

ELECTROPHYSIOLOGY CODING GUIDE

Effective January 1, 2025

ELECTROPHYSIOLOGY

Effective January 1, 2025

INTRODUCTION

The Electrophysiology Coding Guide is intended to provide reference material related to general guidelines for the reimbursement of the Electrophysiology procedures when used consistently with the products' labeling. This guide includes information regarding coverage, coding and payment.

REIMBURSEMENT HOTLINE

In addition, Abbott offers a reimbursement hotline, which provides live coding and reimbursement information from dedicated reimbursement specialists. Coding and reimbursement support is available from 8 a.m. to 5 p.m. central time, Monday through Friday at (855) 569-6430. This guide and all supporting documents are available at <https://www.cardiovascular.abbott/us/en/hcp/reimbursement/ep.html>. Coding and reimbursement assistance is provided subject to the disclaimers set forth in this guide.

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CODING AND REIMBURSEMENT FOR ELECTROPHYSIOLOGY

Effective, January 1, 2022, the American Medical Association (AMA) has updated the CPT⁺ procedure code descriptors for 93653, 93654, and 93656 to include bundling of add-on procedures that are frequently reported with these codes by the same provider for the same patient during the same operative session. We have bolded the text in the coding descriptors to highlight the changes.

As a result of these coding updates, the following add-on codes are now bundled into the primary ablation procedure.

Supraventricular tachycardia (SVT) ablation (CPT⁺ code 93653) will include 3D mapping (93613) and left atrial pacing and recording (93621)
 93653: Comprehensive electrophysiologic evaluation with insertion and repositioning of multiple electrode catheters, induction or attempted induction of an arrhythmia with right atrial pacing and recording and catheter ablation of arrhythmogenic focus, including **intracardiac electrophysiologic 3-dimensional mapping**, right ventricular pacing and recording, **left atrial pacing and recording from coronary sinus or left atrium**, and His bundle recording, when performed; with treatment of supraventricular tachycardia by ablation of fast or slow atrioventricular pathway, accessory atrioventricular connection, cavo-tricuspid isthmus or other single atrial focus or source of atrial re-entry

Ventricular tachycardia (VT) ablation (CPT⁺ code 93654) will include left atrial pacing and recording (93621)
 93654: Comprehensive electrophysiologic evaluation with insertion and repositioning of multiple electrode catheters, induction or attempted induction of an arrhythmia with right atrial pacing and recording and catheter ablation of arrhythmogenic focus, including intracardiac electrophysiologic 3-dimensional mapping, right ventricular pacing and recording, **left atrial pacing and recording from coronary sinus or left atrium**, and His bundle recording, when performed; with treatment of ventricular tachycardia or focus of ventricular ectopy including left ventricular pacing and recording, when performed

Pulmonary Vein Isolation (PVI) ablation for AF (CPT⁺ code 93656) will include Intracardiac Echocardiography (ICE) (93662) and 3D mapping (93613)
 93656: Comprehensive electrophysiologic evaluation including transseptal catheterizations, insertion and repositioning of multiple electrode catheters with intracardiac catheter ablation of atrial fibrillation by pulmonary vein isolation, including **intracardiac electrophysiologic 3-dimensional mapping, intracardiac echocardiography including imaging supervision and interpretation**, induction or attempted induction of an arrhythmia including left or right atrial pacing/recording, right ventricular pacing/recording, and His bundle recording, when performed

(+) = Indicates add-on code. List separately in addition to code for primary procedure.

The -26 modifier may be applicable for a number of these codes.

* 93655 and 93657 have a medically unlikely edit (MUE) of 2 units. Ablation codes 93653, 93654, and 93656 do not require a modifier -52.

It is incumbent upon the physician to determine which, if any, modifiers should be used first.

CODING AND REIMBURSEMENT FOR ELECTROPHYSIOLOGY

ELEMENTS OF CARDIAC ABLATION PROCEDURE

Procedure/Services Included with Ablations	SVT ABLATION (93653)			VT ABLATION (93654)			AF ABLATION (93656)		
	Inherent	Bundled	Not bundled; sometimes performed	Inherent	Bundled	Not bundled; sometimes performed	Inherent	Bundled	Not bundled; sometimes performed
Insert/reposition multiple catheters	X			X			X		
Transseptal catheterization(s) (93462)			X			X	X		
Induction or attempted induction of arrhythmia with right atrial pacing and recording	X			X				X	
Intracardiac ablation of arrhythmia	X			X			X		
SVT ablation	X								
VT ablation				X					
AF ablation							X		
Intracardiac 3D mapping (93613)		X			X			X	
Right ventricular pacing and recording (93603)		X			X			X	
Left atrial pacing and recording from coronary sinus or left atrium (93621)		X			X			X	
His bundle recording (93600)		X			X			X	
Left ventricular pacing and recording (93622)					X				
Intracardiac echocardiography (93662)			X			X		X	

Table Reference: CPT® 2022 Professional Edition, Medicine/Cardiovascular, American Medical Association, page 781

(+) = Indicates add-on code. List separately in addition to code for primary procedure.
The -26 modifier may be applicable for a number of these codes.
* 93655 and 93657 have a medically unlikely edit (MUE) of 2 units. Ablation codes 93653, 93654, and 93656 do not require a modifier -52.
It is incumbent upon the physician to determine which, if any, modifiers should be used first.

CODING AND REIMBURSEMENT FOR ELECTROPHYSIOLOGY

PHYSICIAN¹

Electrophysiology studies are invasive diagnostic intracardiac procedures performed to assess patients’ cardiac arrhythmias.

