hospital.	416800000	SNOMED CT
Outpatient	Patient/Billing s	atus: Patient is an outpatient admission.	373864002	SNOMED CT
Element: 7005		Procedure End Date and Time		
	Coding Instruction:	Indicate the ending date and time at which the operator completes the procedure and breaks so	crub at the end of the p	rocedure.
		Note(s): If more than one operator is involved in the case then use the date and time the last operator but	reaks scrub for the last	time.
	Target Value:	The value on current procedure		
	Vendor Instruction:	Procedure End Date and Time (7005) and Procedure Start Date and Time (7000) must not over	ap on multiple procedur	es
		Procedure End Date and Time (7005) must be Greater than Procedure Start Date and Time (700	00)	
		Procedure End Date and Time (7005) must be Less than or Equal to Discharge Date and Time (	10101)	
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):		
	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		



Section: Procedure Information	Parent: Root
Element: 7115	
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
Element: 15433	Fellow Last Name
Coding Instruction:	Indicate the last 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: 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. 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
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 speciality can be found here: ACGME - Accreditation Data System (ADS): https://apps.acgme.org/ads/Public/Reports/Report/1.
Element: 7130	Sedation
Coding Instruction:	Indicate the type of sedation used for the intervention.
Target Value:	The value on current procedure
Supporting Definition:	Sedation
	<ol> <li>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.</li> </ol>
	2. 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.
	3. 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.



### Section: Procedure Information

### Parent: Root

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

**Source:** Committee on Quality Management and Departmental Administration. "Statement on Continuum of Depth of Sedation: Definition of General Anesthesia and Levels of Sedation/Analgesia." Last Amended: October 23, 2019 (original approval: October 13, 1999). American Society of Anesthesiologists. "Position on Monitored Anesthesia Care." Last amended on October 17, 2018.

https://www.asahq.org/standards-and-practice-parameters/statement-on-continuum-of-depth-of-sedation-definition-of-general-anesthesia-and-levels-of-sedation-analgesia

#### Sedation Method - 1.3.6.1.4.1.19376.1.4.1.6.5.199

Selection	Definition	Source	Code	Code System
Minimal Sedation/Anxiolysis			427255001	SNOMED CT
Moderate Sedation/Analgesia			314271007	SNOMED CT
Deep Sedation/Analgesia			426155000	SNOMED CT
General Anesthesia			420653000	SNOMED CT

Element: 7175

Transseptal Catheterization

Coding Instruction: Indicate if the procedure was performed with a single or a double transseptal catheterization.

Target Value: The value on current procedure

#### Transseptal Catheterization - 1.3.6.1.4.1.19376.1.4.1.6.5.196

Selection	Definition	Source	Code	Code System
Single			50607009	SNOMED CT
Double	Double may include either a sing wiring of the transseptal cathete	le-puncture and double rization technique or a	1305003	SNOMED CT
	second transseptal puncture fo	catheter access.		

Element: 15726

Intracardiac Echocardiography

Coding Instruction: Indicate if imaging was performed via intracardiac echo (ICE).

Target Value: The value on current procedure

### Intracardiac Echocardiography Types - 1.3.6.1.4.1.19376.1.4.1.6.5.951

Selection	Definition	Source	Code	Code System
No			100013073	ACC NCDR
Yes - 2D			112000003651	ACC NCDR
Yes - 3D			448761005	SNOMED CT
Yes - 4D			112000003652	ACC NCDR

Element: 15714

Pulmonary Vein Isolation

Coding Instruction: Indicate if a pulmonary vein isolation was performed during this procedure. This includes ablation of the carina/carina line(s).

Target Value: The value on current procedure

### Element: 15722 Pulmonary Vein Isolation Energy Source

Coding Instruction: Indicate the energy source used during the pulmonary vein isolation.

Target Value: The value on current procedure

### Ablation Energy Source - 1.3.6.1.4.1.19376.1.4.1.6.5.947

Selection	Definition	Source	Code	Code System
Cryoenergy	Cryoablation, or freezing technology, involves a coolant being released into the catheter's balloon to freeze and ablate the tissue.		112000003639	ACC NCDR
Ethanol	Ethanol infusion used during catheter ablation		112000003640	ACC NCDR
Laser	The laser balloon catheter comprises an inflatable balloon mounted on a catheter shaft, an endoscope lumen, and an optical fiber that can deliver laser energy		112000003641	ACC NCDR
Pulsed Field Ablation	Pulsed field ablation uses electrical pulses to cause nonthermal irreversible electroporation and induce cardiac cell death.		112000003642	ACC NCDR
Radiofrequency	Radiofrequency uses heat energy generated by radiofrequency waves to create lesions or scars on the heart tissue, disrupting abnormal electrical signals.		112000003643	ACC NCDR
Other	Any energy used during the procedure that is not liste	d	11200003644	ACC NCDR



Section: Adjunctive Ablation Lesio	ns Parent: Procedure Information		
Element: 7165	Adjunctive Ablation Lesions		
Coding Instruction:	Indicate whether additional lesions were created during the current ablation procedure, regardless of the arrythmia being treated with the additional lesions.		
	Intent: This element is intended to identify what additional targeted areas are ablated beyond the primary pulmonary vein isolation (PVI). Creating additional lesions are intended to enhance the success of the procedure by addressing other potential sources of arrythmia. Additional lesions may also be associated with longer procedure time and more opportunity for complications to occur.		
Target Value:	The value on current procedure		
Supporting Definition:	Adjunctive Ablation Lesions		
	Additional locations treated with ablation to increase the efficacy or safety of the primary procedure.		

Source: NCDR



### Section: Ablation Location

Parent: Adjunctive Ablation Lesions

Element: 15725

Adjunctive Ablation Location

Coding Instruction: Indicate the location targeted for ablation during this procedure.

Note(s):

If the patient has multiple locations select all location targeted for ablation.

Target Value: The value on current procedure

### Adjunctive Ablation Lesion Location - 1.3.6.1.4.1.19376.1.4.1.6.5.201

Selection	Definition	Source	Code	Code System
SVC isolation			48345005	SNOMED CT
Coronary sinus isolation			90219004	SNOMED CT
Cavotricuspid isthmus (CTI)			100000981	ACC NCDR
Ligament/vein of marshall			5208200	SNOMED CT
LA roof line			11200003647	ACC NCDR
Left auricular appendage			11200002380	ACC NCDR
LA floor line			11200003648	ACC NCDR
Mitral isthmus line			112000003650	ACC NCDR
Posterior wall isolation			11200003649	ACC NCDR
Other			100001063	ACC NCDR

Element: 15708

Adjuctive Ablation Lesion Occurrence

Coding Instruction: Indicate if additional lesions were created at the specified location during the ablation procedure.

