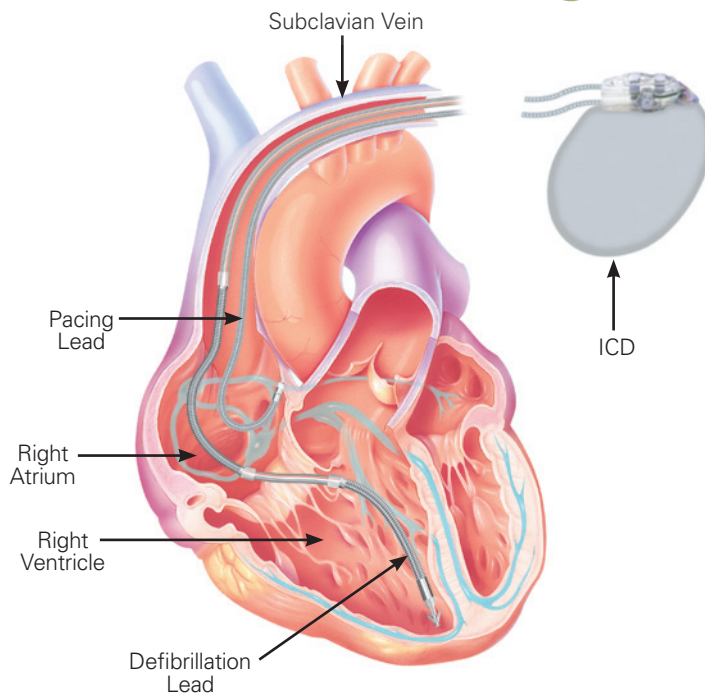


Implantable Cardioverter Defibrillator (ICD) Coding Overview

GuidePoint

Simplifying Reimbursement

Cardiac Rhythm Management and Electrophysiology



Updated January 2010

ICD implantation procedure

The implantation of an ICD system requires the use of an ICD pulse generator and a defibrillation electrode, or lead, placed in the right ventricle for a single chamber system. If a dual chamber ICD system is required, a defibrillation lead is placed in the right ventricle and a pacing electrode or lead is placed in the right atrium. The defibrillation lead delivers electrical shock therapy if a lethal arrhythmia is detected. In addition, the lead system monitors and delivers electrical pacing stimulation if required. The leads are inserted through the subclavian vein. In some cases, the cephalic or internal jugular vein may be used as an alternative to the subclavian vein.

A step-by-step description of a typical initial ICD system implantation procedure

1. The subclavian vein is accessed and a pulse generator pocket is formed.
2. Using **fluoroscopy (71090)**, a **defibrillation lead (33249)** is inserted into the right ventricle.
3. If implanting a dual chamber system, a **pacing lead** is also inserted into the right atrium under **fluoroscopy**.
4. **Lead measurement tests**, including pacing and sensing thresholds and lead impedances, are performed.
5. The **ICD pulse generator (included in 33249)** is connected to the lead(s).
6. Testing of **defibrillation thresholds (93641)**, including arrhythmia **induction**, is performed.
7. Additional **testing of the lead(s)** is completed.
8. The lead(s) and device are secured and the pulse generator pocket is closed.

Note: This document is for reference purposes only and does not replace physicians' medical documentation.

Commonly Billed Implantable Cardioverter Defibrillator (ICD) Procedures

Key

- Moderate sedation. (For these procedures, moderate [conscious] sedation is included and cannot be billed separately when provided by the same physician. See *AMA Current Procedural Terminology 2010* for specific guidelines.)

Initial single or dual chamber ICD system implant, with fluoroscopy and with defibrillator threshold testing at time of implant