Comprehensive Electrophysiology Evaluations include the following:

- Insertion and repositioning of electrode catheters
- Right atrial pacing and recording
- Right ventricular pacing and recording
- His Bundle recording
- Induction or attempted induction of arrhythmia (in most circumstances)

CPT [‡] CODE	DESCRIPTION	WORK RVU	NATIONAL MEDICARE FACILITY RATE
COMPREHENSIVE ELECTROPHYSIOLOGY STUDIES			
93619-26	Comprehensive electrophysiologic evaluation with right atrial pacing and recording, right ventricular pacing and recording, His bundle recording, including insertion and repositioning of multiple electrode catheters, without induction or attempted induction of arrhythmia	7.06	\$362
93620-26	Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters with induction or attempted induction of arrhythmia; with right atrial pacing and recording, right ventricular pacing and recording, His bundle recording	11.32	\$583
93624-26	Electrophysiologic follow-up study with pacing and recording to test effectiveness of therapy, including induction or attempted induction of arrhythmia	4.55	\$226
+93621-26	Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters with induction or attempted induction of arrhythmia; with left atrial pacing and recording from coronary sinus or left atrium	1.50	\$77
+93622-26	Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters with induction or attempted induction of arrhythmia; with left ventricular pacing and recording	3.10	\$160

(+) = Indicates add-on code. List add-on code separately in addition to code for primary procedure.
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CODING AND REIMBURSEMENT FOR ELECTROPHYSIOLOGY
PHYSICIAN¹

Electrophysiology Study (EP) component codes should be used when all elements in a comprehensive code are not performed and/or documented. (List below is not all inclusive.)

CPT [‡] CODE	DESCRIPTION	WORK RVU	NATIONAL MEDICARE FACILITY RATE
INDIVIDUAL STUDIES*			
93600-26	Bundle of His recording	2.12	\$109
93602-26	Intra-atrial recording	2.12	\$108
93603-26	Right ventricular recording	2.12	\$108
93610-26	Intra-atrial pacing	3.02	\$152
93612-26	Intraventricular pacing	3.02	\$150
MAPPING & ADD-ON PROCEDURES (List separately in addition to code for primary procedure.)			
+93609	Intraventricular and/or intra-atrial mapping of tachycardia site(s) with catheter manipulation to record from multiple sites to identify origin of tachycardia	4.99	\$257
+93613	Intracardiac electrophysiologic 3-dimensional mapping	5.23	\$275
+93623	Programmed stimulation and pacing after intravenous drug infusion	0.98	\$52

(+) = Indicates add-on code. List add-on code separately in addition to code for primary procedure.
The -26 modifier may be applicable for a number of these codes.
* Component (e.g., individual study) codes cannot be billed in conjunction with comprehensive EP codes
It is incumbent upon the physician to determine which, if any, modifiers should be used first.

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CODING AND REIMBURSEMENT FOR ELECTROPHYSIOLOGY

PHYSICIAN¹

Catheter Ablation CPT[‡] codes include Comprehensive EP studies.

CPT [‡] CODE	DESCRIPTION	WORK RVU	NATIONAL MEDICARE FACILITY RATE
CATHETER ABLATION			
93650	Intracardiac catheter ablation of atrioventricular node function, atrioventricular conduction for creation of complete heart block, with or without temporary pacemaker placement	10.24	\$552
93653	Comprehensive electrophysiologic evaluation with insertion and repositioning of multiple electrode catheters, induction or attempted induction of an arrhythmia with right atrial pacing and recording and catheter ablation of arrhythmogenic focus, including intracardiac electrophysiologic 3-dimensional mapping, right ventricular pacing and recording, left atrial pacing and recording from coronary sinus or left atrium, and His bundle recording, when performed; with treatment of supraventricular tachycardia by ablation of fast or slow atrioventricular pathway, accessory atrioventricular connection, cavo-tricuspid isthmus or other single atrial focus or source of atrial re-entry	15.00	\$791
93654	Comprehensive electrophysiologic evaluation with insertion and repositioning of multiple electrode catheters, induction or attempted induction of an arrhythmia with right atrial pacing and recording and catheter ablation of arrhythmogenic focus, including intracardiac electrophysiologic 3-dimensional mapping, right ventricular pacing and recording, left atrial pacing and recording from coronary sinus or left atrium, and His bundle recording, when performed; with treatment of ventricular tachycardia or focus of ventricular ectopy including left ventricular pacing and recording, when performed	18.10	\$954
+93655*	Intracardiac catheter ablation of a discrete mechanism of arrhythmia which is distinct from the primary ablated mechanism, including repeat diagnostic maneuvers, to treat a spontaneous or induced arrhythmia	5.50	\$290

(+) = Indicates add-on code. List separately in addition to code for primary procedure.
The -26 modifier may be applicable for a number of these codes.
* 93655 and 93657 have a medically unlikely edit (MUE) of 2 units. Ablation codes 93653, 93654, and 93656 do not require a modifier -52.
It is incumbent upon the physician to determine which, if any, modifiers should be used first.
93653, 93654, and 93656:
CPT[‡] codes 93653, 93654, and 93656 coding descriptors were updated by the AMA effective for January 1, 2022.

