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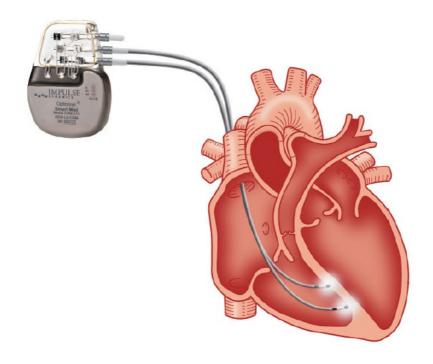
IMPULSE DYNAMICS Implantable Optimizer Smart System User Guide

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IMPULSE

IMPULSE DYNAMICS Implantable Optimizer Smart System



Specifications

- Product Name: Cardiac Contractility Modulations implants
- · Usage: Treatment of heart failure

Product Usage Instructions

- 0408T Insertion or replacement of permanent cardiac contractility modulation system, including contractility evaluation when performed, and programming of sensing and therapeutic parameters; pulse generator with transvenous electrodes
- 0409T Insertion or replacement of permanent cardiac contractility modulation system, including contractility evaluation when performed, and programming of sensing and therapeutic parameters; pulse generator only

Medicare National Average Payment:

- 0408T \$32,062
- 0409T \$8,276

Frequently Asked Questions (FAQ)

- Q: How do I find payment information for CCM implants?
 - A: Physician Billing CCM implants are described by Category III CPT codes. Please refer to your Medicare Administrative Contractor's website or contact Impulse Dynamics for specific payment information in your jurisdiction.
- Q: How can I submit additional questions?
 - A: Additional questions can be submitted to reimbursement@impulse-dynamics.com.

This coding and reimbursement resource is designed to provide information for appropriate billing of Cardiac Contractility Modulations implants for the treatment of heart failure.

Additional questions may be submitted to reimbursement@impulse-dynamics.com

Physician, Outpatient Hospital and Ambulatory Surgery Center Coding

The following CPT Codes, Ambulatory Payment Classifications (APC), status indicators, and national average payments are provided for commonly reported CCM procedure billing physicians, hospital outpatient departments or ambulatory surgery centers.

Product Information

CPT Code ¹	Description	OPPS APC	OPPS Status Indicator	2025 Medicare National Average Payment ²
CCM® IN	ISERTION OR REPLACEMENT PROCEDURES			
0408T	Insertion or replacement of permanent cardiac contractility modulation system, including contractility evaluation when performed, and programming of sensing and therapeutic parameters; pulse generator with transvenous electrodes	5232	J1	\$32.062
0409T	Insertion or replacement of permanent cardiac contractility modulation system, including contractility evaluation when performed, and programming of sensing and therapeutic parameters; pulse generator only	5232	J1	\$32,062
0410T	Insertion or replacement of permanent cardiac contractility modulation system, including contractility evaluation when performed, and programming of sensing and therapeutic parameters; atrial electrode only	5222	J1	\$8,276
0411T	Insertion or replacement of permanent cardiac contractility modulation system, including contractility evaluation when performed, and programming of sensing and therapeutic parameters; ventricular electrode only	5222	J1	\$8,276
CCM® R	EMOVAL PROCEDURES			
0412T	Removal of permanent cardiac contractility modulation system; pulse generator only	5221	Q2(T)	\$3,639
0413T	Removal of permanent cardiac contractility modulation system; transvenous electrode (atrial or ventricular)	5221	Q2(T)	\$3,639
0414T	Removal and replacement of permanent cardiac contractility modulation system pulse generator only	5231	J1	\$22.446

<i>CCM</i> ® P	CCM® PROGRAMMING PROCEDURES				
0417T	Programming device evaluation (in person) with iterative adjustment of the implantable device to test the function of the device and select optimal permanent programmed values with analysis, including review and report, implantable cardiac contractility modulation system	5741	Q1(S)	\$37	
0418T	Interrogation device evaluation (in person) with analysis, review and report, includes connection, recording and disconnection per patient encounter, implantable cardiac contractility modulation system	5741	Q1(S)	\$37	

Outpatient Facility Billing

Category III CPT codes are used to designate procedures utilizing emerging technologies. Although Optimizer® Smart received FDA approval on March 21, 2019 under the FDA's Breakthrough Device designation, the AMA and has yet to issue Category I CPT codes for CCM.