Hospital Inpatient ICD-9-CM Codes ¹	Hospital Outpatient* CPT® Codes ²	Physician CPT® Codes ²
<p>37.94 Implantation or replacement of automatic cardioverter defibrillator, total system [AICD]</p> <p><i>Note: Device testing during procedure — omit code</i></p> <ul style="list-style-type: none"> • Implantation of defibrillator with leads (epicardial patches), formation of pocket (abdominal fascia) (subcutaneous), any transvenous leads, intraoperative procedures for evaluation of lead signals, and obtaining defibrillator threshold measurements • Techniques: lateral thoracotomy, medial sternotomy, subxiphoid procedure <p>Code also extracorporeal circulation, if performed (39.61)</p> <p>Code also any concomitant procedure [e.g., coronary bypass (36.10–36.19) or CCM, total system (17.51)]</p> <p>Excludes:</p> <ul style="list-style-type: none"> • Implantation of cardiac resynchronization defibrillator, total system [CRT-D] (00.51) 	<ul style="list-style-type: none"> • 33249 Insertion or repositioning of electrode lead(s) for single or dual chamber pacing cardioverter defibrillator and insertion of pulse generator • 93641 Electrophysiologic evaluation of single or dual chamber pacing cardioverter defibrillator leads including defibrillation threshold evaluation (induction of arrhythmia, evaluation of sensing and pacing for arrhythmia termination) at time of initial implantation or replacement; with testing of single or dual chamber pacing cardioverter defibrillator pulse generator 71090 Insertion pacemaker, fluoroscopy and radiography, radiological supervision and interpretation 	<ul style="list-style-type: none"> • 33249 Insertion or repositioning of electrode lead(s) for single or dual chamber pacing cardioverter defibrillator and insertion of pulse generator • 93641–26/51** Electrophysiologic evaluation of single or dual chamber pacing cardioverter defibrillator leads including defibrillation threshold evaluation (induction of arrhythmia, evaluation of sensing and pacing for arrhythmia termination) at time of initial implantation or replacement; with testing of single or dual chamber pacing cardioverter defibrillator pulse generator 71090–26** Insertion pacemaker, fluoroscopy and radiography, radiological supervision and interpretation

Replacement of single chamber ICD pulse generator with defibrillator threshold testing at time of implant with fluoroscopic visualization of leads

Hospital Inpatient ICD-9-CM Codes ¹	Hospital Outpatient* CPT® Codes ²	Physician CPT® Codes ²
<p>37.98 Replacement of automatic cardioverter defibrillator pulse generator only</p> <p><i>Note: Device testing during procedure — omit code</i></p> <p>Excludes:</p> <ul style="list-style-type: none"> • Replacement of cardiac resynchronization defibrillator, pulse generator device only [CRT-D] (00.54) 	<ul style="list-style-type: none"> • 33240 Insertion of single or dual chamber pacing cardioverter defibrillator pulse generator • 33241 Subcutaneous removal of single or dual chamber pacing cardioverter defibrillator pulse generator • 93641 Electrophysiologic evaluation of single or dual chamber pacing cardioverter defibrillator leads including defibrillation threshold evaluation (induction of arrhythmia, evaluation of sensing and pacing for arrhythmia termination) at time of initial implantation or replacement; with testing of single or dual chamber pacing cardioverter defibrillator pulse generator <p>71090 Insertion pacemaker, fluoroscopy and radiography, radiological supervision and interpretation</p>	<ul style="list-style-type: none"> • 33240 Insertion of single or dual chamber pacing cardioverter defibrillator pulse generator • 33241-51** Subcutaneous removal of single or dual chamber pacing cardioverter defibrillator pulse generator • 93641-26/51** Electrophysiologic evaluation of single or dual chamber pacing cardioverter defibrillator leads including defibrillation threshold evaluation (induction of arrhythmia, evaluation of sensing and pacing for arrhythmia termination) at time of initial implantation or replacement; with testing of single or dual chamber pacing cardioverter defibrillator pulse generator • 71090-26** Insertion pacemaker, fluoroscopy and radiography, radiological supervision and interpretation

• Moderate sedation

Single chamber ICD upgrade to dual chamber ICD with retention of ventricular ICD lead and insertion of new atrial pacing lead, with fluoroscopy and defibrillator threshold testing at the time of implant

