



HEALTH ECONOMICS & REIMBURSEMENT

CARDIAC RHYTHM MANAGEMENT

National Medicare Reimbursement Guide

Pacemakers

Effective January 1, 2023

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It should be noted that there are usually differences between economic modelling actual results. Abbott does not take responsibility for any such discrepancies. There is no guarantee of any potential economic outcome, including payment, cost savings, or procedure volume. Economic outcomes are dependent on many factors and will vary.

Certain Maryland hospitals paid under Maryland Waiver provisions using All Patient Refined Diagnosis Related Group (APR-DRG) are excluded from payment under the Medicare Inpatient Prospective Payment System (IPPS).

Reimbursement Calculators should not be provided at no charge to actively licensed Healthcare Professionals (HCPs) who regularly practice in Vermont.

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NATIONAL CARDIAC RHYTHM MANAGEMENT MEDICARE REIMBURSEMENT GUIDE

Effective January 1, 2023

Introduction

This content is intended to provide reference material related to general guidelines for reimbursement when used consistently with the product's labeling. This content includes information regarding coverage, coding and reimbursement. Additional resources can be found at www.cardiovascular.abbott/us/en/hcp/reimbursement.html

Remote Monitoring Reimbursement G-Code

The technical component code of remote monitoring for Implantable Cardiovascular Physiologic Monitoring Systems and Implantable/Insertable Cardiac Monitors (ICMs), CPT Code 93299, was deleted January 1, 2020. The Centers for Medicare & Medicaid Services (CMS) created a new G-code, G2066, to report this service. G2066 can be reported by physicians and outpatient hospitals. G2066 continues to be carrier-priced, as 93299 was, and the description of the code remains the same. See the Cardiac Device Monitoring section for more information.

Biventricular Pacing / Cardiac Resynchronization Therapy (CRT)

In certain circumstances, an additional lead may be required to achieve pacing of the left ventricle (biventricular pacing). In this event, the additional transvenous lead placement should be separately reported using 33224 or 33225. 33226 is reported for repositioning. See the Cardiac Resynchronization Therapy section for more information.

Reimbursement Hotline

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 or CRM_PTA@abbott.com. Coding and reimbursement assistance is provided subject to the disclaimers set forth in this content. This content and all supporting documents are available at www.cardiovascular.abbott/us/en/hcp/reimbursement.html

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PACEMAKERS

Physician

CPT [®] CODE	DESCRIPTION	WORK RVU	MEDICARE NATIONAL RATE	
			FACILITY	NON-FACILITY
SYSTEM IMPLANT OR REPLACEMENT				
33206	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial	7.14	\$456	NA
33207	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); ventricular	7.80	\$479	NA
33208	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial and ventricular	8.52	\$519	NA
GENERATOR REMOVAL/REVISION (BATTERY REPLACEMENT)				
33227	Removal of permanent pacemaker pulse generator with replacement of pacemaker pulse generator; single lead system	5.25	\$340	NA
33228	Removal of permanent pacemaker pulse generator with replacement of pacemaker pulse generator; dual lead system	5.52	\$355	NA
SYSTEM UPGRADE: SINGLE CHAMBER TO DUAL CHAMBER PACEMAKER				
33214	Upgrade of implanted pacemaker system, conversion of single chamber system to dual chamber system (includes removal of previously placed pulse generator, testing of existing lead, insertion of new lead, insertion of new pulse generator)	7.59	\$481	NA
GENERATOR REMOVAL (BATTERY REMOVAL WITHOUT REPLACEMENT)				
33233	Removal of permanent pacemaker pulse generator only	3.14	\$235	NA
GENERATOR REMOVAL WITH REPLACEMENT				
33229	Removal of permanent pacemaker pulse generator with replacement of pacemaker pulse generator; multiple lead system	5.79	\$375	NA

NA: Medicare has not established a payment amount for this code. Check with your local Medicare Administrative Contractor (MAC) to verify the payment amount. It is incumbent upon the physician to determine which, if any, modifiers should be used first.