CODING AND REIMBURSEMENT FOR ELECTROPHYSIOLOGY

PHYSICIAN¹

CPT [‡] CODE	DESCRIPTION	WORK RVU	NATIONAL FACILITY RATE	MEDICARE RATE
CATHETER ABLATION (continued)				
93656	Comprehensive electrophysiologic evaluation with transseptal catheterizations, insertion and repositioning of multiple electrode catheters, induction or attempted induction of an arrhythmia including left or right atrial pacing/recording, and intracardiac catheter ablation of atrial fibrillation by pulmonary vein isolation, including intracardiac electrophysiologic 3-dimensional mapping, intracardiac echocardiography with imaging supervision and interpretation, right ventricular pacing/recording, and His bundle recording, when performed	17.00		\$897
+93657*	Additional linear or focal intracardiac catheter ablation of the left or right atrium for treatment of atrial fibrillation remaining after completion of pulmonary vein isolation	5.50		\$291
INTRACARDIAC ECHO / TRANSEPTAL ACCESS (ADD-ON SERVICES) List separately in addition to code for primary procedure.				
+93662	Intracardiac echocardiography during therapeutic/diagnostic intervention, including imaging supervision and interpretation	1.44		\$67
+93462	Left heart catheterization by transseptal puncture through intact septum or by transapical puncture	3.73		\$196
OTHER PROCEDURES: RECORDING				
93615-26	Esophageal recording of atrial electrogram with or without ventricular electrogram(s);	0.74		\$34
93616-26	Esophageal recording of atrial electrogram with or without ventricular electrogram(s); with pacing	1.24		\$55
OTHER PROCEDURES: PACING				
93618-26	Induction of arrhythmia by electrical pacing	4.00		\$203
OTHER PROCEDURES: LEFT ATRIAL APPENDAGE CLOSURE				
33340*	Percutaneous transcatheter closure of the left atrial appendage with endocardial implant, including fluoroscopy, transseptal puncture, catheter placement(s), left atrial angiography, left atrial appendage angiography, when performed, and radiological supervision and interpretation	14.00		\$740

(+) = Indicates add-on code. List separately in addition to code for primary procedure.
It is incumbent upon the physician to determine which, if any, modifiers should be used first.
* Note for combined procedures mapping to DRG 317, the multiple procedure payment reduction may apply.

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CODING AND REIMBURSEMENT FOR ELECTROPHYSIOLOGY

ADD-ON CODES

The following add-on codes can be performed when medically appropriate with the following primary service/procedure code for separate payment. Add-on codes are not subject to the Physician Multiple Payment Reduction Rule. Procedure codes for electrophysiology often times are reported with add-on codes. Add-on codes (+) may not be reported as a stand-alone and must be billed when performed in conjunction with the primary service or procedure.

ADD-ON CODE	ADD-ON CODE CPT [®] CODE DESCRIPTOR (List separately in addition to code for the primary procedure)	CAN BE REPORTED IN CONJUNCTION WITH PRIMARY PROCEDURE CODE
+93609	Intraventricular and/or intra-atrial mapping of tachycardia site(s) with catheter manipulation to record from multiple sites to identify origin of tachycardia	with 93620, 93653, or 93656
+93621	Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters with induction or attempted induction of arrhythmia; with left atrial pacing and recording from coronary sinus or left atrium	with 93620
+93613	Intracardiac electrophysiologic 3-dimensional mapping	with 93620
+93622	Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters with induction or attempted induction of arrhythmia; with left ventricular pacing and recording	with 93620, 93653, 93656
+93623	Programmed stimulation and pacing after intravenous drug infusion	with 93610, 93612, 93619, 93620, 93653, 93654, 93656
+93462	Left heart catheterization by transseptal puncture through intact septum or by transapical puncture	with 93653, 93654
+93655	Intracardiac catheter ablation of a discrete mechanism of arrhythmia which is distinct from the primary ablated mechanism, including repeat diagnostic maneuvers, to treat a spontaneous or induced arrhythmia	with 93653,93654, 93656
+93657	Additional linear or focal intracardiac catheter ablation of the left or right atrium for treatment of atrial fibrillation remaining after completion of pulmonary vein isolation	with 93656
+93662	Intracardiac echocardiography during therapeutic/diagnostic intervention, including imaging supervision and interpretation	with 93620, 93653, 93654

CODING AND REIMBURSEMENT FOR ELECTROPHYSIOLOGY

HOSPITAL OUTPATIENT²

CMS implemented the comprehensive ambulatory payment category (C-APC) policy with the goal of identifying high-cost, device-related services as the primary service on the claim. All other services reported on the same date will be considered “adjunctive, supportive, related or dependent services” provided to support the delivery of the primary service and will be packaged into the OPPTS C-APC payment of the primary service with minor exceptions (e.g., C-APC complexity adjustments).

To recognize more costly, complex cases where multiple C-APC procedures are performed during the same surgical session, CMS finalized a new C-APC “complexity adjustment” policy. To qualify, claims with certain code combinations must meet specific thresholds for both Cost and Frequency. If these thresholds are met, the code combinations qualify for reassignment to the next highest C-APC in the clinical group and potentially higher payment. In EP studies, some code combinations may qualify for a C-APC clinical complexity adjustment.

CPT+ CODE	DESCRIPTION	STATUS INDICATOR	C-APC	APC DESCRIPTION	NATIONAL MEDICARE RATE
COMPREHENSIVE ELECTROPHYSIOLOGY STUDIES					
93619	Comprehensive electrophysiologic evaluation with right atrial pacing and recording, right ventricular pacing and recording, His bundle recording, including insertion and repositioning of multiple electrode catheters, without induction or attempted induction of arrhythmia				
93620*	Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters with induction or attempted induction of arrhythmia; with right atrial pacing and recording, right ventricular pacing and recording, His bundle recording	J1	5212	Level 2 EP Procedures	\$7,588
93624	Electrophysiologic follow-up study with pacing and recording to test effectiveness of therapy, including induction or attempted induction of arrhythmia				
+93621	Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters with induction or attempted induction of arrhythmia; with left atrial pacing and recording from coronary sinus or left atrium	N	Packaged	Packaged	Packaged
+93622	Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters with induction or attempted induction of arrhythmia; with left ventricular pacing and recording				

* CPT+ code 93620 may qualify for a complexity adjusted APC assignment when used in combination with specific primary CPT+ codes.
* Please refer to Addendum J of the CY2022 Final OPPTS Rule for the complete listing of complexity adjustment combinations
J1 = Hospital Part B services paid through a comprehensive APC
N = Items and services packaged into APC rates
(+) = Indicates add-on codes. List separately in addition to code for primary procedure