Until Category I CPT codes are issued, payers may continue to perceive the Category III CPT codes associated with CCM as representing investigational or experimental procedures. While this document indicates accurate mapping to APCs, providers and their facility partners should pursue prior authorization before scheduling or conducting CCM implant procedures to ensure payers will not withhold payment. For assistance with prior authorization and appeals, visit www.impulse-dynamics.com/reimbursement

Physician Billing

- CCM implants are described by Category III CPT codes. By definition, such codes are not assigned permanent RVU values by the AMA. Several Medicare Administrative Contractors (MACs) have assigned payment values to these CPT codes. Please refer to your MAC's website or contact Impulse Dynamics for information on payment in your specific contractor's jurisdiction.
- When performing CCM implants in MAC jurisdictions in which payment values have not been assigned or for non-Medicare payors, physicians submitting a claim for the CCM implant are advised to reference an existing service or procedure comparable to the CCM implant procedure in terms of costs and resources. A list of possible Category I CPT reference codes is shown on the following page. For more detailed information on use of reference codes for CCM procedures, please consult the Impulse Dynamics CPT Crosswalk Guidance.
- Medicare assigned XXX (global concept does not apply) to all ten codes applicable to CCM procedures; leaving payment to the discretion of the applicable MAC.

CPT Code1 Description Total RVUs Work RVUs

33207	Insertion of new or replacement of permanent pacemaker with transvenous electr ode(s); ventricular	14.09	7.80
33208	Insertion of new or replacement of permanent pacemaker with transvenous elect rode(s); atrial and ventricular	15.25	8.52
33212	Insertion of pacemaker pulse generator only; with existing single lead	9.55	5.01
33213	Insertion of pacemaker pulse generator only; with existing dual leads	10.00	5.28
33221	Insertion of pacemaker pulse generator only; with existing multiple leads	10.56	5.55
33228	Removal of permanent pacemaker pulse generator with replacement of pacemak er pulse generator; dual lead system	10.47	5.52
33230	Insertion of implantable defibrillator pulse generator only; with existing dual leads	11.05	6.07
33249	Insertion or replacement of permanent implantable defibrillator system, with trans venous lead(s), single or dual chamber	26.85	14.92

REMOV	AL PROCEDURES		
33233	Removal of permanent pacemaker pulse generator only	6.92	3.14
33235	Removal of transvenous pacemaker electrode(s); dual lead system	18.77	9.90
33241	Removal of implantable defibrillator pulse generator only	6.37	3.04
33244	Removal of single or dual chamber implantable defibrillator electrode(s); by trans venous extraction	25.44	13.74
REPOS	TIONING PROCEDURES		
33215	Repositioning of previously implanted transvenous pacemaker or implantable defi brillator (right atrial or rightventricular) electrode	9.17	4.92
33222	Relocation of skin pocket for pacemaker	10.18	4.85
33223	Relocation of skin pocket for implantable defibrillator	12.09	6.30
PROGR	AMMING/EVALUATION PROCEDURES		
	Programming device evaluation (in person) with iterative adjustment of the implantable device to test the function of		
93280	the device and select optimal permanent programmed values with analysis, revie w and report by a physician or other	2.35	0.77
	qualified health care professional; dual lead pacemaker system		
	Interrogation device evaluation (in person) with analysis, review and report by a p hysician or other qualified health		
93288	care professional, includes connection, recording and disconnection per patient e ncounter; single, dual, or multiple	1.23	0.43
	pacemaker system		
	Interrogation device evaluation (in person) with analysis, review and report by a p hysician or other qualified health care		
93289	professional, includes connection, recording and disconnection per patient encounter; single, dual, or multiple lead	1.36	0.75
	transvenous implantable defibrillator system, including analysis of heart rhythm de rived data elements		
	Programming device evaluation (in person) with iterative adjustment of the implantable device to test the function of		
93283	the device and select optimal permanent programmed values with analysis, revie w and report by a physician or other	2.91	1.15
	qualified health care professional; dual lead transvenous implantable defibrillator system		