PACEMAKERS

Physician

CPT [®] CODE	DESCRIPTION	WORK RVU	MEDICARE NATIONAL RATE	
			FACILITY	NON-FACILITY
GENERATOR IMPLANT				
33212	Insertion of pacemaker pulse generator only; with existing single lead	5.01	\$322	NA
33213	Insertion of pacemaker pulse generator only; with existing dual leads	5.28	\$337	NA
RELOCATION OF SKIN POCKET				
33222	Relocation of skin pocket for pacemaker	4.85	\$345	NA
LEAD PROCEDURES				
33216	Insertion of a single transvenous electrode, permanent pacemaker or implantable defibrillator	5.62	\$374	NA
33217	Insertion of 2 transvenous electrodes, permanent pacemaker or implantable defibrillator	5.59	\$370	NA
33215	Repositioning of previously implanted transvenous pacemaker or implantable defibrillator (right atrial or right ventricular) electrode	4.92	\$311	NA
33218	Repair of single transvenous electrode, permanent pacemaker or implantable defibrillator	5.82	\$392	NA
33220	Repair of 2 transvenous electrodes for permanent pacemaker or implantable defibrillator	5.9	\$378	NA
33234	Removal of transvenous pacemaker electrode(s); single lead system, atrial or ventricular	7.66	\$486	NA
33235	Removal of transvenous pacemaker electrode(s); dual lead system	9.9	\$639	NA

NA: Medicare has not established a payment amount for this code. Check with your local Medicare Administrative Contractor (MAC) to verify the payment amount. It is incumbent upon the physician to determine which, if any, modifiers should be used first.



PACEMAKERS

Hospital Outpatient

CPT CODE	DESCRIPTION	STATUS INDICATOR	APC	MEDICARE NATIONAL RATE
SYSTEM IMPLANT OR REPLACEMENT				
33206	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial	J1	5223	\$10,329
33207	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); ventricular	J1	5223	\$10,329
33208	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial and ventricular	J1	5223	\$10,329
GENERATOR REMOVAL/REVISION (BATTERY REPLACEMENT)				
33227	Removal of permanent pacemaker pulse generator with replacement of pacemaker pulse generator; single lead system	J1	5222	\$8,163
33228	Removal of permanent pacemaker pulse generator with replacement of pacemaker pulse generator; dual lead system	J1	5223	\$10,329
SYSTEM UPGRADE: SINGLE CHAMBER TO DUAL CHAMBER PACEMAKER				
33214	Upgrade of implanted pacemaker system, conversion of single-chamber system to dualchamber system (includes removal of previously placed pulse generator, testing of existing lead, insertion of new lead, insertion of new pulse generator)	J1	5223	\$10,329
GENERATOR REMOVAL (BATTERY REMOVAL WITHOUT REPLACEMENT)				
33233	Removal of permanent pacemaker pulse generator only	Q2	5222	\$8,163
GENERATOR REMOVAL WITH REPLACEMENT				
33229	Removal of permanent pacemaker pulse generator with replacement of pacemaker pulse generator; multiple lead system	J1	5224	\$18,672

J1: Hospital Part B services paid through a comprehensive APC

Q2: T Packaged codes



PACEMAKERS

Hospital Outpatient

CPT CODE	DESCRIPTION	STATUS INDICATOR	APC	MEDICARE NATIONAL RATE
GENERATOR IMPLANT				
33212	Insertion of pacemaker pulse generator only; with existing single lead	J1	5222	\$8,163
33213	Insertion of pacemaker pulse generator only; with existing dual leads	J1	5223	\$10,329
RELOCATION OF SKIN POCKET				
33222	Relocation of skin pocket for pacemaker	T	5054	\$1,726
LEAD PROCEDURES				
33216	Insertion of a single transvenous electrode, permanent pacemaker or implantable defibrillator	J1	5222	\$8,163
33217	Insertion of 2 transvenous electrodes, permanent pacemaker or implantable defibrillator	J1	5222	\$8,163
33215	Repositioning of previously implanted transvenous pacemaker or implantable defibrillator (right atrial or right ventricular) electrode	J1	5183	\$2,979
33218	Repair of single transvenous electrode, permanent pacemaker or implantable defibrillator	T	5221	\$3,351
33220	Repair of 2 transvenous electrodes for permanent pacemaker or implantable defibrillator	T	5221	\$3,351
33234	Removal of transvenous pacemaker electrode(s); single lead system, atrial or ventricular	Q2	5221	\$3,351
33235	Removal of transvenous pacemaker electrode(s); dual lead system	Q2	5221	\$3,351

J1: Hospital Part B services paid through a comprehensive APC

Q2: T Packaged codes

T = Significant procedure, multiple reduction applies



PACEMAKERS

Ambulatory Surgery Center (ASC)