Target Value: The value on current procedure

### Element: 15709

### Adjunctive Ablation Lesion Energy Source

Coding Instruction: Indicate the energy source used to create the lesion.

### Target Value: The value on current procedure

#### Ablation Energy Source - 1.3.6.1.4.1.19376.1.4.1.6.5.947

Selection	Definition	Source Code	Code System
Cryoenergy	Cryoablation, or freezing technology, involves a coolant being released into the catheter's balloon to freeze and ablate the tissue.	11200003639	ACC NCDR
Ethanol	Ethanol infusion used during catheter ablation	112000003640	ACC NCDR
Laser	The laser balloon catheter comprises an inflatable balloon mounted on a catheter shaft, an endoscope lumen, and an optical fiber that can deliver laser energ	11200003641 y	ACC NCDR
Pulsed Field Ablation	Pulsed field ablation uses electrical pulses to cause nonthermal irreversible electroporation and induce cardiac cell death.	11200003642	ACC NCDR
Radiofrequency	Radiofrequency uses heat energy generated by radiofrequency waves to create lesions or scars on the heart tissue, disrupting abnormal electrical signals	11200003643	ACC NCDR
Other	Any energy used during the procedure that is not liste	d 11200003644	ACC NCDR



## Section: Additional Ablations Attempted Parent: Procedure Information Element: 15710 Additional Ablation

Coding Instruction: Indicate if additional ablations, other than PVI (pulmonary vein isolation), were performed or attempted during the procedure.

Intent: This element, and the child fields, are meant to capture a comprehensive view of the ablation strategies, approaches, techniques utilized during atrial fibrillation (AF) ablation procedures. While pulmonary vein isolation is the primary and most common approach to AF ablation, additional ablation techniques may be employed depending on the patient's specific condition and the complexity of the AF. Understanding whether additional ablations were performed helps to document procedural variability, assess outcomes, and potentially guide future treatment protocols.

Target Value: The value on current procedure



### Section: Ablation Approach

Element: 15711

Parent: Additional Ablations Attempted

Coding Instruction: Indicate the technique, strategy or approach used to perform the additional ablation.

Target Value: The value on current procedure

Additional Ablation Approach

### Additional Ablation Approach - 1.3.6.1.4.1.19376.1.4.1.6.5.953

Selection	Definition	Source	Code	Code System
Complex fractionated			10000910	ACC NCDR
electrogram				
Focal/trigger ablation			100000913	ACC NCDR
Ganglion plexus ablation			100000914	ACC NCDR
Rotor-based mapping			100000917	ACC NCDR
Temporo-spatial dispersion mapping/ablation			112000003656	ACC NCDR
Other			100000351	ACC NCDR

Element: 15712

Additional Ablation Occurrence

Coding Instruction: Indicate the occurrence of each additional ablation technique.

Target Value: The value on current procedure

Element: 15713 Additional Ablation Energy Source

Coding Instruction: Indicate the energy source used during the additional ablation.

Target Value: The value on current procedure

Ablation Energy Source - 1.3.6.1.4.1.19376.1.4.1.6.5.947				
Selection	Definition	Source	Code	Code System
Cryoenergy	Cryoablation, or freezing technology, involves a coolant being released into the catheter's balloon to freeze and ablate the tissue.		112000003639	ACC NCDR
Ethanol	Ethanol infusion used during catheter ablation		112000003640	ACC NCDR
Laser	The laser balloon catheter comprises an inflatable balloon mounted on a catheter shaft, an endoscope lumen, and an optical fiber that can deliver laser energe	JY	11200003641	ACC NCDR
Pulsed Field Ablation	Pulsed field ablation uses electrical pulses to cause nonthermal irreversible electroporation and induce cardiac cell death.		11200003642	ACC NCDR
Radiofrequency	Radiofrequency uses heat energy generated by radiofrequency waves to create lesions or scars on the heart tissue, disrupting abnormal electrical signals		11200003643	ACC NCDR
Other	Any energy used during the procedure that is not liste	d	11200003644	ACC NCDR



AMERICAN COLLEGE of CARDIOLOGY*	,		
Section: Procedure Information	Parent: Procedure Informatio	n	
Element: 7120	Phrenic Nerve Evaluation		
Coding Instruction:	Indicate if the phrenic nerve was evaluated.		
Target Value:	The value on current procedure		
Element: 15724	Cardioversion Performed During Procedure and Type		
Coding Instruction:	Indicate if cardioversion was performed during this procedure.		
Target Value:	The value on current procedure		
Cardioversion Performed During Procedu	re and Type - 1.3.6.1.4.1.19376.1.4.1.6.5.950		
Selection Definition	Source	Code	Code System
No		100013073	ACC NCDR
Yes - Pharmacologic		440142000	SNOMED CT
Yes - DC		180325003	SNOMED CT
Both		112000003646	ACC NCDR
Element: 15717	Atrial Flutter Observed During Procedure		
Coding Instruction:	Indicate if atrial flutter was observed during the procedure.		
	Note(s): Code 'Yes' if atrial flutter was induced during the procedure.		
Target Value:	The value on current procedure		
Supporting Definition:	Atrial Flutter		
	Atrial flutter is defined as a cardiac arrhythmia arising in the atrium which has a regulength 240-170 ms) in the absence of antiarrhythmic drugs.	llar rate typically between 250 a	nd 350 bpm (cycle
	<b>Source:</b> January CT, Wann LS, Alpert JS, Calkins H, Cleveland Jr JC, Cigarroa JE, KT, Sacco RL, Stevenson WG, Tchou PJ, Tracy CM, Yancy CW, 2014 AHA/ACC/HRS Atrial Fibrillation, Journal of the American College of Cardiology (2014), doi: 10.1016/	Conti JB, Ellinor PT, Ezekowitz MI S Guideline for the Management j.jacc.2014.03.022.	D, Field ME, Murray of Patients With
Ablation Performed After Observations - 1	.3.6.1.4.1.19376.1.4.1.6.5.952		
Selection Definition	Source	Code	Code System
No		100013073	ACC NCDR
Yes - Ablated		112000003653	ACC NCDR
Yes - Not Ablated		112000003654	ACC NCDR
Element: 15718	Atrial Tachycardia Observed During Procedure		
Coding Instruction:	Indicate if atrial tachycardia was observed during the procedure.		
	Note(s): Code 'Yes' if atrial tachycardia was induced during the procedure.		
Target Value:	The value on current procedure		
Ablation Performed After Observations - 1	.3.6.1.4.1.19376.1.4.1.6.5.952		
Selection Definition	Source	Code	Code System
No		100013073	ACC NCDR
Yes - Ablated		112000003653	ACC NCDR
Yes - Not Ablated		11200003654	ACC NCDR



### Section: Device

Element: 7205

. . . . . .