One or more of these comparisons might be provided in claims submission to help determine appropriate reimbursement for these procedures. Each provider must determine the most appropriate reference code. These are examples only, not an exhaustive or definitive list. The medical record should include physician documentation to support the rationale for the code being referenced as comparable, such as service time and skill level, implant

approach, and other pertinent information that supports comparison to the code referenced for payment. Physicians must bill the Category III code for CCM, and not the referenced code. The Medicare contractor or commercial payer will likely ask for a copy of the record in order to make a payment decision.

Inpatient Hospital Procedure Reporting

The following ICD-10-CM (diagnosis) codes, ICD-10-PCS (procedure) codes, and DRG definitions are provided for commonly reported CCM procedures in the inpatient hospital setting.

ICD-10-CM Code3

POTENTIAL HEART FAILURE DIAGNOSIS CODES	СС	МСС
		1

150.10	Left ventricular failure, unspecified	x	
150.20	Unspecified systolic (congestive) heart failure	X	
150.21	Acute systolic (congestive) heart failure		х
150.22	Chronic systolic (congestive) heart failure	X	
150.23	Acute on chronic systolic (congestive) heart failure	X	
150.30	Unspecified diastolic (congestive) heart failure	X	
150.31	Acute diastolic (congestive) heart failure		X
150.32	Chronic diastolic (congestive) heart failure	X	
150.33	Acute on chronic diastolic (congestive) heart failure		X
150.40	Unspecified combined systolic (congestive and diastolic (congestive) he art failure	x	
150.41	Acute combined systolic (congestive) and diastolic (congestive) heart fa ilure		х
150.42	Chronic combined systolic (congestive) and diastolic (congestive) heart failure	х	
150.43	Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure		х
150.80	Other heart failure		
150.810	Right heart failure, unspecified		
150.811	Acute right heart failure		
150.812	Chronic right heart failure		
150.813	Acute on chronic right heart failure		
150.814	Right heart failure due to left heart failure		
150.82	Biventricular heart failure		
150.83	High output heart failure		
150.84	End stage heart failure		
150.89	Other heart failure		
150.90	Heart failure, unspecified		

ICD-10-PCS4

INSERTION/REPLACEMENT PROCEDURES

- 0JH60AZ Insertion of Contractility Modulation Device into Chest Subcutaneous Tissue and Fascia, Open Approach
- 0JH63AZ Insertion of Contractility Modulation Device into Chest Subcutaneous Tissue and Fascia,
 Percutaneous Approach
- 0JH80AZ Insertion of Contractility Modulation Device into Abdomen Subcutaneous Tissue and Fascia, Open

Approach

- 0JH83AZ Insertion of Contractility Modulation Device into Abdomen Subcutaneous Tissue and Fascia,
 Percutaneous Approach
- 02H63MZ Insertion of cardiac lead into right atrium, percutaneous approach (when specified as a lead for a contractility modulation device)
- 02HK3MZ Insertion of cardiac lead into right ventricle, percutaneous approach (when specified as a lead for a contractility modulation device)

Inpatient Hospital DRG Assignment

DIAGNOSIS RELATED GROUP (DRG)