Hospital Inpatient ICD-9-CM Codes ¹	Hospital Outpatient* CPT® Codes ²	Physician CPT® Codes ²
<p>37.94 Implantation or replacement of automatic cardioverter defibrillator, total system [AICD]</p> <p><i>Note: Device testing during procedure — omit code</i></p> <ul style="list-style-type: none"> • Implantation of defibrillator with leads (epicardial patches), formation of pocket (abdominal fascia) (subcutaneous), any transvenous leads, intraoperative procedures for evaluation of lead signals, and obtaining defibrillator threshold measurements • Techniques: lateral thoracotomy, medial sternotomy, subxiphoid procedure <p>Code also extracorporeal circulation, if performed (39.61)</p> <p>Code also any concomitant procedure [e.g., coronary bypass (36.10–36.19) or CCM, total system (17.51)]</p> <p>Excludes:</p> <ul style="list-style-type: none"> • Implantation of cardiac resynchronization defibrillator, total system [CRT-D] (00.51) 	<ul style="list-style-type: none"> • 33249 Insertion or repositioning of electrode lead(s) for single or dual chamber pacing cardioverter defibrillator and insertion of pulse generator • 33241 Subcutaneous removal of single or dual chamber pacing cardioverter defibrillator pulse generator <p>71090 Insertion pacemaker, fluoroscopy and radiography, radiological supervision and interpretation</p> <ul style="list-style-type: none"> • 93641 Electrophysiologic evaluation of single or dual chamber pacing cardioverter defibrillator leads including defibrillation threshold evaluation (induction of arrhythmia, evaluation of sensing and pacing for arrhythmia termination) at time of initial implantation or replacement; with testing of single or dual chamber pacing cardioverter defibrillator pulse generator 	<ul style="list-style-type: none"> • 33249 Insertion or repositioning of electrode lead(s) for single or dual chamber pacing cardioverter defibrillator and insertion of pulse generator • 33241–51** Subcutaneous removal of single or dual chamber pacing cardioverter defibrillator pulse generator <p>71090–26** Insertion pacemaker, fluoroscopy and radiography, radiological supervision and interpretation</p> <ul style="list-style-type: none"> • 93641–26/51** Electrophysiologic evaluation of single or dual chamber pacing cardioverter defibrillator leads including defibrillation threshold evaluation (induction of arrhythmia, evaluation of sensing and pacing for arrhythmia termination) at time of initial implantation or replacement; with testing of single or dual chamber pacing cardioverter defibrillator pulse generator

• Moderate sedation

Dual chamber pacemaker upgrade to dual chamber ICD, with capping of pacemaker leads and insertion of new right atrial and ventricular ICD leads, under fluoroscopy with defibrillator threshold testing at the time of implant

Hospital Inpatient ICD-9-CM Codes ¹	Hospital Outpatient* CPT® Codes ²	Physician CPT® Codes ²
<p>37.94 Implantation or replacement of automatic cardioverter defibrillator, total system [AICD]</p> <p><i>Note: Device testing during procedure — omit code</i></p> <ul style="list-style-type: none"> • Implantation of defibrillator with leads (epicardial patches), formation of pocket (abdominal fascia) (subcutaneous), any transvenous leads, intraoperative procedures for evaluation of lead signals, and obtaining defibrillator threshold measurements • Techniques: lateral thoracotomy, medial sternotomy, subxiphoid procedure <p>Code also extracorporeal circulation, if performed (39.61)</p> <p>Code also any concomitant procedure [e.g., coronary bypass (36.10–36.19) or CCM, total system (17.51)]</p> <p>Excludes:</p> <ul style="list-style-type: none"> • Implantation of cardiac resynchronization defibrillator, total system [CRT-D] (00.51) 	<ul style="list-style-type: none"> • 33249 Insertion or repositioning of electrode lead(s) for single or dual chamber pacing cardioverter defibrillator and insertion of pulse generator • 33233 Removal of permanent pacemaker pulse generator <p>71090 Insertion pacemaker, fluoroscopy and radiography, radiological supervision and interpretation</p> <ul style="list-style-type: none"> • 93641 Electrophysiologic evaluation of single or dual chamber pacing cardioverter defibrillator leads including defibrillation threshold evaluation (induction of arrhythmia, evaluation of sensing and pacing for arrhythmia termination) at time of initial implantation or replacement; with testing of single or dual chamber pacing cardioverter defibrillator pulse generator 	<ul style="list-style-type: none"> • 33249 Insertion or repositioning of electrode lead(s) for single or dual chamber pacing cardioverter defibrillator and insertion of pulse generator • 33233–51** Removal of permanent pacemaker pulse generator <p>71090–26** Insertion pacemaker, fluoroscopy and radiography, radiological supervision and interpretation</p> <ul style="list-style-type: none"> • 93641–26/51** Electrophysiologic evaluation of single or dual chamber pacing cardioverter defibrillator leads including defibrillation threshold evaluation (induction of arrhythmia, evaluation of sensing and pacing for arrhythmia termination) at time of initial implantation or replacement; with testing of single or dual chamber pacing cardioverter defibrillator pulse generator