Parent: Procedure Information

Coding Instruction: Indicate the method used for catheter manipulation during the procedure.

**Catheter Manipulation** 

Target Value: The value on current procedure

### Catheter Manipulation Method - 1.3.6.1.4.1.19376.1.4.1.6.5.200

Selection	Definition	Source	Code	Code System
Manual			100000958	ACC NCDR
Magnetic/Robotic			112000003635	ACC NCDR
Other			112000003636	ACC NCDR



Section: Catheter Ablation Device	s Parent: Device
Element: 7255	Catheter Ablation Device
Coding Instruction:	Indicate the assigned identification number associated with the catheter ablation device.
	Note(s): The devices that should be collected in your application are controlled by a Catheter Ablation Device 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:	Any occurrence on current procedure
Vendor Instruction:	When Catheter Ablation Unique Device Identifier (7260) is answered, Catheter Ablation Device (7255) cannot be Null.
Element: 7260	Catheter Ablation Unique Device Identifier
Coding Instruction:	Indicate the direct identifier portion of the Unique Device Identifier (UDI) associated with the device. This ID is provided by the device manufacturer, and is either a GTIN or HIBC number.
Target Value:	Any occurrence on current procedure
Supporting Definition:	Unique Device Identifier (UDI)
	An identifier that is the main (primary) lookup for a medical device product and meets the requirements to uniquely identify a device through its distribution and use. This value is supplied to the FDA by the manufacturer.

Source: US FDA



Section: Electroanatomical Mappi	ng System	Parent: Device
Element: 15715	Electroanatomic Mapping System	

Coding Instruction: Indicate the electroanatomic mapping system used. If no mapping system was used, leave this field blank.

Note(s):

Electroanatomic mapping systems combine information of the anatomy and electrical properties of the cardiac structures under evaluation. These systems create a three-dimensional anatomical map used to help localize critical sites for ablation. To request a mapping system be added to this list please contact NCDR.

Target Value: Any occurrence on current procedure



Section: Radiation Exposure	Parent: Procedure Information
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
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: 15719	No Radiation Kerma Documented
Coding Instruction:	Indicate if a cumulative air kerma value is not available.
Target Value:	The value on current procedure
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: 15720	No Fluoro Used
Coding Instruction:	Indicate if fluoroscopy (i.e., radiation) was not used at all during the procedure.
Target Value:	The value on current procedure
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



Section: Intraprocedure Anticoagulation Strategy		lation Strategy Parent: Procedure Information
Element: 7225		Intraprocedure Anticoagulation
	Coding Instruction:	Indicate if intraprocedure anticoagulation therapy was provided.
	Target Value:	The value on current procedure
Element: 15775		Uninterrupted Anticoagulation Therapy
	Coding Instruction:	Indicate if the patient continued on warfarin, heparin, bivalirudin therapy or another anticoagulation therapy and it was not held for the procedure.
	Target Value:	The value on current procedure



Parent: Intra or Post-Procedure Events

### Section: Intra or Post-Procedure Events

Element: 9001

Intra/Post-Procedure Events

Coding Instruction: Indicate the event that occurred between the start of the procedure and the next procedure or discharge.

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

Vendor Instruction: Intra/Post-Procedure Events (9001) should not be duplicated in a lab visit

### Post-Procedure Events - 2.16.840.1.113883.3.3478.6.3.10

Selection	Definition	Source	Code	Code System
Cardiac tamponade			35304003	SNOMED CT
Pericardiocentesis			309849004	SNOMED CT
Acute kidney injury	Indicate if the patient had acute kidney injury, an abrupt decline in GFR defined as: 1. A new requirement for dialysis, OR 2. An increase from pre-procedure creatinine to post-procedure creatinine of 0.3mg/dL, OR 3. An increase of serum creatinine of >=50% of baseline.		14669001	SNOMED CT
A-V fistula requiring intervention	Indicate if the patient developed a new arteriovenous (AV) fistula, an abnormal connection between the arterial and venous systems, that required an intervention for repair.		439470001	SNOMED CT
Bleeding - access site (transfusion)	Indicate if there was bleeding at the percutaneous access site that required a transfusion.		100001237	ACC NCDR
Bradycardia adverse events	Indicate if the patient experienced symptomatic bradycardia (can include periods of reduced, unstable, or abnormal blood pressure with near syncope, or episodes of syncope), or bradycardia requiring pacing, or bradycardia requiring medical therapy.	i	48867003	SNOMED CT
Cardiac arrest	Indicate if the patient experienced cardiac arrest. Cardiac arrest is the cessation of cardiac activity. The patient becomes unresponsive with no norma breathing and no signs of circulation. If corrective measures are not taken rapidly, this condition progresses to sudden death. Cardiac arrest should be used to signify an event as described above that is reversed, usually by CPR and/or defibrillation or cardioversion or cardiac pacing.	I	410429000	SNOMED CT
Cardiac surgery (unplanned emergent)	Indicate if there is documentation that the patient required an unplanned or emergent cardiac surgery.		64915003	SNOMED CT
Deep vein thrombosis	Indicate if the patient was diagnosed with a deep vein thrombosis (DVT), a manifestation of venous thromboembolism (VTE) in which thrombi remain lodged in the deep veins.		128053003	SNOMED CT
GU Bleeding	Indicate if the patient experienced genital or urinary bleeding. To qualify, it must be associated with any of the following documented in the medical record: 1. Hemoglobin drop of >=3 g/dL; 2. Transfusion of whole blood or packed red blood cells; 3. Procedural intervention/surgery at the bleeding site to reverse/stop or correct the bleeding.	1	417941003	SNOMED CT
Heart failure	Indicate if the patient was newly diagnosed with heart failure or an acute decompensation of previously diagnosed HF.		84114007	SNOMED CT
Hematoma at access site	Indicate if the patient experienced a hematoma at the access or percutaneous entry site. To qualify, the bleeding should be associated with any of the following documented in the medical record: 1. Hemoglobin drop of >=3 g/dL; 2. Transfusion of whole blood or packed red blood cells; 3. Procedural intervention/surgery at the site to correct the hematoma.	1	385494008	SNOMED CT
Hemolysis	Hemolysis, the destruction of red blood cells, is a possible side effect of pulsed field ablation. At high levels, hemolysis can negatively impact renal function or cause anemia or jaundice. Clinically significant hemolysis may be indicated by		73320003	SNOMED CT