CPT CODE	DESCRIPTION	PAYMENT INDICATOR	MULTI-PROCEDURE DISCOUNT	MEDICARE NATIONAL RATE
SYSTEM IMPLANT OR REPLACEMENT				
33206	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial	J8	Y	\$7,557
33207	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); ventricular	J8	Y	\$7,529
33208	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial and ventricular	J8	Y	\$7,722
GENERATOR REMOVAL/REVISION (BATTERY REPLACEMENT)				
33227	Removal of permanent pacemaker pulse generator with replacement of pacemaker pulse generator; single lead system	J8	Y	\$6,410
33228	Removal of permanent pacemaker pulse generator with replacement of pacemaker pulse generator; dual lead system	J8	Y	\$7,547
SYSTEM UPGRADE: SINGLE CHAMBER TO DUAL CHAMBER PACEMAKER				
33214	Upgrade of implanted pacemaker system, conversion of single-chamber system to dual-chamber system (includes removal of previously placed pulse generator, testing of existing lead, insertion of new lead, insertion of new pulse generator)	J8	Y	\$7,466
GENERATOR REMOVAL (BATTERY REMOVAL WITHOUT REPLACEMENT)				
33233	Removal of permanent pacemaker pulse generator only	J8	N	\$5,999
GENERATOR REMOVAL WITH REPLACEMENT				
33229	Removal of permanent pacemaker pulse generator with replacement of pacemaker pulse generator; multiple lead system	J8	Y	\$11,850

J8: Device-intensive procedure; paid at an adjusted rate.



PACEMAKERS

Ambulatory Surgery Center (ASC)

CPT CODE	DESCRIPTION	PAYMENT INDICATOR	MULTI-PROCEDURE DISCOUNT	MEDICARE NATIONAL RATE
GENERATOR IMPLANT				
33212	Insertion of pacemaker pulse generator only; with existing single lead	J8	Y	\$6,563
33213	Insertion of pacemaker pulse generator only; with existing dual leads	J8	Y	\$7,714
RELOCATION OF SKIN POCKET				
33222	Relocation of skin pocket for pacemaker	A2	Y	\$899
LEAD PROCEDURES				
33216	Insertion of a single transvenous electrode, permanent pacemaker or implantable defibrillator	J8	Y	\$5,956
33217	Insertion of 2 transvenous electrodes, permanent pacemaker or implantable defibrillator	J8	Y	\$6,467
33215	Repositioning of previously implanted transvenous pacemaker or implantable defibrillator (right atrial or right ventricular) electrode	G2	Y	\$1,444
33218	Repair of single transvenous electrode, permanent pacemaker or implantable defibrillator	G2	Y	\$1,745
33220	Repair of 2 transvenous electrodes for permanent pacemaker or implantable defibrillator	J8	Y	\$2,299
33234	Removal of transvenous pacemaker electrode(s); single lead system, atrial or ventricular	J8	N	\$2,371
33235	Removal of transvenous pacemaker electrode(s); dual lead system	J8	N	\$2,276

A2: Surgical procedure on ASC list in CY 2007; payment based on OPSS relative payment weight.

G2: Non-office-based surgical procedure added in CY 2008 or later; payment based on OPSS relative payment weight

J8: Device-intensive procedure; paid at an adjusted rate.

PACEMAKERS

Hospital Inpatient

Note: report the combination of device insertion and/or lead(s) codes that best describes the procedure performed

ICD-10 PCS CODE	DESCRIPTION	TYPICAL MS-DRG ASSIGNMENT	MEDICARE NATIONAL RATE
PERMANENT CARDIAC PACEMAKER IMPLANT (DRGs 242, 243 AND 244)			
0JH60PZ	Insertion of cardiac rhythm related device into chest subcutaneous tissue and fascia, open approach	242 with MCC	\$23,826
0JH63PZ	Insertion of cardiac rhythm related device into chest subcutaneous tissue and fascia, percutaneous approach		
0JH80PZ	Insertion of cardiac rhythm related device into abdomen subcutaneous tissue and fascia, open approach		
0JH83PZ	Insertion of cardiac rhythm related device into abdomen subcutaneous tissue and fascia, percutaneous approach	243 with CC	\$16,079
0JH604Z	Insertion of pacemaker, single chamber into chest subcutaneous tissue and fascia, open approach		
0JH634Z	Insertion of pacemaker, single chamber into chest subcutaneous tissue and fascia, percutaneous approach		
0JH804Z	Insertion of pacemaker, single chamber into abdomen subcutaneous tissue and fascia, open approach	244 without CC/MCC	\$13,041
0JH834Z	Insertion of pacemaker, single chamber rate responsive into abdomen subcutaneous tissue and fascia, percutaneous approach		
0JH605Z	Insertion of pacemaker, single chamber rate responsive into chest subcutaneous tissue and fascia, open approach		
0JH635Z	Insertion of pacemaker, single chamber rate responsive into chest subcutaneous tissue and fascia, percutaneous approach		