CODING AND REIMBURSEMENT FOR ELECTROPHYSIOLOGY

HOSPITAL OUTPATIENT²

CPT [†] CODE	DESCRIPTION	STATUS INDICATOR	C-APC	APC DESCRIPTION	NATIONAL MEDICARE RATE
INDIVIDUAL STUDIES					
93600	Bundle of His recording	J1	5212	Level 2 EP Procedures	\$7,588
93602	Intra-atrial recording				
93603	Right ventricular recording	J1	5211	Level 1 EP Procedures	\$1,214
93610	Intra-atrial pacing	J1	5212	Level 2 EP Procedures	\$7,588
93612	Intraventricular pacing				
MAPPING & ADD-ON PROCEDURES					
+93609	Intraventricular and/or intra-atrial mapping of tachycardia site(s) with catheter manipulation to record from multiple sites to identify origin of tachycardia	N	Packaged	Packaged	Packaged
+93613	Intracardiac electrophysiologic 3-dimensional mapping				
+93623	Programmed stimulation and pacing after intravenous drug infusion				

HCPCS CODE	DESCRIPTION	STATUS INDICATOR	APC	APC DESCRIPTION	NATIONAL MEDICARE RATE
IIMAGING-PREPLANNING CARDIAC PROCEDURE					
C9793	3D predictive model generation for preplanning of a cardiac procedure, using data from cardiac computed tomographic angiography and/or magnetic resonance imaging with report	S	5724	Level 4 diagnostic tests and related services	\$1,017

J1 = Hospital Part B services paid through a comprehensive APC
N = Items and services packaged into APC rates
(+) = Indicates add-on code. List separately in addition to code for primary procedure.

CODING AND REIMBURSEMENT FOR ELECTROPHYSIOLOGY

HOSPITAL OUTPATIENT²

CPT [†] CODE	DESCRIPTION	STATUS INDICATOR	C-APC	APC DESCRIPTION	NATIONAL MEDICARE RATE
CATHETER ABLATION					
93650	Intracardiac catheter ablation of atrioventricular node function, atrioventricular conduction for creation of complete heart block, with or without temporary pacemaker placement	J1	5212	Level 2 EP Procedures	\$7,588
93653	Comprehensive electrophysiologic evaluation with insertion and repositioning of multiple electrode catheters, induction or attempted induction of an arrhythmia with right atrial pacing and recording and catheter ablation of arrhythmogenic focus, including intracardiac electrophysiologic 3-dimensional mapping, right ventricular pacing and recording, left atrial pacing and recording from coronary sinus or left atrium, and His bundle recording, when performed; with treatment of supraventricular tachycardia by ablation of fast or slow atrioventricular pathway, accessory atrioventricular connection, cavo-tricuspid isthmus or other single atrial focus or source of atrial re-entry	J1	5213	Level 3 EP Procedures	\$24,532
93654	Comprehensive electrophysiologic evaluation with insertion and repositioning of multiple electrode catheters, induction or attempted induction of an arrhythmia with right atrial pacing and recording and catheter ablation of arrhythmogenic focus, including intracardiac electrophysiologic 3-dimensional mapping, right ventricular pacing and recording, left atrial pacing and recording from coronary sinus or left atrium, and His bundle recording, when performed; with treatment of ventricular tachycardia or focus of ventricular ectopy including left ventricular pacing and recording, when performed				
+93655	Intracardiac catheter ablation of a discrete mechanism of arrhythmia which is distinct from the primary ablated mechanism, including repeat diagnostic maneuvers, to treat a spontaneous or induced arrhythmia	N	Packaged	Packaged	Packaged

J1 = Hospital Part B services paid through a comprehensive APC
N = Items and services packaged into APC rates
(+) = Indicates add-on code. List separately in addition to code for primary procedure.

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HOSPITAL OUTPATIENT²

CPT# CODE	DESCRIPTION	STATUS INDICATOR	C-APC	APC DESCRIPTION	NATIONAL MEDICARE RATE
CATHETER ABLATION					
93656	Comprehensive electrophysiologic evaluation with transseptal catheterizations, insertion and repositioning of multiple electrode catheters, induction or attempted induction of an arrhythmia including left or right atrial pacing/recording, and intracardiac catheter ablation of atrial fibrillation by pulmonary vein isolation, including intracardiac electrophysiologic 3-dimensional mapping, intracardiac echocardiography with imaging supervision and interpretation, right ventricular pacing/recording, and His bundle recording, when performed	J1	5213	Level 3 EP Procedures	\$24,532
+93657	Additional linear or focal intracardiac catheter ablation of the left or right atrium for treatment of atrial fibrillation remaining after completion of pulmonary vein isolation	N	Packaged	Packaged	Packaged
INTRACARDIAC ECHO / TRANSEPTAL ACCESS (ADD-ON SERVICES)					
+93462	Left heart catheterization by transseptal puncture through intact septum or by transapical puncture	N	Packaged	Packaged	Packaged
+93662	Intracardiac echocardiography during therapeutic/diagnostic intervention, including imaging supervision and interpretation				
ESOPHAGEAL RECORDING AND INDUCTION OF ARRHYTHMIA					
93615	Esophageal recording of atrial electrogram with or without ventricular electrogram(s);	J1	5211	Level 1 EP Procedures	\$1,214
93616	Esophageal recording of atrial electrogram with or without ventricular electrogram(s); with pacing				
93618	Induction of arrhythmia by electrical pacing				

J1 = Hospital Part B services paid through a comprehensive APC
N = Items and services packaged into APC rates
+ = Indicates add-on code. List separately in addition to code for primary procedure.

