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## Commonly Billed Cardiac Device Monitoring Procedures

Updated: June 2009

Single-chamber pacemaker follow-up (in person)		
Hospital Inpatient ICD-9-CM Codes <sup>1</sup>	Hospital Outpatient* CPT® Codes <sup>2,3</sup>	Physician* CPT® Codes <sup>2,3</sup>
<p><b>89.45 Artificial pacemaker rate check</b></p> <ul style="list-style-type: none"> <li>Artificial pacemaker function check NOS</li> <li>Bedside device check of pacemaker or cardiac resynchronization pacemaker [CRT-P]</li> <li>Interrogation only without arrhythmia induction</li> </ul> <p><b>Excludes:</b></p> <ul style="list-style-type: none"> <li>Catheter based invasive electrophysiologic testing (37.26)</li> <li>Non-invasive programmed electrical stimulation [NIPS] (arrhythmia induction) (37.20)</li> </ul>	<p><b>93288</b> 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><b>OR</b> <b>93279</b> Programming device evaluation 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><b>93288</b> 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><b>OR</b> <b>93279</b> Programming device evaluation 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)

<b>Hospital Inpatient</b> ICD-9-CM Codes <sup>1</sup>	<b>Hospital Outpatient*</b> CPT® Codes <sup>2,3</sup>	<b>Physician*</b> CPT® Codes <sup>2,3</sup>
<p><b>89.45 Artificial pacemaker rate check</b></p> <ul style="list-style-type: none"> <li>Artificial pacemaker function check NOS</li> <li>Bedside device check of pacemaker or cardiac resynchronization pacemaker [CRT-P]</li> <li>Interrogation only without arrhythmia induction</li> </ul> <p><b>Excludes:</b></p> <ul style="list-style-type: none"> <li>Catheter based invasive electrophysiologic testing (37.26)</li> <li>Non-invasive programmed electrical stimulation [NIPS] (arrhythmia induction) (37.20)</li> </ul>	<p><b>93288</b></p> <p>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><b>OR</b></p> <p><b>93280</b></p> <p>Programming device evaluation 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><b>93288</b></p> <p>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><b>OR</b></p> <p><b>93280</b></p> <p>Programming device evaluation 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 interrogation (remote)

<b>Hospital Inpatient</b> ICD-9-CM Codes <sup>1</sup>	<b>Hospital Outpatient*</b> CPT® Codes <sup>2,3</sup>	<b>Physician*</b> CPT® Codes <sup>2,3</sup>
<p><b>Not Applicable; inappropriate site of service for this scenario.</b></p>	<p><b>93294</b>                      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><b>AND (if applicable)</b>  <b>93296</b>                      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><b>93294</b>                      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><b>AND (if applicable)</b>  <b>93296</b>                      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)

<b>Hospital Inpatient</b> ICD-9-CM Codes <sup>1</sup>	<b>Hospital Outpatient*</b> CPT® Codes <sup>2,3</sup>	<b>Physician*</b> CPT® Codes <sup>2,3</sup>
<p><b>89.49 Automatic implantable cardioverter defibrillator (AICD) check</b></p> <ul style="list-style-type: none"> <li>• Bedside check of an AICD or cardiac resynchronization defibrillator [CRT-D]</li> <li>• Checking pacing thresholds of device</li> <li>• Interrogation only without arrhythmia induction</li> </ul> <p><b>Excludes:</b></p> <ul style="list-style-type: none"> <li>• Catheter based invasive electrophysiologic testing (37.26)</li> <li>• Non-invasive programmed electrical stimulation [NIPS] (arrhythmia induction) (37.20)</li> </ul>	<p><b>93289</b>                      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><b>OR</b>  <b>93282</b>                      Programming device evaluation 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><b>93289</b>                      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><b>OR</b>  <b>93282</b>                      Programming device evaluation 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)