Section: Intra or Pe	ost-Procedure Events	Parent: Intra or Post-Procedure Events	
	laboratory findings such as increased lactate dehydrogenase (LDH) and elevated bilirubin levels, or by symptoms such as dark urine, fatigue, or jaundice. Indicate if there is provider documentation/diagnosis of hemolysis, in conjunction with any of the following: 1. Additional therapy required (such as IV fluids, dialysis, or transfusion); 2. Significant change in renal function; 3. Change in the planned length of stay; or 4. Clinician documentation of significant hemolysis.		
Hemorrhage (non access site)	Indicate if the patient was diagnosed with a hemorrhage at a site other than the access site used for the intervention. To qualify, it must be associated with any of the following: 1. Hemoglobin drop of >=3 g/dL; 2. Transfusion of whole blood or packed red blood cells; 3. Procedural intervention/surgery at the bleeding site to reverse/stop or correct the bleeding (such as surgical closures/exploration of the arteriotomy site, balloon angioplasty to seal an arterial tear, endoscopy with cautery of a GI bleed).	50960005	SNOMED CT
Hemothorax	Indicate if there is documentation that the patient experienced hemothorax, any accumulation of blood in the thorax/pleural space.	31892009	SNOMED CT
Myocardial infarction	Indicate if the patient was diagnosed with a myocardial infarction.	22298006	SNOMED CT
Pericardial effusion requiring intervention	Indicate if the documented pericardial effusion required intervention, such as pericardiocentesis.	100001073	ACC NCDR
Pericardial effusion resulting in cardiac tamponade	Indicate if there is documentation that the patient experienced pericardial effusion (the presence of pericardial fluid in the pericardial space) leading to cardiac tamponade (hemodynamic instability that requires unplanned or emergent intervention).	100001074	ACC NCDR
Phrenic nerve damage	Indicate if there is a discharge diagnosis of phrenic nerve damage, new sensory or motor loss as a result of damage or inappropriate contact with the phrenic nerve during the procedure.	100001076	ACC NCDR
Pleural effusion	Indicate if there is documentation that the patient experienced pleural effusion, the abnormal buildup of fluid between the layers of tissue that line the lungs and chest cavity.	60046008	SNOMED CT
Pneumonia	Indicate if there is documentation that the patient experienced pneumonia.	233604007	SNOMED CT
Pneumothorax	Indicate if there is documentation that the patient experienced pneumothorax, air in the pleural space.	36118008	SNOMED CT
Pseudoaneurysm requiring intervention	Indicate if there is documentation that the patient experienced a pseudoaneurysm (PSA) that required treatment (e.g. thrombin injection, percutaneous or surgical therapeutic intervention).	443089001	SNOMED CT
Pulmonary embolism	Indicate if there is documentation that the patient experienced a pulmonary embolism, thrombosis involving the pulmonary tree or branches.	59282003	SNOMED CT
Pulmonary vein damage/dissection	Indicate if there is documentation that the patient experienced a disruption or tear within the venous intima of the pulmonary vein.	60366008	SNOMED CT
Respiratory failure	Indicate if there is documentation that the patient developed respiratory failure. Respiratory failure implies the requirement for mechanical ventilatory support.	409622000	SNOMED CT
Sepsis	Indicate if the patient was diagnosed with sepsis.	91302008	SNOMED CT
Stroke	Indicate if the patient was diagnosed with a stroke (ischemic, hemorrhagic, or undetermined).	230690007	SNOMED CT
Transient ischemic attack (TIA)	Indicate if the patient was diagnosed with a transient ischemic attack (TIA), a temporary episode of neurological dysfunction.	266257000	SNOMED CT
Vascular injury requiring surgical intervention	Indicate if there is documentation that the patient experienced a vascular complication attributable to the current procedure that required a surgical intervention. Vascular complications can include, but are not limited to: access site occlusions, dissections, pseudoaneurysms, and/or AV	30904006:363702006=57662003	SNOMED CT



### Section: Intra or Post-Procedure Events

fistulas. Any noted vascular complication must have had a surgical repair to qualify.

**Element: 9002** 

### Intra/Post-Procedure Events Occurred

Coding Instruction: Indicate the event that occurred between the procedure and the next procedure or discharge.

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

Vendor Instruction: When Intra/Post-Procedure Events (9001) are provided then Intra/Post-Procedure Events Occurred (9002) cannot be Null

Parent: Intra or Post-Procedure Events



Section: Intra or Post-Procedure E	vent Details Parent: Intra or Post-Procedure Events		
Element: 9030	Bradycardia Requiring Permanent Pacemaker		
Coding Instruction:	Indicate if the patient required a permanent pacemaker.		
Target Value: Any occurrence between start of procedure and until next procedure or discharge			
Element: 9210	Hemothorax Requiring Drainage		
Coding Instruction:	Indicate if the documented hemothorax required drainage.		
Target Value:	Any occurrence between start of procedure and until next procedure or discharge		
Element: 9220	Pneumothorax Requiring Drainage		
Coding Instruction:	Indicate if there is documentation that the patient experienced pneumothorax requiring any form of intervention or drainage, such as a chest tube.		
Target Value:	Any occurrence between start of procedure and until next procedure or discharge		