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HOSPITAL INPATIENT³

ICD-10 PCS CODE	DESCRIPTION	TYPICAL MS-DRG ASSIGNMENT	NATIONAL MEDICARE RATE
ELECTROPHYSIOLOGY		273 with MCC 274 without MCC	\$27,906
4A023FZ	Measurement of cardiac rhythm, percutaneous approach		
4A0234Z	Measurement of cardiac electrical activity, percutaneous approach		
02K83ZZ	Map conduction mechanism, percutaneous approach		
02563ZZ	Destruction of right atrium, percutaneous approach		
02573ZZ	Destruction of left atrium, percutaneous approach		
02583ZZ	Destruction of conduction mechanism, percutaneous approach	Does not impact MS-DRG assignment	NA
INTRACARDIAC ECHOCARDIOGRAPHY			
B244YZZ	Ultrasonography of right heart using other contrast		
B244ZZZ	Ultrasonography of right heart		
B245YZZ	Ultrasonography of left heart using other contrast		
B245ZZZ	Ultrasonography of left heart		
B246YZZ	Ultrasonography of right and left heart using other contrast		
B246ZZZ	Ultrasonography of right and left heart		

CODING AND REIMBURSEMENT FOR ELECTROPHYSIOLOGY

HOSPITAL INPATIENT³

CONCOMITANT LEFT ATRIAL APPENDAGE CLOSURE AND CARDIAC ABLATION

ICD-10 PCS CODE ⁹	DESCRIPTION	TYPICAL MS-DRG ASSIGNMENT	NATIONAL MEDICARE RATE
ELECTROPHYSIOLOGY			
4A023FZ	Measurement of cardiac rhythm, percutaneous approach	317	\$44,149
4A0234Z	Measurement of cardiac electrical activity, percutaneous approach		
02K83ZZ	Map conduction mechanism, percutaneous approach		
02563ZZ	Destruction of right atrium, percutaneous approach		
02573ZZ	Destruction of left atrium, percutaneous approach		
02583ZZ	Destruction of conduction mechanism, percutaneous approach		
LEFT ATRIAL APPENDAGE CLOSURE (LAAC)			
02L73DK	Occlusion of left atrial appendage with intraluminal device, percutaneous approach		

INPATIENT ONLY PROCEDURE

The LAAC procedure is designated by CMS as an Inpatient-Only Procedure. This means there is no designated APC payment for the LAAC procedure nor a C-Code for the LAAC device. For non-Medicare Fee For Service Payers who may request LAAC be done in the outpatient setting, consult with the payer on relevant billing instructions and the reimbursement.

For a comprehensive list of procedure codes for MS-DRG 317 please refer to this link [ICD-10-CM/PCS MS-DRG v42.0 Definitions Manual \(cms.gov\)](#).

ELECTROPHYSIOLOGY HCPCS DEVICE CATEGORY C-CODES

C-CODE	DEVICE	MODEL
CATHETER, ELECTROPHYSIOLOGY, DIAGNOSTIC, OTHER THAN 3D MAPPING (19 OR FEWER ELECTRODES)		
C1730	Livewire™ Cannulator	401786, D402058
	Reflexion™ Bi-Directional Decapolar	402800
	Inquiry™ Bi-Directional Decapolar Catheter	81503, 81504, 81101, 81102, 81104, 81105, 81107, 81108, 81520, 81524, 81945, 81947
	Inquiry™ 4 Fr. Fixed Catheters	IBI-80043, IBI-80063, IBI-80064, IBI-80130, IBI- 80131, IBI-80132, IBI-80133, IBI-80134, IBI-80135, IBI-80137, IBI-80138, IBI-80409, IBI-80412, IBI- 80413, IBI-80440, IBI-80452, IBI-80464, IBI-80465, IBI-80466, IBI-80467, IBI-80468, IBI-80469, IBI- 80485, IBI-80515, IBI-80535, IBI-80536, IBI-80567, IBI-80571, IBI-80804, IBI-81531, IBI-81532, IBI-81534, IBI-81537, IBI-81587, IBI-81594, IBI-81595
	Inquiry™ 5 Fr. Fixed Catheters	80051, 80052, 80053, 80054, 80055, IBI-80063, IBI- 80064, 80065, 80451, IBI-80452, 80453, 80454, 80455, 80456, 80458, 80459, 80463, 80556, 80559
	Inquiry™ 6 Fr. Fixed Catheters	80001, 80002, 80003, 80008, 80010, 80017, 80116, 80404, 80405, 80406, 80407, 80408, IBI-80409, 80410, 80411, IBI-80412, IBI-80413, 80414, 80415, 80501, 80508, 80601, 80602, 80603, 80604, 80606, 80630, 80801, 80802, 80803, IBI-80804, 80805, 80806, 80810
	Livewire™	401938, 401939, 401940, 401941, 401990, 401991, 401600, 401603, 401572, 401606, 401933, 401934, 401917, 401949, 401575, 401915, 401923, 401926, 401576, 401577, 401578, 401579, 401583, 401584, 401585, 401586, 401587, 401588, 401580, 401581, 401582, 401653, 401654, 401652, 401782, 401783, 401784, 401785, 401915, 401934, 401935
	Response™	401206, 401207, 401221, 401222, 401223, 401224, 401328, 401359, 401360, 401362, 401366, 401317, 401318, 401374, 401375, 401376, 401209, 401210, 401354, 401211, 401355, 401212, 401325, 401225, 401226, 401356, 401227, 401357, 401228, 401329, 401259, 401260, 401261, 401262, 401154, 401155, 401156, 401158, 401397, 401271, 401272, 401273, 401274, 401275, 401276, 401277, 401278, 401279, 401281, 401282, 401283, 401284, 401285, 401287, 401288, 401290, 401291, 401293, 401294, 401296, 401297, 401298, 401299, 401300, 401301, 401305, 401306, 401307, 401308, 401309, 401310, 401311, 401312, 401313, 401379, 401385, 401386,401387, 401380, 401388, 401389, 401390, 401381, 401353, 401392, 401393, 401399, 401400, 401132, 401130, 401133,401137, 401134, 401135, 401138, 401136