• Moderate sedation

Replacement of single chamber cardioverter defibrillator lead, extraction of existing lead with fluoroscopic visualization of leads, with threshold testing of ICD system

Hospital Inpatient ICD-9-CM Codes ¹	Hospital Outpatient* CPT® Codes ²	Physician CPT® Codes ²
<p>37.97 Replacement of automatic cardioverter defibrillator lead(s) only</p> <p>Excludes:</p> <ul style="list-style-type: none"> • Replacement of epicardial lead [electrode] into epicardium (37.74) • Replacement of transvenous lead [electrode] into left ventricular coronary venous system (00.52) 	<ul style="list-style-type: none"> • 33216 Insertion of a single transvenous electrode, permanent pacemaker or cardioverter defibrillator • 33244 Removal of single or dual chamber pacing cardioverter defibrillator electrode(s); by transvenous extraction • 93641 Electrophysiologic evaluation of single or dual chamber pacing cardioverter defibrillator leads including defibrillation threshold evaluation (induction of arrhythmia, evaluation of sensing and pacing for arrhythmia termination) at time of initial implantation or replacement; with testing of single or dual chamber pacing cardioverter defibrillator pulse generator <p>71090 Insertion pacemaker, fluoroscopy and radiography, radiological supervision and interpretation</p>	<ul style="list-style-type: none"> • 33216 Insertion of a single transvenous electrode, permanent pacemaker or cardioverter defibrillator • 33244–51* Removal of single or dual chamber pacing cardioverter defibrillator electrode(s); by transvenous extraction • 93641–26/51** Electrophysiologic evaluation of single or dual chamber pacing cardioverter defibrillator leads including defibrillation threshold evaluation (induction of arrhythmia, evaluation of sensing and pacing for arrhythmia termination) at time of initial implantation or replacement; with testing of single or dual chamber pacing cardioverter defibrillator pulse generator • 71090–26** Insertion pacemaker, fluoroscopy and radiography, radiological supervision and interpretation

• Moderate sedation

Insertion of atrial lead, insertion of right ventricular lead, extraction of existing leads with defibrillator threshold testing of ICD system

Hospital Inpatient ICD-9-CM Codes ¹	Hospital Outpatient* CPT® Codes ²	Physician CPT® Codes ²
<p>37.97 Replacement of automatic cardioverter defibrillator lead(s) only</p> <p>Excludes:</p> <ul style="list-style-type: none"> • Replacement of epicardial lead [electrode] into epicardium (37.74) • Replacement of transvenous lead [electrode] into left ventricular coronary venous system (00.52) 	<ul style="list-style-type: none"> • 33217 Insertion of 2 transvenous electrodes, permanent pacemaker or cardioverter defibrillator • 33244 Removal of single or dual chamber pacing cardioverter defibrillator electrode(s); by transvenous extraction • 93641 Electrophysiologic evaluation of single or dual chamber pacing cardioverter defibrillator leads including defibrillation threshold evaluation (induction of arrhythmia, evaluation of sensing and pacing for arrhythmia termination) at time of initial implantation or replacement; with testing of single or dual chamber pacing cardioverter defibrillator pulse generator <p>71090 Insertion pacemaker, fluoroscopy and radiography, radiological supervision and interpretation</p>	<ul style="list-style-type: none"> • 33217 Insertion of 2 transvenous electrodes, permanent pacemaker or cardioverter defibrillator • 33244–51** Removal of single or dual chamber pacing cardioverter defibrillator electrode(s); by transvenous extraction • 93641–26/51** Electrophysiologic evaluation of single or dual chamber pacing cardioverter defibrillator leads including defibrillation threshold evaluation (induction of arrhythmia, evaluation of sensing and pacing for arrhythmia termination) at time of initial implantation or replacement; with testing of single or dual chamber pacing cardioverter defibrillator pulse generator • 71090–26** Insertion pacemaker, fluoroscopy and radiography, radiological supervision and interpretation

• Moderate sedation

Insertion of Sub-Q Array with defibrillation threshold testing with fluoroscopic visualization of leads