Section: Disch	arge	Parent: Root		
Element: 10025		Discharge Atrial Rhythm		
	Coding Instruction:	Indicate the patient's atrial rhythm at the time of discharge.		
	<b>.</b>	Note(a):		
		If the patient has multiple atrial rhythms, select all that apply.		
		In the event that a patient is ventricular paced, indicate the underlying atrial rhythm.		
	Target Value:	Any occurrence between start of procedure and until next procedure or discharge		
		-		
Atrial Rhythm - 1.3. Selection	.6.1.4.1.19376.1.4.1.6.5.18 Definition	Source	Code	Code Syster
Atrial fibrillation			49436004	SNOMED C
Atrial flutter			5370000	SNOMED C
Atrial paced			251268003	SNOMED C
Atrial tachycardia			276796006	SNOMED C
Sinus Sinus arrest			5609005	SNOMED C
Element: 14871		Post Procedure Hemoglobin		
	Coding Instruction:	Indicate the lowest hemoglobin (Hgb) value (g/dL), obtained via lab assay or point of care the time of discharge.	assay, between the end of	the procedure and
	Target Value:	The lowest value between end of current procedure and discharge		
	Supporting Definition:	Hemoglobin		
		Hemoglobin (Hb or Hgb) is the iron-containing oxygen-transport metalloprotein in the red b the rest of the body (i.e. the tissues) where it releases the oxygen to burn nutrients and pr measurement is among the most commonly performed blood tests, usually as part of a cor below normal, this is called anemia. Anemias are classified by the size of red blood cells: if they are large, and "normocytic" if otherwise. Dehydration or hyperhydration can greatly <b>Source:</b> http://s.details.loinc.org/LOINC/718-7.html?sections=Simple	lood cells. It carries oxygen rovide energy. Hemoglobin mplete blood count. If the co "microcytic" if red cells are s influence measured hemog	from the lungs to concentration ncentration is small, "macrocytic" lobin levels.
Element: 14872		Post Procedure Hemoglobin Not Drawn		
	Coding Instruction:	Indicate if the post-procedure hemoglobin was not drawn.		
	Target Value:	N/A		
Element: 10101		Discharge Date and Time		
	Coding Instruction:	Indicate the date and time the patient was discharged from your facility as identified in the	medical record.	
		Note(s):	).00 bours)	
		0000 - 0559 (midnight to before 6AM) code 0300 0600 - 1159 (6AM - before noon) code 0900 1200 - 1759 (noon before 6PM) code 1500 1800 - 2359 (6PM to before midnight) code 2100	e time as delow.	
	Target Value:	The value on discharge		
	Vendor Instruction:	Discharge Date and Time (10101) must be Greater than or Equal to 10/01/2024		
		Discharge Date and Time (10101) and Arrival Date and Time (3001) must not overlap on m	ultiple episodes	
		Discharge Date and Time (10101) must be Greater than or Equal to Arrival Date and Time (	(3001)	
		Discharge Date and Time (10101) must be Greater than or Equal to Procedure Start Date a	nd Time (7000)	
Element: 10105		Discharge Status		
	Coding Instruction:	Indicate whether the patient was alive or deceased at discharge.		
	Target Value:	The value on discharge		
Discharge Life Stat	tus - 1.3.6.1.4.1.19376.1.4	.1.6.5.42		
Selection	Definition	Source	Code	Code System
Alive			438949009	SNOMED C

Deceased

20 HL7 Discharge disposition



Section: Discharge	Parent: Root
Element: 10120	Death During the Procedure
Coding Instruction:	Indicate if the patient expired during the procedure.
Target Value:	Any occurrence on discharge
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
Supporting Definition:	Cause of Death
	Death is classified into 1 of 3 categories: 1) cardiovascular death; 2) non - cardiovascular death; and 3) undetermined cause of death.
	The intent of the classification schema is to identify one, and only one, of the categories as the underlying cause of death. The key priority is differentiating between cardiovascular and non-cardiovascular causes of death.
	<b>Source:</b> Hicks KA, Tcheng JE, Bozkurt B, et al. 2014 ACC/AHA Key Data Elements and Definitions for Cardiovascular Endpoint Events in Clinical Trials: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Data Standards (Writing Committee to Develop Cardiovascular Endpoints Data Standards). J Am Coll Cardiol. 2015;():. Doi:10.1016/j.jacc.2014.12.018.
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 pulmonary embolism or peripheral arterial disease. In addition, "death due to cardiovascular hemorrhage" refers to a death related to hemorrhage such as a nor 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 o a contusion from a motor vehicle accident, the cause	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 a 2015;66:403-69 a	100014107	ACC NCDR
	of death would be non-cardiovascular (death due to			
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	11200000343	ACC NCDR
Undetermined	Attribution of causality may be limited or impossible if information available at the time of death is minimal or nonexistent. In such cases, the date of death may be the only data element captured and 'undetermined' should be selected for cause of death.	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	11200000342	ACC NCDR



Section: Discharge Medications		Parent: Discharge
Element: 10200		Discharge Medication Code
	Coding Instruction:	Indicate the assigned identification number associated with the medications the patient was prescribed upon discharge.

Note(s): Discharge medications not required for patients who expired, discharged to "Other acute care hospital", "Left against medical advice (AMA)" or are receiving Hospice Care.

The medication(s) collected in this field are controlled by the Medication Master file. This file is maintained by the NCDR and will be made available on the internet for downloading and importing/updating into your application. Each medication in the Medication Master file is assigned to a value set. The value set is used to separate procedural medications from medications prescribed at discharge. The separation of these medications is depicted on the data collection form.

Target Value: N/A

Vendor Instruction: Discharge Medication Code (10200) should not be duplicated in an episode

### Discharge Medication - 1.3.6.1.4.1.19376.1.4.1.6.5.165

Selection	Definition	Source	Code	Code System
Amiodarone			703	RxNorm
Angiotensin converting enzyme inhibitor (ACE-I) (An	у)		41549009	SNOMED CT
Angiotensin receptor blocker (ARB) (Any)			372913009	SNOMED CT
Angiotensin II receptor block neprilysin inhibitor (ARNI)	er		1656341	RxNorm
Apixaban			1364430	RxNorm
Aspirin			1191	RxNorm
Aspirin, Extended-Release Dipyridamole			226718	RxNorm
Beta blocker (Any)			33252009	SNOMED CT
Betrixaban			1927851	RxNorm
Cangrelor			1656052	RxNorm
Clopidogrel			32968	RxNorm
Dabigatran			1546356	RxNorm
Digoxin			3407	RxNorm
Diltiazem			3443	RxNorm
Disopyramide			3541	RxNorm
Dofetilide			49247	RxNorm
Dronedarone			233698	RxNorm
Edoxaban			1599538	RxNorm
Flecainide			4441	RxNorm
GLP-1 agonist			772985004	SNOMED CT
Heparin Derivative			100000921	ACC NCDR
Low Molecular Weight Hepar	in		373294004	SNOMED CT
Prasugrel			613391	RxNorm
Procainamide			8700	RxNorm
Propafenone			8754	RxNorm
Quinidine			9068	RxNorm
Rivaroxaban			1114195	RxNorm
SGLT inhibitor			112000003634	ACC NCDR
Sotalol			9947	RxNorm
Ticagrelor			1116632	RxNorm
Ticlopidine			10594	RxNorm
Unfractionated Heparin			96382006	SNOMED CT
Verapamil			11170	RxNorm
Vorapaxar			1537034	RxNorm
Warfarin			11289	RxNorm

### Element: 10205

Discharge Medication Prescribed

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

Target Value: The value on discharge

Vendor Instruction: When Discharge Medication Code (10200) is answered, Discharge Medication Prescribed (10205) cannot be Null

### Discharge Medication Administration - 1.3.6.1.4.1.19376.1.4.1.6.5.86

Selection	Definition	Source	Code	Code System
Yes - Prescribed	Code 'Yes' if this medication was initiated (or		100001247	ACC NCDR
	prescribed) post procedure and for discharge.			