ELECTROPHYSIOLOGY HCPCS DEVICE CATEGORY C-CODES

C-CODE	DEVICE	MODEL
CATHETER, ELECTROPHYSIOLOGY, DIAGNOSTIC, OTHER THAN 3D MAPPING (19 OR FEWER ELECTRODES)		
C1730	Inquiry™ Soft Tip Fixed Catheters	80139, 80470, 80473, 80476, 80478, 80479, 80484, 80516, 80517, 80518, 80519, 80520, 80533, 80534, 80537, 80544, 80627
	Inquiry™ 4 Fr. Steerable Catheters	81540, 81541, 81542, 81545, 81530, IBI-81531, IBI-81532, IBI-81534, 81535, 81536, IBI-81537, 81543
	Inquiry™ 5 Fr. Steerable Catheters	81171, 81172, 81174, 81176, 81177, 81178,81179, 81223, 81224, 81229, 81471, 81472, 81473, 81474, 81475, 81478, 81479, 81871, 81872, 81873, 81874, 81877, 81879, 81886, 81890
	Supreme™	401957, 401433, 401435, 401441, 401443, 401444, 401466, 401448, 401450, 401468, 401871, 401859, 401995, 401954, 401872, 401878, 401863, 401864, 401865, 401956, 401434, 401436, 401438, 401440, 401442, 401474, 401430, 401475, 401445, 401449, 401451, 401453, 401950, 401951, 401952, 401953, 401873, 401876, 401877, 401874, 401879, 401887, 401888, 401889, 401890, 401891, 401892, 401893, 401894, 401896, 401897, 401898, 401966, 401967, 401968, 401978,401979, 401993, 401994, 401995, 401996, 401998, 401999,402004, 402008, 402009, 402010, 402011, 402012, 402013,401955, 401860
	Inquiry™ 6 Fr. Steerable Catheters	81101, 81102, 81104, 81105, 81106, 81107, 81108, 81109, 81231, 81401, 81402, 81403, 81404, 81405, 81406, 81407, 81412, 81414, 81415, 81416, 81417, 81418, 81420, 81462, 81511, 81516, 81520, 81524, 81601, 81602, 81603, 81604, 81605, 81801, 81802, 81803, 81807, 81809, 81810, 81813
	Inquiry™ Soft Tip Steerable Catheters	81203, 81483, 81521, 81703, 81704, 81705, 81706, 81721, 81730, 81731, 81732, 81733, 81734, 81735, 81736, 81737, 81738, 81742, 81743, 81745, 81747, 81750, 81751, 81757, 81758, 81823, 81940, 81943, 81945, 81946, 81947, 81951, 81954, 81956, 81958, 81516
	Inquiry™ HIS Fixed and Steerable	IBI-80440, IBI-80515, 80567, 80820, 80847, 81169, 81483, 81484, 81485, 81711
	Inquiry™ Luma Catheter, Fixed and Steerable	80901, 80902, 81910, 81911, 81912, 81913, 81914, 81915, 81917, 81918, 81920, 81921, 81922, 81937, 81938, 81939, 81960, 81961
	Inquiry™ AFocus™	81591, IBI-81594, IBI-81595, 81596, 81670, 81671, 81672, 81673, 81674, 81676, 81680, 81589, 81597, 81599
	Inquiry™ Optima™	81687, 81767

ELECTROPHYSIOLOGY HCPCS DEVICE CATEGORY C-CODES

C-CODE	DEVICE	MODEL
CATHETER, ELECTROPHYSIOLOGY, DIAGNOSTIC, OTHER THAN 3D MAPPING (20 OR MORE ELECTRODES)		
C1731	Inquiry™ H Curve Catheters	81120, 81124, 81128, 81130, 81131, 81134, 81136, 81150, 81121
	Inquiry™ AFocus™	IBI-81587, 81598, 87008, D087022, D087023, D087024
	Inquiry Optima™	81659, 81683, 87015, 81664
	Inquiry Optima™ PLUS	81717
	Inquiry™ Ten Ten™	81202, 81207, 81209, 81901
	EnSite™ Array™ Catheter	EC1000
	Livewire™ Steerable, Duo-Decapolar	401904, 401905, 401914, 401908, 401918, 401932
	Inquiry™ H-Curve Catheters	81125, 81110, 81112, 81126, 81129, 81142
CATHETER, ELECTROPHYSIOLOGY, DIAGNOSTIC, OTHER THAN 3D MAPPING (19 OR FEWER ELECTRODES) CONTINUED		
C1732	Advisor™ FL Sensor Enabled™ Uni-Directional Circular Mapping Catheter, 15mm Curve	D-AVSE-D10-F15
	Advisor™ FL Sensor Enabled™ Uni-Directional Circular Mapping Catheter, 20mm Curve D	D-AVSE-D10-F20
	Advisor™ FL Sensor Enabled™ Bi-Directional Circular Mapping Catheter, 15mm Curve DF	D-AVSE-DF10-F15
	Advisor™ FL Sensor Enabled™ Bi-Directional Circular Mapping Catheter, 20mm Curve DF	D-AVSE-DF10-F20
	Advisor™ HD Grid Mapping Catheter, Sensor Enabled™ Bi-D High Density Mapping Catheter.	D-AVHD-DF16
	Advisor™ VL Circular Mapping catheter, Sensor Enabled™	D-AVSE-D10-V1525, D-AVSE-D20-V1525, D-AVSE-DF10-V1525, D-AVSE-DF20-V1525
	Inquiry™ AFocus™	IBI-85954, IBI-85955, IBI-85930, IBI-85942
	Inquiry™ AFocus II™	IBI-81587, IBI-81594, IBI-81595, IBI-81596, IBI-81599
	Reflexion™ Spiral Variable Radius Mapping Catheter	402804, D402893, D402865
	Reflexion™ HD Mapping Catheter	D402864