MS-DRG	Description	2025 National Base Payme nt5	
275	Cardiac defibrillator implant with ca	\$49,290	
276	Cardiac defibrillator implants with M Neurostimulator	ICC or Carotid Sinus	\$43,204
277	Cardiac defibrillator implant without	MCC	\$32,446
HCPCS LEVEL	II DEVICE CROSSWALK		
Device Category	Device Description	Model Number	HCPCS C-Code6
IPG	OPTIMIZER® Smart	10-B411-3-XX	C1824
IPG	OPTIMIZER® Smart Mini	10-B501-3-XX	C1824
IPG	OPTIMIZER® Lite	10-B502-3-XX	C1824
Patient Charger	OPTIMIZER® Mini Charger Syste m	10-F202-3-XX	K1030 (used for replacemen ts only)
Patient Charger	Guardio Charger System	10-F311-3-XX	K1030 (used for replacemen ts only)
Patient Charger	Vesta Charger System	10-F301-3-XX	K1030 (used for replacemen

• Patient Charger Vesta Charger System (OPT Lite) 10-F302-3-XX K1030 (used for replacements only)

ts only)

- Lead Therapy Delivery Lead Various C1898
- Introducer Introducer/Sheath Various Various

DESCRIPTIONS

HCPCS LEVEL II CODES & DESCRIPTIONS

HCPCS Code	Device Description	Revenue Code
C1824	Generator, cardiac contractility modulation (implantable)	0278 - Other implants
C1898	Lead, pacemaker, other than transvenous VDD single pass	0275 – Pacemakers

K1030 External recharging system for battery (internal) for use with implanted cardiac contractility modulation generator, replacement only

Disclaimer

Coding, coverage and reimbursement related information provided by Impulse Dynamics is obtained from third party sources. This information is provided for the convenience of the health care provider only and does not constitute reimbursement, legal or compliance advice. Coding, coverage and reimbursement information is subject to frequent and unexpected change; therefore Impulse Dynamics recommends that users refer to the information sources listed to verify accuracy prior to acting on the information provided herein. Impulse Dynamics makes no representation or warranty regarding this information or its accuracy, completeness or applicability and assumes no responsibility for updating this information. Impulse Dynamics specifically disclaims liability or responsibility for the results or consequences of any actions taken in reliance on information in this document. Impulse Dynamics does not guarantee that use or reliance upon any of the codes listed in this document will result in any specified or guaranteed coverage level or reimbursement amount. Impulse Dynamics strongly encourages health care providers to submit accurate and appropriate claims for services and recommends that you consult directly with payers (e.g. the Centers for Medicare and Medicaid Services (CMS)), certified reimbursement coding professionals, other reimbursement experts, and/or legal counsel regarding all coding, coverage, and reimbursement issues.

Indications for use

- CCM therapy is indicated to improve 6-minute hall walk distance, quality of life and functional status of NYHA
 Class III heart failure patients who remain symptomatic despite guideline directed medical therapy, are not
 receiving CRT, and have an LVEF ranging from 25% to 45%.
- Optimizer® devices deliver non-excitatory CCM signals to the heart and have no pacemaker or ICD functions.

Contraindications:

Use of CCM is contraindicated in:

- 1. Patients with a mechanical tricuspid valve
- 2. Patients in whom vascular access for implantation of the leads cannot be obtained

References:

- 1. Current Procedural Terminology (CPT®) Professional Edition 2020. Copyright 1995-2020 American Medical Association. All rights reserved.
- 2. https://www.cms.gov/medicare/payment/prospective-payment-systems/hospital-outpatient/regulations-notices/cms-1786-fc
- 3. ICD-10-CM Expert for Physicians and Hospitals, 2020. AAPC.
- 4. https://www.cms.gov/medicare/coding-billing/icd-10-codes/2024-icd-10-pcs
- 5. https://www.cms.gov/medicare/payment/prospective-payment-systems/acute-inpatient-pps/fy-2024-ipps-final-rule-home-page
- 6. 2020 Alpha-Numeric HCPCS File.

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Documents / Resources



IMPULSE DYNAMICS Implantable Optimizer Smart System [pdf] User Guide 0408T, 0409T, 0410T, 0411T, 0412T, 0413T, 0414T, 0415T, Implantable Optimizer Smart System, Optimizer Smart System, System

References

- Business Applications | Microsoft Dynamics 365
- User Manual

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