<b>Hospital Inpatient</b> ICD-9-CM Codes <sup>1</sup>	<b>Hospital Outpatient*</b> CPT® Codes <sup>2,3</sup>	<b>Physician*</b> CPT® Codes <sup>2,3</sup>
<p><b>89.49 Automatic implantable cardioverter defibrillator (AICD) check</b></p> <ul style="list-style-type: none"> <li>• Bedside check of an AICD or cardiac resynchronization defibrillator [CRT-D]</li> <li>• Checking pacing thresholds of device</li> <li>• Interrogation only without arrhythmia induction</li> </ul> <p><b>Excludes:</b></p> <ul style="list-style-type: none"> <li>• Catheter based invasive electrophysiologic testing (37.26)</li> <li>• Non-invasive programmed electrical stimulation [NIPS] (arrhythmia induction) (37.20)</li> </ul>	<p><b>93289</b>                      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><b>OR</b></p> <p><b>93283</b>                      Programming device evaluation 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><b>93289</b>                      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><b>OR</b></p> <p><b>93283</b>                      Programming device evaluation 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 interrogation (remote)

<b>Hospital Inpatient</b> ICD-9-CM Codes <sup>1</sup>	<b>Hospital Outpatient*</b> CPT® Codes <sup>2,3</sup>	<b>Physician*</b> CPT® Codes <sup>2,3</sup>
<p><b>Not Applicable; inappropriate site of service for this scenario.</b></p>	<p><b>93295</b>                      Interrogation device evaluation (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><b>AND (if applicable)</b></p> <p><b>93296</b>                      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><b>93295</b>                      Interrogation device evaluation (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><b>AND (if applicable)</b></p> <p><b>93296</b>                      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 interrogation (remote) with analysis of Implantable Cardiovascular Monitor (ICM)

<b>Hospital Inpatient</b> ICD-9-CM Codes <sup>1</sup>	<b>Hospital Outpatient*</b> CPT® Codes <sup>2,3</sup>	<b>Physician*</b> CPT® Codes <sup>2,3</sup>
<p><b>Not Applicable; inappropriate site of service for this scenario.</b></p>	<p><b>93295</b>                      Interrogation device evaluation (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><b>AND (if applicable)</b></p> <p><b>93296</b>                      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><b>AND</b></p> <p><b>93297</b>                      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><b>93295</b>                      Interrogation device evaluation (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><b>AND (if applicable)</b></p> <p><b>93296</b>                      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><b>AND</b></p> <p><b>93297</b>                      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)

<b>Hospital Inpatient</b> ICD-9-CM Codes <sup>1</sup>	<b>Hospital Outpatient*</b> CPT® Codes <sup>2,3</sup>	<b>Physician*</b> CPT® Codes <sup>2,3</sup>
<p><b>89.45 Artificial pacemaker rate check</b></p> <ul style="list-style-type: none"> <li>Artificial pacemaker function check NOS</li> <li>Bedside device check of pacemaker or cardiac resynchronization pacemaker [CRT-P]</li> <li>Interrogation only without arrhythmia induction</li> </ul> <p><b>Excludes:</b></p> <ul style="list-style-type: none"> <li>Catheter based invasive electrophysiologic testing (37.26)</li> <li>Non-invasive programmed electrical stimulation [NIPS] (arrhythmia induction) (37.20)</li> </ul>	<p><b>93281</b>                      Programming device evaluation 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><b>OR</b></p> <p><b>93288</b>                      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><b>93281</b>                      Programming device evaluation 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><b>OR</b></p> <p><b>93288</b>                      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>

## CRT-P interrogation (remote)

<b>Hospital Inpatient</b> ICD-9-CM Codes <sup>1</sup>	<b>Hospital Outpatient*</b> CPT® Codes <sup>2,3</sup>	<b>Physician*</b> CPT® Codes <sup>2,3</sup>
<p><b>Not Applicable; inappropriate site of service for this scenario.</b></p>	<p><b>93294</b>                      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><b>AND (if applicable)</b></p> <p><b>93296</b>                      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><b>93294</b>                      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><b>AND (if applicable)</b></p> <p><b>93296</b>                      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 interrogation (remote) with analysis of Implantable Cardiovascular Monitor (ICM) data**

<b>Hospital Inpatient</b> ICD-9-CM Codes <sup>1</sup>	<b>Hospital Outpatient*</b> CPT® Codes <sup>2,3</sup>	<b>Physician*</b> CPT® Codes <sup>2,3</sup>
<p><b><i>Not Applicable; inappropriate site of service for this scenario.</i></b></p>	<p><b>93294</b>                      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><b>AND (if applicable)</b></p> <p><b>93296</b>                      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><b>AND</b></p> <p><b>93297</b>                      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><b>93294</b>                      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><b>AND (if applicable)</b></p> <p><b>93296</b>                      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><b>AND</b></p> <p><b>93297</b>                      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)