ELECTROPHYSIOLOGY HCPCS DEVICE CATEGORY C-CODES

C-CODE	DEVICE	MODEL
CATHETER, ELECTROPHYSIOLOGY, DIAGNOSTIC/ABLATION, OTHER THAN 3-D OR VECTOR MAPPING, OTHER THAN COOL TIP		
C1733	Livewire™ TC	402153, 402154, 402155, 402156, 402149, 402150, 402151, 402152, 402205, 402206, 402207, 402208, 402271, 402273, 402274
	Safire™, Safire™ TX	402806, 402807, 402808, 402809, 402810, 402811, 402812, 402813, 402814, 402815, 402816, 402817, 402838, 402839, 402840, 402841, 402842, 402843
	Therapy™ Dual-8™	83370, 83371, 83372, 83373, 83374, 83375
	Therapy™ 8 mm Tip	83441, 83442, 83444, 83445, 83446
	Therapy™ Bi-Directional 4 mm Tip	83719, 83720, 83721
	Therapy™ 4 mm Tip	83364, 83365, 83366, 83367, 83368, 83369, 83724, 83725, 83726, 83727
CATHETER, ELECTROPHYSIOLOGY, DIAGNOSTIC/ABLATION, OTHER THAN 3-D OR VECTOR MAPPING, COOL TIP		
C2630	Safire™ Duo Ablation Catheter	A700237 1304-CP2S-8-25-MS-BD-ME 7 F 2-5-2 4 Medium Sweep 110
	MediGuide Enabled™ Irrigated 4 mm Tip	A700238 1304-CP2S-8-25-MC-BD-ME 7 F 2-5-2 4 Medium Curl 110
	Thermocouple Quadripolar	A700239 1304-CP2S-8-25-LS-BD-ME 7 F 2-5-2 4 Large Sweep 110 A700240
	Cool Path™ Duo Ablation Catheter	A700241 1304-CP2-8-25-MS-BD-ME 7 F 2-5-2 4 Medium Sweep 110
	MediGuide Enabled™ Irrigated 4 mm Tip	A700242 1304-CP2-8-25-MC-BD-ME 7 F 2-5-2 4 Medium Curl 110
	Thermocouple Quadripolar 7 F	A700243 1304-CP2-8-25-LS-BD-ME 7 F 2-5-2 4 Large Sweep 110 A700244
	FlexAbility™	A701124, A701125, A701127, A701128, A701129, A701157, A701158, A701159
	FlexAbility Sensor Enabled™ Bi-Directional Irrigated Ablation Catheter, DD Curve	A-FASE-DD
	FlexAbility Sensor Enabled™ Bi-Directional Irrigated Ablation Catheter, DF Curve	A-FASE-DF
	FlexAbility Sensor Enabled™ Bi-Directional Irrigated Ablation Catheter, FF Curve	A-FASE-FF
	FlexAbility Sensor Enabled™ Bi-Directional Irrigated Ablation Catheter, FJ Curve	A-FASE-FJ

ELECTROPHYSIOLOGY HCPCS DEVICE CATEGORY C-CODES

C-CODE	DEVICE	MODEL
CATHETER, ELECTROPHYSIOLOGY, DIAGNOSTIC/ABLATION, OTHER THAN 3-D OR VECTOR MAPPING, COOL TIP CONT'D		
C2630	FlexAbility Sensor Enabled™ Bi-Directional Irrigated Ablation Catheter, JJ Curve	A-FASE-JJ
	FlexAbility Sensor Enabled™ Uni-Directional Irrigated Ablation Catheter, D Curve	A-FASE-D
	FlexAbility Sensor Enabled™ Uni-Directional Irrigated Ablation Catheter, F Curve	A-FASE-F
	FlexAbility Sensor Enabled™ Uni-Directional Irrigated Ablation Catheter, J Curve	A-FASE-J
	Safire™ BLU™	A402869, A402871, A402870, A402872
	Safire™ BLU™ Duo	A088106, A088108, A088107, A088109
	TactiCath™ Quartz	PN-004 075, PN-004 065
	TactiCath™ SE	A-TCSE-DD, A-TCSE-DF, A-TCSE-FF, A-TCSE-FJ, A-TCSE-JJ, A-TCSE-D, A-TCSE-F, A-TCSE-J
	TactiFlex™ Ablation Catheter, Sensor Enabled™	A-TFSE-D, A-TFSE-F, A-TFSE-DD, A-TFSE-FF, A-TFSE-JJ, A-TCSE-D, A-TCSE-F, A-TCSE-J
	Therapy™ Cool Path™	A088046, A088047, A088048, A088049, 83326, 83327, 83328, 83329, 84308, 84309, 84310, 84311, 84312
CATHETER, INTRACARDIAC ECHOCARDIOGRAPHY		
C1759	ViewFlex™ XTRA	D087031
	ViewFlex™ PLUS	100043720
INTRODUCER/SHEATH, GUIDING, INTRACARDIAC ELECTROPHYSIOLOGICAL, STEERABLE, OTHER THAN PEEL-AWAY		
C1766	Agilis™ Introducer	408309, 408310, 408314, 408315, 408312, 408313, G408318, G408319, G408320, G408324, G408332
	Agilis™ Introducer Dual-Reach	SI-1371-S

