

GuidePoint

Simplifying Reimbursement

Cardiac Rhythm Management and Electrophysiology

Updated January 2010

Key

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

Single chamber pacemaker follow-up (in person)

Hospital Inpatient ICD-9-CM Codes ¹	Hospital Outpatient* CPT® Codes ²	Physician CPT® Codes ²
<p>89.45 Artificial pacemaker rate check</p> <ul style="list-style-type: none"> • Artificial pacemaker function check NOS • Bedside device check of pacemaker or cardiac resynchronization pacemaker [CRT-P] • 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>93288 Interrogation device evaluation (in person) with physician analysis, review and report, includes connection, recording and disconnection per patient encounter; single, dual, or multiple lead pacemaker system</p> <p>OR 93279 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 pacemaker system</p>	<p>93288 Interrogation device evaluation (in person) with physician analysis, review and report, includes connection, recording and disconnection per patient encounter; single, dual, or multiple lead pacemaker system</p> <p>OR 93279 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 pacemaker system</p>

Dual chamber pacemaker follow-up (in person)

Hospital Inpatient ICD-9-CM Codes ¹	Hospital Outpatient* CPT® Codes ²	Physician CPT® Codes ²
<p>89.45 Artificial pacemaker rate check</p> <ul style="list-style-type: none"> Artificial pacemaker function check NOS Bedside device check of pacemaker or cardiac resynchronization pacemaker [CRT-P] 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>93288 Interrogation device evaluation (in person) with physician analysis, review and report, includes connection, recording and disconnection per patient encounter; single, dual, or multiple lead pacemaker system</p> <p>OR 93280 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 pacemaker system</p>	<p>93288 Interrogation device evaluation (in person) with physician analysis, review and report, includes connection, recording and disconnection per patient encounter; single, dual, or multiple lead pacemaker system</p> <p>OR 93280 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 pacemaker system</p>

Dual chamber pacemaker follow-up (remote)

Hospital Inpatient ICD-9-CM Codes ¹	Hospital Outpatient* CPT® Codes ²	Physician CPT® Codes ²
<p>Not Applicable; inappropriate site of service for this scenario.</p>	<p>93294 (if applicable) Interrogation device evaluation(s) (remote), up to 90 days; single, dual, or multiple lead pacemaker system with interim physician analysis, review(s) and report(s)</p> <p>AND (if applicable) 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>93294 Interrogation device evaluation(s) (remote), up to 90 days; single, dual, or multiple lead pacemaker system with interim physician analysis, review(s) and report(s)</p> <p>AND (if applicable) 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 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 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 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>	<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 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 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 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>	<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 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>

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>

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>Not Applicable; inappropriate site of service for this scenario.</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 (if applicable) 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>	<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>

CRT-P follow-up (in person)

Hospital Inpatient ICD-9-CM Codes ¹	Hospital Outpatient* CPT® Codes ²	Physician CPT® Codes ²
<p>89.45 Artificial pacemaker rate check</p> <ul style="list-style-type: none"> Artificial pacemaker function check NOS Bedside device check of pacemaker or cardiac resynchronization pacemaker [CRT-P] 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>93288 Interrogation device evaluation (in person) with physician analysis, review and report, includes connection, recording and disconnection per patient encounter; single, dual, or multiple lead pacemaker system</p> <p>OR</p> <p>93281 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; multiple lead pacemaker system</p>	<p>93288-26** Interrogation device evaluation (in person) with physician analysis, review and report, includes connection, recording and disconnection per patient encounter; single, dual, or multiple lead pacemaker system</p> <p>OR</p> <p>93281 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; multiple lead pacemaker system</p>

CRT-P follow-up (remote)

Hospital Inpatient ICD-9-CM Codes ¹	Hospital Outpatient* CPT® Codes ²	Physician CPT® Codes ²
<p>Not Applicable; inappropriate site of service for this scenario.</p>	<p>93294 (if applicable) Interrogation device evaluation(s) (remote), up to 90 days; single, dual, or multiple lead pacemaker system with interim physician analysis, review(s) and reports(s)</p> <p>AND (if applicable)</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>93294 Interrogation device evaluation(s) (remote), up to 90 days; single, dual, or multiple lead pacemaker system with interim physician analysis, review(s) and reports(s)</p> <p>AND (if applicable)</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>

CRT-P follow-up (remote) with analysis of Implantable Cardiovascular Monitor (ICM) data

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>93294 (if applicable) Interrogation device evaluation(s) (remote), up to 90 days; single, dual, or multiple lead pacemaker system with interim physician analysis, review(s) and reports(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>AND</p> <p>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>	<p>93294 Interrogation device evaluation(s) (remote), up to 90 days; single, dual, or multiple lead pacemaker system with interim physician analysis, review(s) and reports(s)</p> <p>AND (if applicable)</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>AND</p> <p>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>

CRT-D 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 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>93284 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; multiple 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>93284 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; multiple lead implantable cardioverter defibrillator system</p>

CRT-D 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 (if applicable) 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 (if applicable) 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>

CRT-D follow-up (remote) with analysis of Implantable Cardiovascular Monitor (ICM) data

Hospital Inpatient ICD-9-CM Codes ¹	Hospital Outpatient* CPT® Codes ²	Physician CPT® Codes ²
<p>Not Applicable; inappropriate site of service for this scenario.</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 (if applicable)</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>AND</p> <p>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 (if applicable)</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>AND</p> <p>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>

Remote 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>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> <p>AND</p> <p>93299 Interrogation device evaluation(s), (remote) up to 30 days; implantable cardiovascular monitor system or implantable loop recorder system, remote data acquisition(s), receipt of transmissions and technician review, technical support and distribution of results</p>	<p>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> <p>AND</p> <p>93299 Interrogation device evaluation(s), (remote) up to 30 days; implantable cardiovascular monitor system or implantable loop recorder system, remote data acquisition(s), receipt of transmissions and technician review, technical support and distribution of results</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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Payer policies will vary and should be verified prior to treatment for limitations on diagnosis, coding, or site of service requirements. The coding options listed within this guide are commonly used codes and are not intended to be an all-inclusive list. We recommend consulting your relevant manuals for appropriate coding options.

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Delivering what's next.™

Cardiac Rhythm Management

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