Continued on next page

CC: complication or comorbidity. MCC: a major complication or comorbidity when used as a secondary diagnosis



PACEMAKERS

Hospital Inpatient

Note: report the combination of device insertion and/or lead(s) codes that best describes the procedure performed

ICD-10 PCS CODE	DESCRIPTION	TYPICAL MS-DRG ASSIGNMENT	MEDICARE NATIONAL RATE
PERMANENT CARDIAC PACEMAKER IMPLANT (DRGs 242, 243 AND 244) (continued)			
0JH805Z	Insertion of pacemaker, single chamber rate responsive into abdomen subcutaneous tissue and fascia, open approach	242 with MCC	\$23,826
0JH835Z	Insertion of pacemaker, single chamber rate responsive into abdomen subcutaneous tissue and fascia, percutaneous approach		
0JH606Z	Insertion of pacemaker, dual chamber into chest subcutaneous tissue and fascia, open approach	243 with CC	\$16,079
0JH636Z	Insertion of pacemaker, dual chamber into chest subcutaneous tissue and fascia, percutaneous approach		
0JH806Z	Insertion of pacemaker, dual chamber into abdomen subcutaneous tissue and fascia, open approach		
0JH836Z	Insertion of pacemaker, dual chamber into abdomen subcutaneous tissue and fascia, percutaneous approach	244 without CC/MCC	\$13,041
02HK4JZ	Insertion of pacemaker lead into right ventricle, percutaneous endoscopic approach		
02HK3JZ	Insertion of pacemaker lead into right ventricle, percutaneous approach		
02HK0JZ	Insertion of pacemaker lead into right ventricle, open approach		

CC: complication or comorbidity. MCC: a major complication or comorbidity when used as a secondary diagnosis

PACEMAKERS

Hospital Inpatient

Note: report the combination of device insertion and/or lead(s) codes that best describes the procedure performed

ICD-10 PCS CODE	DESCRIPTION	TYPICAL MS-DRG ASSIGNMENT	MEDICARE NATIONAL RATE
CARDIAC PACEMAKER DEVICE REPLACEMENT (DRGs 258 AND 259)			
0JPT0PZ	Removal of cardiac rhythm related device from trunk subcutaneous tissue and fascia, open approach	258 with MCC	\$19,558
0JPT3PZ	Removal of cardiac rhythm related device from trunk subcutaneous tissue and fascia, percutaneous approach	259 without MCC	\$13,679
CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT (DRGs 260, 261 AND 262)			
02WA0MZ	Revision of cardiac lead in heart, open approach	260 with MCC	\$23,999
02WA3MZ	Revision of cardiac lead in heart, percutaneous approach		
02WA4MZ	Revision of cardiac lead in heart, percutaneous endoscopic approach	261 with CC	\$13,107
0JWT0PZ	Revision of cardiac rhythm related device in trunk subcutaneous tissue and fascia, open approach	262 without CC/MCC	\$11,502
0JWT3PZ	Revision of cardiac rhythm related device in trunk subcutaneous tissue and fascia, percutaneous approach		

CC: complication or comorbidity. MCC: a major complication or comorbidity when used as a secondary diagnosis

PACEMAKERS

HCPCS Device Category C-Codes

C-CODE	DESCRIPTION
PACEMAKER GENERATOR IMPLANT	
C1785	Pacemaker, dual-chamber, rate-responsive (implantable)
C2621	Pacemaker, other than single or dual-chamber (implantable)
C2620	Pacemaker, single-chamber, non-rate-responsive (implantable)
C1786	Pacemaker, single-chamber, rate-responsive (implantable)
C2619	Pacemaker, dual-chamber, non-rate-responsive (implantable)
LEADS	
C1883	Adapter/extension, pacing lead or neurostimulator (implantable)
C1900	Lead, left ventricular coronary venous system
C1898	Lead, pacemaker, other than transvenous VDD single pass
C1779	Lead, pacemaker, transvenous VDD single pass

ICD-10-CM Diagnosis Codes

Diagnosis codes are used by both hospitals and physicians to document the indication for the procedure. For Cardiac Pacemaker, Implantable Cardioverter Defibrillator (ICD) and Implantable/Insertable Cardiac Monitors (ICM) patients, there are many possible diagnosis code scenarios and a wide variety of possible combinations. The possible scenarios and combinations are too numerous to capture in this document. 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.