<b>Hospital Inpatient</b> ICD-9-CM Codes <sup>1</sup>	<b>Hospital Outpatient*</b> CPT® Codes <sup>2,3</sup>	<b>Physician*</b> CPT® Codes <sup>2,3</sup>
<p><b>89.49 Automatic implantable cardioverter defibrillator (AICD) check</b></p> <ul style="list-style-type: none"> <li>• Bedside check of an AICD or cardiac resynchronization defibrillator [CRT-D]</li> <li>• Checking pacing thresholds of device</li> <li>• Interrogation only without arrhythmia induction</li> </ul> <p><b>Excludes:</b></p> <ul style="list-style-type: none"> <li>• Catheter based invasive electrophysiologic testing (37.26)</li> <li>• Non-invasive programmed electrical stimulation [NIPS] (arrhythmia induction) (37.20)</li> </ul>	<p><b>93289</b>                      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><b>OR</b>  <b>93284</b>                      Programming device evaluation 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><b>93289</b>                      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><b>OR</b>  <b>93284</b>                      Programming device evaluation 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 interrogation (remote)

<b>Hospital Inpatient</b> ICD-9-CM Codes <sup>1</sup>	<b>Hospital Outpatient*</b> CPT® Codes <sup>2,3</sup>	<b>Physician*</b> CPT® Codes <sup>2,3</sup>
<p><b><i>Not Applicable; inappropriate site of service for this scenario.</i></b></p>	<p><b>93295</b>                      Interrogation device evaluation (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><b>AND (if applicable)</b>  <b>93296</b>                      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><b>93295</b>                      Interrogation device evaluation (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><b>AND (if applicable)</b>  <b>93296</b>                      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 interrogation (remote) with analysis of Implantable Cardiovascular Monitor (ICM) data**

<p><b>Hospital Inpatient</b> ICD-9-CM Codes<sup>1</sup></p>	<p><b>Hospital Outpatient*</b> CPT® Codes<sup>2,3</sup></p>	<p><b>Physician*</b> CPT® Codes<sup>2,3</sup></p>
<p><b><i>Not Applicable; inappropriate site of service for this scenario.</i></b></p>	<p><b>93295</b> Interrogation device evaluation (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><b>AND (if applicable)</b> <b>93296</b> 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><b>AND</b> <b>93297</b> 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><b>93295</b> Interrogation device evaluation (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><b>AND (if applicable)</b> <b>93296</b> 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><b>AND</b> <b>93297</b> 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>

<sup>1</sup> Ingenix. Updatable 2009 ICD-9-CM Expert for Hospitals, Volumes 1, 2 and 3. 6th Revision. Salt Lake City, UT: 2008

<sup>2</sup> Heart Rhythm Society. CPT Coding Guide for Heart Rhythm Procedures and Services, 2008. Washington D.C.: 2008.

<sup>3</sup> American Medical Association. Current Procedural Terminology (CPT) 2009. Professional Edition. Chicago, IL: 2008. Current Procedural Terminology (CPT) is copyright 2008 American Medical Association (AMA). All Rights Reserved. No fee schedules, basic units, relative values, or related listings are included in CPT. The AMA assumes no liability for the data contained herein. Applicable FARS/DFARS restrictions apply to government use. CPT is a registered trademark of the American Medical Association.

\* 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/transmittals/downloads/A03076.pdf> and [http://www.cms.hhs.gov/HospitalOutpatientPPS/04\\_passthrough\\_payment.asp](http://www.cms.hhs.gov/HospitalOutpatientPPS/04_passthrough_payment.asp).

\*\* Modifiers 26 (professional component) and 51 (multiple procedures) are for physician billing only. See the *AMA Current Procedural Terminology 2009* for complete descriptions. Historically, third-party payers have used –51 modifier in various ways that may affect payment. Always verify appropriate usage with payers.

**Note:** *The CPT coding scenarios in this document are from the Heart Rhythm Society's (HRS) CPT coding guide. The ICD-9-CM scenarios are not from the HRS coding guide. However, they were formulated using 2009 ICD-9-CM terminology and following Medicare coding guidelines.*

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