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Section: Discharge N	edications	Parent: Discharge		
Not Prescribed - No Reason	Code 'No' if this medication was not prescribed post procedure or for discharge and there was no mention of a reason why it was not ordered within the medical documentation.		100001048	ACC NCDR
Not Prescribed - Medical Reason	Code 'No Medical Reason' if this medication was not prescribed post procedure or for discharge and there was a reason documented related to a medical issue or medical concern for not prescribing the medicine.		100001034	ACC NCDR
Not Prescribed - Patient Reason	Code 'No, Patient Reason' if this medication was not prescribed post procedure or for discharge and there was a reason documented related to the patient's preference.		100001071	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 Greater than or Equal to 10/01/2024
	Follow-Up Assessment Date (11000) must be Greater than Follow-Up Reference Episode Discharge Date and Time (11015)
	Follow-Up Assessment Date (11000) must be Less than that of a previously submitted follow-up assessment with Follow-Up Status (11004) of Deceased
Element: 11002	Follow-Up Reference Episode Arrival Date and Time
Coding Instruction:	Indicate the date and time 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 reference procedure start date and time on the follow-up assessment date.
Target Value:	The value on Follow-up
Element: 11015	Follow-Up Reference Episode Discharge Date and Time
Coding Instruction:	Indicate the date and time of discharge for the relevant episode of care.
Target Value:	The value on Follow-up
Element: 11003	Method to Determine Follow-Up Status
Coding Instruction:	Indicate the method(s) used to determine the patient's vital status for follow up.
Target Value:	The value on Follow-up

### Method to Determine Follow-up status - 1.3.6.1.4.1.19376.1.4.1.6.5.370

Selection	Definition	Source	Code	Code System
Office visit			183654001	SNOMED CT
Medical records			100014060	ACC NCDR
Letter from medical pro	vider		100014061	ACC NCDR
Video call			448337001	SNOMED CT
Remote Monitoring Tool			88140007	SNOMED CT
Phone call			100014062	ACC NCDR
State Registry / Social death master file	Security		419099009	SNOMED CT
Hospitalization			1000142363	ACC NCDR
CMS Linked Data			112000001407	ACC NCDR
Other			100000351	ACC NCDR

```
Element: 11004
```

Follow-Up Status

**Coding Instruction:** Indicate the patient status as of the date on which the follow-up assessment was performed.

Target Value: The value on Follow-up

Vendor Instruction: Follow-Up Status (11004) = Deceased may only be submitted once across the Follow-up Assessment Dates (11000) for the Follow-Up Reference Procedure Start Date and Time (11001)

### 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: 11007



### Section: Follow-Up

### Parent: Root

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 de acute myocardi heart failure, st cardiovascular causes.	eath to a cardiovascular etiology are ial infarction, sudden cardiac death, roke, cardiovascular procedure, hemorrhage, and other cardiovascular	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	100014107	ACC NCDR
	cardiovascular	death not included in the above	a 2015;00:403-09 a		
	pulmonary emb	olism or peripheral arterial disease.	u		
	In addition, "dea refers to a deat stroke intracran traumatic vascu pulmonary hem	ath due to cardiovascular hemorrhage" h related to hemorrhage such as a non hial hemorrhage, non-procedural or non- ular rupture (e.g., aortic aneurysm), or orrhage from a pulmonary embolism.	-		
	In contrast, if a a contusion fror of death would trauma).	pulmonary hemorrhage were a result or m a motor vehicle accident, the cause be non-cardiovascular (death due to	of		
Non-Cardiac	Mortality attribu system, infectio reaction/overdo	ited to any non-cardiovascular organ, on, malignancy, trauma or drug ose.	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	11200000343	ACC NCDR
Undetermined	Attribution of causality may be limited or impossible if information available at the time of death is minimal or nonexistent. In such cases, the date of death may be the only data element captured and 'undetermined' should be selected for cause of death.		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	11200000342	ACC NCDR
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	t be Greater than or Equal to Follow-Up Reference Disch	arge Date and Time (110	)15)
		Follow-Up Date of Death (11006) mus	t be Less than or Equal to Follow-Up Assessment Date	(11000)	
		Follow-Up Date of Death (11006) mus with Follow-Up Status (11004) of Alive	t be Greater than or Equal to the Follow-Up Assessmen e	t Date (11000) of a follow	v-up assessment
Element: 15749		Follow-up Atrial Rhythm			
	Coding Instruction:	Indicate the patient's atrial rhythm deter	ermined during this follow-up assessment.		
		Note(s): If the patient has multiple atrial rhythms, select all that apply. In the event that a patient is ventricular underlying atrial rhythm.			idicate the
	Target Value:	Any occurrence between discharge (	or previous follow-up) and current follow-up assessme	nt	
Atrial Rhythm - 1.3.6	.1.4.1.19376.1.4.1.6.5.18	37			
Selection	Definition		Source	Code	Code System
				+3+30004	SNOWED CT

Atrial fibrillation	49436004 5370000	SNOMED CT
Atrial fluttor	5370000	SNOMED CT
Atha huter		CITCHIED OF
Atrial paced	251268003	SNOMED CT
Atrial tachycardia	276796006	SNOMED CT
Sinus	106067008	SNOMED CT
Sinus arrest	5609005	SNOMED CT

Element: 15750

Documented Atrial Arrhythmia Recurrence

Coding Instruction: Indicate if the patient had a documented recurrence of any atrial arrhythmia between discharge (or previous follow-up) and current follow-up assessment.



### Section: Follow-Up Parent: Root Acceptable documentation includes provider notes indicating atrial arrhythmia or catheter ablation failure, or provider confirmation of atrial arrhythmia on any of the following: 12-lead ECG (EKG) or rhythm strip, Holter monitor report, smart watch alert, implantable device. Note(s): Code 'Yes' to any documentation of recurrence of atrial arrhythmia, unless it is documented to last less than 30 seconds. If there is documentation that the atrial arrythmia lasted less than 30 seconds, then code 'No.'