1. FY2023 IPPS Final Rule Home Page. U.S. Centers for Medicare and Medicaid Services. [cited: August 2022].
<https://www.cms.gov/medicare/acute-inpatient-pps/fy-2023-ipp-pps-final-rule-home-page>
2. CY2023 ASC Final Notice Home Page. U.S. Centers for Medicare and Medicaid Services. [cited: November 2022].
<https://www.cms.gov/medicare/medicare-fee-service-payment/asc-payment/asc-regulations-and-notices/cms-1772-fc>
3. CY2023 MPFS Final Rule Home Page. U.S. Centers for Medicare and Medicaid Services. [cited: January 2023].
<https://www.cms.gov/medicare/medicare-fee-service-payment/physicianfeesched/phys-federal-regulation-notices/cms-1770-f>
4. CY2023 OPPS Final Rule Home Page. U.S. Centers for Medicare and Medicaid Services. [cited: November 2022].
<https://www.cms.gov/httpswwwcmsgovmedicare/medicare-fee-service-payment/hospitaloutpatientppshospital-outpatient/cms-1772-fc>
5. FY2022 IPPS Final Rule with Correction Notice Home Page. U.S. Centers for Medicare and Medicaid Services. [cited: November 2020].
<https://www.cms.gov/medicare/acute-inpatient-pps/fy-2022-ipp-pps-final-rule-home-page>
6. CY2022 OPPS Final Rule with Correction Notice. U.S. Centers for Medicare and Medicaid Services. [cited: November 2022].
<https://www.cms.gov/medicare/medicare-fee-service-payment/hospitaloutpatientppshospital-outpatient-regulations-and-notices/cms-1753-cn>
7. Provider Outpatient Hospital Charge Data by APC, CY2020. [cited: November 2022].
<https://data.cms.gov/provider-summary-by-type-of-service/medicare-outpatient-hospitals/medicare-outpatient-hospitals-by-provider-and-service>
8. Medicare Inpatient Hospitals - by Provider and Service - FY2020 [cited: August 2022].
<https://data.cms.gov/provider-summary-by-type-of-service/medicare-inpatient-hospitals/medicare-inpatient-hospitals-by-provider-and-service>
9. HOSPITAL ACUTE INPATIENT SERVICES PAYMENT SYSTEM - PAYMENT BASICS [cited: December 2020]
http://www.medpac.gov/docs/default-source/payment-basics/medpac_payment_basics_19_hospital_final_v2_sec.pdf?sfvrsn=0
10. CGS Medicare Part B Fees [cited: January 2021].
<https://www.cgsmedicare.com/partb/fees/index.html>
11. First Coast Service Options (FCSO) Medicare Part B Fees [cited: January 2021].
https://medicare.fcso.com/SharedTools/faces/FeeSchedule_en.jspx?_af=state=
12. National Government Services (NGS) Medicare Fee Schedule Lookup [cited: January 2021].
<https://www.ngsmedicare.com/web/ngs/fee-schedules-and-pricers?lob=93617&state=97256®ion=93623>
13. Noridian Healthcare Solutions Medicare Contractor Status Codes (C-Status) [cited: January 2021].
<https://med.noridianmedicare.com/web/eb/fees-news/fee-schedules/contractor-status-codes-c-status>
14. Novitas Solutions Medicare Physician's Fee Schedule [cited: February 2023].
<https://www.novitas-solutions.com/webcenter/portal/MedicareJH/FeeLookup>
15. Palmetto GBA Medicare Physician Fee Schedule Part B [cited: January 2021].
https://www.palmettogba.com/palmetto/fees_front.nsf/fee_main?OpenForm
16. WPS Medicare Physician Fee Schedules [cited: January 2021].
<https://www.wpsgha.com/wps/portal/mac/site/fees-and-reimbursements/guides-and-resources/2021-mpfs/lut/p/z0/fczRCoMgFIDhJ5JjDgTbNhouku1q2LmJwzKTNhWtP96gJ3-8PEDg9EM9PWONh8DvY8eUI4PoaSqa7fhea80dfnqa37862R0AH-B8dBZH3RDjDRtjAf5gJG7X6yhVGYWLYI7vllCxiBRcU-aS6QVhx-vBiffAII/>

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