Hospital Inpatient ICD-9-CM Codes ¹	Hospital Outpatient* CPT® Codes ²	Physician CPT® Codes ²
<p>37.70 Initial insertion of lead [electrode], not otherwise specified</p> <p>Excludes:</p> <ul style="list-style-type: none"> • Insertion of temporary transvenous pacemaker system (37.78) • Replacement of atrial and/or ventricular lead(s) (37.76) 	<p>33999 Unlisted procedure, cardiac surgery</p> <p>OR HRS Coding Guide states some payers may accept the following code; please check with your local payer for further guidance.</p> <ul style="list-style-type: none"> • 33216 Insertion of a single transvenous electrode, permanent pacemaker or cardioverter defibrillator • 93641 Electrophysiologic evaluation of single or dual chamber pacing cardioverter defibrillator leads including defibrillation threshold evaluation (induction of arrhythmia, evaluation of sensing and pacing for arrhythmia termination) at time of initial implantation or replacement; with testing of single or dual chamber pacing cardioverter defibrillator pulse generator <p>71090 Insertion pacemaker, fluoroscopy and radiography, radiological supervision and interpretation</p>	<p>33999 Unlisted procedure, cardiac surgery</p> <p>OR HRS Coding Guide states some payers may accept the following code; please check with your local payer for further guidance.</p> <ul style="list-style-type: none"> • 33216 Insertion of a single transvenous electrode, permanent pacemaker or cardioverter defibrillator • 93641–26/51** Electrophysiologic evaluation of single or dual chamber pacing cardioverter defibrillator leads including defibrillation threshold evaluation (induction of arrhythmia, evaluation of sensing and pacing for arrhythmia termination) at time of initial implantation or replacement; with testing of single or dual chamber pacing cardioverter defibrillator pulse generator <p>71090–26** Insertion pacemaker, fluoroscopy and radiography, radiological supervision and interpretation</p>

• Moderate sedation

Single chamber ICD follow-up (in person)

Hospital Inpatient ICD-9-CM Codes ¹	Hospital Outpatient* CPT® Codes ²	Physician CPT® Codes ²
<p>89.49 Automatic implantable cardioverter defibrillator (AICD) check</p> <ul style="list-style-type: none"> • Bedside check of an AICD or cardiac resynchronization defibrillator [CRT-D] • Checking pacing thresholds of device • Interrogation only without arrhythmia induction <p>Excludes:</p> <ul style="list-style-type: none"> • Catheter based invasive electrophysiologic testing (37.26) • Non-invasive programmed electrical stimulation [NIPS] (arrhythmia induction) (37.20) 	<p>93289 (if applicable) Interrogation device evaluation (in person) with physician analysis, review and report, includes connection, recording and disconnection per patient encounter; single, dual, or multiple lead implantable cardioverter defibrillator system, including analysis of heart rhythm derived data elements</p> <p>OR</p> <p>93282 (if applicable) 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 physician analysis, review and report: single lead implantable cardioverter defibrillator system</p>	<p>93289 Interrogation device evaluation (in person) with physician analysis, review and report, includes connection, recording and disconnection per patient encounter; single, dual, or multiple lead implantable cardioverter defibrillator system, including analysis of heart rhythm derived data elements</p> <p>OR</p> <p>93282 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 physician analysis, review and report: single lead implantable cardioverter defibrillator system</p>

Dual chamber ICD follow-up (in person)

Hospital Inpatient ICD-9-CM Codes ¹	Hospital Outpatient* CPT® Codes ²	Physician CPT® Codes ²
<p>89.49 Automatic implantable cardioverter defibrillator (AICD) check</p> <ul style="list-style-type: none"> • Bedside check of an AICD or cardiac resynchronization defibrillator [CRT-D] • Checking pacing thresholds of device • Interrogation only without arrhythmia induction <p>Excludes:</p> <ul style="list-style-type: none"> • Catheter based invasive electrophysiologic testing (37.26) • Non-invasive programmed electrical stimulation [NIPS] (arrhythmia induction) (37.20) 	<p>93289 (if applicable) Interrogation device evaluation (in person) with physician analysis, review and report, includes connection, recording and disconnection per patient encounter; single, dual, or multiple lead implantable cardioverter defibrillator system, including analysis of heart rhythm derived data elements</p> <p>OR</p> <p>93283 (if applicable) 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 physician analysis, review and report: dual lead implantable cardioverter defibrillator system</p>	<p>93289 Interrogation device evaluation (in person) with physician analysis, review and report, includes connection, recording and disconnection per patient encounter; single, dual, or multiple lead implantable cardioverter defibrillator system, including analysis of heart rhythm derived data elements</p> <p>OR</p> <p>93283 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 physician analysis, review and report: dual lead implantable cardioverter defibrillator system</p>