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

### Supporting Definition: Documented Atrial Arrhythmia Recurrence

An AF/flutter/tachycardia episode is present if it is documented by ECG and lasts at least 30 seconds. An episode of

AF/flutter/tachycardia detected by monitoring should be considered a recurrence if it has a duration of 30 seconds or more. Source: Calkins H, Brugada J, Packer DL, Cappato R, Chen S-A, Crijns HJG, Damiano R, Davies WD, Haines DE, Haissaguerre M, lesaka Y, Jackman WJ, Jais P, Kottkamp H, Kuck KH, Lindsay BD, Marchlinski FE, McCarthy PM, Mont L, Morady F, Nademanee K, Natale A, Pappone C, Prystowsky E, Raviele A, Ruskin JN, Shemin RJ. HRS/EHRA/ECAS expert consensus statement on catheter and surgical ablation of atrial fibrillation: recommendations for personnel, policy, procedures and follow-up. Heart Rhythm. 2007; 4:1-46.

### Atrial Arrhythmia - 1.3.6.1.4.1.19376.1.4.1.6.5.954

Selection	Definition	Source	Code	Code System
No			100013073	ACC NCDR
Yes - Asymptomatic			84387000	SNOMED CT
Yes - Symptomatic			264931009	SNOMED CT



### Section: Follow-Up Symptoms

Parent: Follow-Up

### Element: 15751 Follow-up Symptoms Experienced

Coding Instruction: Indicate which symptom(s), if any, the patient experienced between discharge (or previous follow-up) and current follow-up assessment. If the patient had both symptomatic and asymptomatic episodes, code "yes."

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

### Symptoms Prior to Ablation - 1.3.6.1.4.1.19376.1.4.1.6.5.948

Selection	Definition	Source	Code	Code System
Anxiety			48694002	SNOMED CT
Chest pain			29857009	SNOMED CT
Dyspnea at rest			161941007	SNOMED CT
Dyspnea on exertion			60845006	SNOMED CT
Fatigue			84229001	SNOMED CT
Irregular heartbeat			361137007	SNOMED CT
Light-headedness			386705008	SNOMED CT
Palpitations			80313002	SNOMED CT
Other			112000003645	ACC NCDR

### Element: 15752 Follow-up Symptom Status

Coding Instruction: Indicate whether a patient experienced symptom(s) between discharge (or previous follow-up) and current follow-up assessment.

If yes there is documentation that the patient experienced symptoms, indicate whether the symptoms are improved, unchanged or worse. If symptoms are documented but no documentation is present about whether symptoms are improved, unchanged, or worse than code "Yes-Unknown." If there is no documentation of symptoms then code "Not Documented."

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

### Follow-up Symptom Status - 1.3.6.1.4.1.19376.1.4.1.6.5.955

Selection	Definition	Source	Code	Code System
No			100013073	ACC NCDR
Yes - Improved			385425000	SNOMED CT
Yes - Unchanged			260388006	SNOMED CT
Yes - Worse			231877006	SNOMED CT
Yes - Unknown			261665006	SNOMED CT
Not Documented			112000001830	ACC NCDR



Section: Follow-Up		Parent: Follow-Up	
Element: 15759		Hospitalization	
	Coding Instruction:	Indicate if the patient was hospitalized (or is currently hospitalized) or has had an emergency department visit between di previous follow-up) and current follow-up assessment.	scharge (or
	Target Value:	Any occurrence between discharge (or previous follow-up) and current follow-up assessment	
Hospitalization Card	iac Reason - 1.3.6.1.4.1	.19376.1.4.1.6.5.958	
Selection	Definition	Source Code	Code System
No		100013073	ACC NCDR
Yes - Cardiac		11200000678	ACC NCDR
Yes - Non-cardiac		100014165	ACC NCDR
Element: 15760		Hospitalization Date	
	Coding Instruction:	Indicate the date of the start of the hospitalization.	
	Target Value:	Any occurrence between discharge (or previous follow-up) and current follow-up assessment	
Element: 15761		Repeat Ablation	
	Coding Instruction:	Indicate if the patient had a repeat ablation between discharge (or previous follow-up) and current follow-up assessment Note: Code 'yes' only if the repeat ablation was for an atrial arrhythmia.	
	Target Value:	Any occurrence between discharge (or previous follow-up) and current follow-up assessment	
Element: 15762		Repeat Ablation Date	
	Coding Instruction:	Indicate the repeat ablation procedure date.	
	Target Value:	Any occurrence between discharge (or previous follow-up) and current follow-up assessment	



### Section: Follow-Up Medications Parent: Follow-Up

Element: 15772 Follow-up Medications

Coding Instruction: The medication(s) collected in this field are controlled by the Medication Master file. This file is maintained by the NCDR and will be made available on the internet for downloading and importing/updating into your application. Each medication in the Medication Master file is assigned to a value set. The value set is used to separate procedural medications from medications prescribed at discharge. The separation of these medications is depicted on the data collection form.

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

#### Follow-up Medications - 1.3.6.1.4.1.19376.1.4.1.6.5.960 Selection Definition Source Code Code System Amiodarone 703 RxNorm RxNorm Apixaban 1364430 Betrixaban 1927851 RxNorm Dabigatran 1546356 RxNorm Dofetilide 49247 RxNorm Dronedarone 233698 RxNorm Edoxaban 1599538 RxNorm Flecainide 4441 RxNorm Procainamide 8700 RxNorm RxNorm Propafenone 8754 9068 RxNorm Quinidine Rivaroxaban 1114195 RxNorm Sotalol 9947 RxNorm Warfarin 11289 RxNorm

Element: 15773

Follow-up Medication Prescribed

Coding Instruction: Indicate the medication(s) the patient is currently prescribed or the medication(s) that were prescribed at the current follow-up assessment.

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

### Follow-Up Medication Administration - 1.3.6.1.4.1.19376.1.4.1.6.5.371

Selection	Definition	Source	Code	Code System
No			100001048	ACC NCDR
Yes			100001247	ACC NCDR

Element: 15774

Follow-up Medication Discontinued

Coding Instruction: Indicate if the medication(s) the patient is currently prescribed has been discontinued anytime between discharge (or previous followup) and current follow-up assessment.

Code 'Yes' if the medication was discontinued during the follow-up assessment.