ELECTROPHYSIOLOGY HCPCS DEVICE CATEGORY C-CODES

C-CODE	DEVICE	MODEL
INTRODUCER/SHEATH, GUIDING, INTRACARIAC ELECTROPHYSIOLOGICAL, FIXED-CURVE, OTHER THAN PEEL-AWAY (CON'T)		
C1893	Fast-Cath™ Two Piece	406869, 406892, 406893
	Fast-Cath™ SAFL™	406871, 406868
	Fast-Cath™ CSTA™	406872, 406870
	Fast-Cath™ SEPT™	406885, 406894
	Fast-Cath™ RAMP™	406898, 406943, 406965, 406975
	Fast-Cath™ Duo	406315, 406316
	Fast-Cath™	406800, 406801, 406802, 406803, 406804, 406805, 406553,406901, 406902, 407436, 407438
	Swartz™ SL Transseptal	406840, 406841, 406842, 406843, 406849, 406850, 406851, 406852, 407400, 407401, 407402, 407403, 406806, 406807, 406808, 406809, 407455, 407443, 407451, 406948, 406949, 407449, 407439, 407441, 407446, 407453, 407457, 407459, 407450, 407440, 407442, 407444, 407447, 407452, 407454, 407456, 407458, 407460, 407445, 407448, 406968, 406969, 406970, 406971
	Swartz™ Reduced Radius SRR	406876, 406877
	Swartz™ Reduced Radius SLR Transseptal	406878, 406879
	Swartz™ LAMP Transseptal	407356, 407357, 407358, 407359, 407360, 407361, 407362, 407363, 407364, 407365, 407366, 407367
	Swartz™ SR	406844, 406845, 406846, 406847, 406848 406853, 406854, 406855, 406856, 406857, 406404, 406405, 407406, 407407, 407408, 406820, 406821, 406822, 406823, 406824, 406967, 406972, 406974

CODING AND REIMBURSEMENT FOR ELECTROPHYSIOLOGY

ICD-10-CM DIAGNOSIS CODES⁵

Diagnosis codes are used by both hospitals and physicians to document the medical necessity and clinical rationale for the procedure. For Electrophysiology patients, there are many possible diagnosis code scenarios and a wide variety of possible combinations. This list is not exhaustive of all the diagnosis codes supporting EP procedures and is meant to serve as an example for your review. The customer should check with their local carriers or intermediaries and should consult with legal counsel or a financial, coding or reimbursement specialist for coding, reimbursement or billing questions related to ICD-10-CM diagnosis codes.

ICM-10-CM DESCRIPTION	
CARDIAC DYSRHYTHMIAS	
I47.0	Re-entry ventricular arrhythmia
I47.1	Supraventricular tachycardia (AVNRT, atrial, AV, junctional, nodal)
I47.2	Ventricular tachycardia
I47.9	Paroxysmal tachycardia, unspecified (Bouveret [-Hoffman] syndrome)
I48.0	Paroxysmal atrial fibrillation
I48.11	Longstanding persistent atrial fibrillation
I48.19	Other persistent atrial fibrillation
I48.20	Chronic atrial fibrillation, unspecified
I48.21	Permanent atrial fibrillation
I48.3	Typical atrial flutter (Type I atrial flutter)
I48.4	Atypical atrial flutter (Type II atrial flutter)
I48.91	Unspecified atrial fibrillation
I48.92	Unspecified atrial flutter
I49.01	Ventricular fibrillation

CODING AND REIMBURSEMENT FOR ELECTROPHYSIOLOGY

ICD-10-CM DIAGNOSIS CODES⁵ CONTINUED

ICM-10-CM DESCRIPTION	
CARDIAC DYSRHYTHMIAS	
I49.02	Ventricular flutter
I49.1	Atrial premature depolarization (atrial premature beats)
I49.2	Junctional premature depolarization
I49.3	Ventricular premature depolarization
I49.40	Unspecified premature depolarization (premature beats NOS)
I49.49	Other premature depolarization (ectopic, extrasystole)
I49.5	Sick sinus syndrome (tachycardia-bradycardia syndrome)
I49.8	Other specified cardiac arrhythmias (Brugada syndrome, coronary sinus rhythm disorder)
I49.9	Cardiac arrhythmia, unspecified
Z00.6	Encounter for exam for normal comparison and control in clinical research program
ABNORMALITIES OF HEART BEAT (SYMPTOMS)	
R00.0	Tachycardia, unspecified (sinoauricular tachycardia NOS, sinus tachycardia NOS)
R00.1	Bradycardia, unspecified (sinus bradycardia, vagal bradycardia)
R00.2	Palpitations
R00.8	Other abnormalities of heart beat
R00.9	Unspecified abnormalities of heart beat

HEALTH ECONOMICS & REIMBURSEMENT

References

1. Physician Prospective Payment-Final rule with Comment Period and Final CY2025 Payment Rates. CMS-1807-F: <https://www.cms.gov/medicare/payment/fee-schedules/physician/federal-regulation-notice/cms-1807-f>
2. Hospital Outpatient Prospective Payment-CY2025 Notice of Final Rulemaking with Comment Period (NFRM). CMS-1809-FC: <https://www.cms.gov/medicare/payment/prospective-payment-systems/hospital-outpatient/regulations-notice/cms-1809-fc>
3. CMS_2025_Hospital Inpatient Prospective Payment-Final Rule CMS-1808-F: <https://www.cms.gov/medicare/payment/prospective-payment-systems/acute-inpatient-pps/fy-2025-ipps-final-rule-home-page>
4. CMS, 2020 Alpha-Numeric Index HCPCS code set: <https://www.cms.gov/Medicare/Coding/HCPCSReleaseCodeSets/Alpha-Numeric-HCPCS>
5. CMS 2025 ICD-10-CM: <https://www.cms.gov/files/document/fy-2025-icd-10-cm-coding-guidelines.pdf>
6. Abbott Product List: <https://www.abbott.com/product-list.html>
7. AMA_2024_CPT American Medical Association. <https://www.ama-assn.org/>
8. CMS 2024 Medicare NCCI Medically Unlikely Edits (MUEs) <https://www.cms.gov/medicare-medicare-coordination/national-correct-coding-initiative-ncci/ncci-medicare/medicare-ncci-medically-unlikely-edits>
9. CMS_2025 ICD-10-PCS: <https://www.cms.gov/medicare/icd-10/2024-icd-10-pcs>
10. ICD-10-CM/PCS MS-DRG v42.0 Definitions Manual [ICD-10-CM/PCS MS-DRG v42.0 Definitions Manual \(cms.gov\)](#)

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