Single , dual , or multi chamber ICD follow-up (remote)

Hospital Inpatient ICD-9-CM Codes ¹	Hospital Outpatient* CPT® Codes ²	Physician CPT® Codes ²
<p><i>Not Applicable; inappropriate site of service for this scenario.</i></p>	<p>93295 (if applicable) Interrogation device evaluation(s) (remote), up to 90 days; single, dual, or multiple lead implantable cardioverter defibrillator system with interim physician analysis, review(s), and report(s)</p> <p>AND</p> <p>93296 Interrogation device evaluation(s) (remote), up to 90 days; single, dual, or multiple lead pacemaker system or implantable cardioverter defibrillator system, remote data acquisition(s), receipt of transmissions and technician review, technical support and distribution of results</p>	<p>93295 Interrogation device evaluation(s) (remote), up to 90 days; single, dual, or multiple lead implantable cardioverter defibrillator system with interim physician analysis, review(s), and report(s)</p> <p>AND</p> <p>93296 Interrogation device evaluation(s) (remote), up to 90 days; single, dual, or multiple lead pacemaker system or implantable cardioverter defibrillator system, remote data acquisition(s), receipt of transmissions and technician review, technical support and distribution of results</p>

Single, dual, or multi chamber ICD follow-up (remote) with analysis of Implantable Cardiovascular Monitor (ICM)

Hospital Inpatient ICD-9-CM Codes ¹	Hospital Outpatient* CPT® Codes ²	Physician CPT® Codes ²
<p><i>Not Applicable; inappropriate site of service for this scenario.</i></p>	<p>93295 (if applicable) Interrogation device evaluation(s) (remote), up to 90 days; single, dual, or multiple lead implantable cardioverter defibrillator system with interim physician analysis, review(s), and report(s)</p> <p>AND 93296 Interrogation device evaluation(s) (remote), up to 90 days; single, dual, or multiple lead pacemaker system or implantable cardioverter defibrillator system, remote data acquisition(s), receipt of transmissions and technician review, technical support and distribution of results</p> <p>AND 93297 (if applicable) Interrogation device evaluation(s) (remote) up to 30 days; implantable cardiovascular monitor system, including analysis of 1 or more recorded physiologic cardiovascular data elements from all internal and external sensors, physician analysis, review(s) and report(s)</p>	<p>93295 Interrogation device evaluation(s) (remote), up to 90 days; single, dual, or multiple lead implantable cardioverter defibrillator system with interim physician analysis, review(s), and report(s)</p> <p>AND 93296 Interrogation device evaluation(s) (remote), up to 90 days; single, dual, or multiple lead pacemaker system or implantable cardioverter defibrillator system, remote data acquisition(s), receipt of transmissions and technician review, technical support and distribution of results</p> <p>AND 93297 Interrogation device evaluation(s) (remote) up to 30 days; implantable cardiovascular monitor system, including analysis of 1 or more recorded physiologic cardiovascular data elements from all internal and external sensors, physician analysis, review(s) and report(s)</p>

- ¹ American Medical Association. 2010 ICD-9-CM For Hospitals, Volumes 1, 2 and 3. Professional Edition. Chicago, IL: 2009.
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- * As of January 1, 2005, the Centers for Medicare and Medicaid Services (CMS) requires hospitals to report all device category codes (C-codes) on Medicare outpatient claims when medical devices are used in conjunction with procedure(s) billed. If C-codes are not identified on submitted Medicare outpatient claims, the claim(s) will be returned to the hospital for correction. Find C-codes for CRM devices at <http://www.bostonscientific.com/crm/reimbursement>. Also find C-codes for CRM devices and related accessories (e.g., introducers, catheters, sheaths) at http://www.cms.hhs.gov/HospitalOutpatientPPS/Downloads/DeviceCats_OPSPUpdate.pdf.
- ** Modifiers 26 (professional component) and 51 (multiple procedures) are for physician billing only. See the *AMA Current Procedural Terminology 2010* for complete descriptions. Always verify appropriate usage with payers.

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