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



Section: Follow-Up E	vents		Parent: Follow-Up		
Element: 11011		Follow-Up Events			
Cod	ing Instruction:	The events listed in this field are contro downloading and importing/updating in	Iled by the Event Master file. This file is maintained by th to your application.	e NCDR and will be m	ade available for
	Target Value:	N/A			
Vend	dor Instruction:	A Follow-up - combination Events (110	011), Occurred (11012) and Dates (11014) - may only be	e entered/selected one	ce
Follow-up Events - 2.16.840	0.1.113883.3.3478	3.6.3.20			
Selection	Definition		Source	Code	Code System
Vascular Injury Requiring Intervention	Vascular compl to, access site of dissections, psr Any noted vasc intervention suc surgical repair to qualify as an int compression af pseudoaneurys or hematoma re complication un To qualify, this a	ications can include, but are not limited occlusions, peripheral embolizations, eudoaneurysms and/or AV fistulas. sular complication must have had an ch as a fibrin injection, angioplasty, or io qualify. Prolonged pressure does not tervention, but ultrasonic guided ter making a diagnosis of im does qualify. A retroperitoneal bleed equiring transfusion is not a vascular der this data element. adverse outcome should be attributable		112000004261	ACC NCDR
	to this procedur	re and not related to a previous or			
Vascular Injury Requiring Intervention - Access Site Complication Requiring Intervention	The patient exp that occurred a site. To qualify, any of the follow Hemoglobin dro	verienced significant external bleeding t the access or percutaneous entry the bleeding should be associated with wing documented in the medical record: op of >=3 g/dL;		112000004262	ACC NCDR
	Procedural inter reverse/stop or closures/explor angioplasty to s	rvention/surgery at the bleeding site to correct the bleeding (such as surgical ation of the arteriotomy site, balloon seal an arterial tear).			
Vascular Injury Requiring Intervention - AV-Fistula				112000004264	ACC NCDR
Vascular Injury Requiring	m			112000004263	ACC NCDR
Other Unplanned Cardiac Surgery or Intervention				112000001892	ACC NCDR
Cardiac Arrest	"Sudden" Cardi cardiac activity. no normal breat corrective meas condition progre should be used that is reversed cardioversion o	iac arrest is the sudden cessation of . The victim becomes unresponsive with thing and no signs of circulation. If sures are not taken rapidly, this esses to sudden death. Cardiac arrest to signify an event as described above , usually by CPR and/or defibrillation or or cardiac pacing.	ACCF/AHA 2011 Key Data Elements and Definitions of a Base Cardiovascular Vocabulary for Electronic Health Records. JACC Vol. 58, No. 2, 2011 Weintraub et al. 203; July 5, 2011:202-22	410429000	SNOMED CT
Atrial-Esophageal Fistula		1 0		112000004265	ACC NCDR
Hemolysis Requiring Intervention				112000004266	ACC NCDR
Cardiac Tamponade	Fluid in the peri- filling and requir	cardial space compromising cardiac ring intervention.		35304003	SNOMED CT
Pericardiocentesis				309849004	SNOMED CT
Pericardial effusion requiring intervention	Indicate if the part required interve effusion was sin	atient had a pericardial effusion that ention of any kind. Code 'no' if the mply monitored.		100001073	ACC NCDR
Pericardial effusion resulting cardiac tamponade	<ul> <li>Indicate if the paspace comprominitervention. A pannulus or aortia associated with there would be compromising c such as pericar operating room.</li> <li>Echo show tamponade suc 2. Systemic h compromising c</li> </ul>	atient experienced fluid in the pericardia hising cardiac filling and requiring perforation of the myocardium, aortic a, with or without tamponade the perforation. If tamponade occurs fluid in the pericardial space cardiac filling, and requiring intervention diocentesis or returning to the . This should be documented by either: wing pericardial fluid and signs of th as right heart compromise, or hypotension due to pericardial fluid sardiac function.	1	100001074	ACC NCDR



### AFIB ABLATION REGISTRY<sup>\*\*</sup>

Section: Follow-Up E	vents		Parent: Follow-Up		
Phrenic nerve damage Indicate if the patien damage. Developm the phrenic nerve fu compression (e.g., a procedure), or interr damage from the pr procedure. Stroke An ischemic stroke i global neurological o cord, or retinal vasc of central nervous sy a consequence of is stroke is an ischemi transformation and r hemorrhagic stroke focal or global ceret by intraparenchyma hemorrhagic (note: s bemorrhagic cevents		atient experienced phrenic nerve opment of new sensory or motor loss of ve function from external nerve .g., as a result of positioning during a internal compression or direct nerve ne procedure, occurring within 72 h of a		100001076	ACC NCDR
		ke is an acute episode of focal or cal dysfunction caused by brain, spinal rascular injury as a result of infarction us system tissue. Hemorrhage may be of ischemic stroke. In this situation, the remic stroke with hemorrhagic und not a hemorrhagic stroke. A oke is defined as an acute episode of erebral or spinal dysfunction caused ymal, intraventricular, or subarachnoid te: subdural hematomas are intracranial external on strokes)		10000977	ACC NCDR
Transient ischemic attack (Tl.	A) Transient episo caused by brain without acute in an acceptable i duration of sym distinguish betw infarction shoul which it is used	de of focal neurological dysfunction h, spinal cord, or retinal ischemia hfarction. Persistence of symptoms is ndicator of acute infarction. If it is used, ptom persistence that will be used to ween transient ischemia and acute d be defined for any clinical trial in t.		266257000	SNOMED CT
Element: 11012		Follow-Up Events Occurred			
Cod	ling Instruction: Target Value: dor Instruction:	Indicate if the event(s) occurred. Any occurrence between discharge (or provide the second se	revious follow-up) and current follow-up assessm as been entered/selected more than once, then its	ent Follow-Up Events Occurr	red (11012) cannot
Element: 11014		Follow-Up Event Dates			
Cod	ling Instruction:	Indicate the date the event occurred. Note(s): If an event occurred more than once on the If an event occurred multiple times within the	e same date, record only the first event. the target timeframe, but on different dates, record	each occurrence with its	respective date.
		For events that occurred with an unknown	date, leave the date field blank.		
	Target Value:	All values between discharge (or previous	s follow-up) and current follow-up assessment		



Section: Administration	Parent: Root
Floment: 1000	Participant ID
Coding Instruction:	Participant ID
Target Value:	N/A
Supporting Definition:	Participant ID
	Participant ID is a unique number assigned to each database participant by NCDR. A database participant is defined as one entity that signs a Participation Agreement with the NCDR, submits one data submission file to the harvest, and receives one report on their data.
	Each participant's data if submitted to harvest must be in one data submission file for a quarter. If one participant keeps their data in more than one file (e.g. at two sites), then the data must be combined into a single data submission to the system to file for the harvest. If two or more participants share a single purchased software, and enter cases into one database, then the data must be exported into different data submission files, one for each participant ID.
	Source: NCDR
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
Flement: 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	Vandar Saftwara Vareian
Coding Instruction:	Vendor's software vension
ooung not uoton.	controls the value in this field. This is entered into the schema automatically by vendor software.
Target Value:	N/A
Flement: 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
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.



### Section: Administration

### Parent: Root

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.

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