

# Overview

## Cardiac Device Monitoring Codes



GuidePoint is simplifying reimbursement.

## Cardiac Rhythm Management Reimbursement Update

### Important Reimbursement Note

Payer policies will vary and should be verified prior to treatment for limitations on diagnosis, coding, or site of service requirements. Medicare does not preauthorize services, however, coverage policies and criteria may be found on contractor websites or by contacting your local Medicare contractor. 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 2009 ICD-9-CM and AMA CPT manuals for appropriate coding options. When performing multiple procedures, review current correct coding guidelines carefully. Services that are considered a component of another procedure cannot always be coded and billed separately. Medicare's Correct Coding Initiative is reviewed and updated several times a year. Commercial (non-Medicare) payer policies vary and should be carefully reviewed.

### ICD-9-CM Diagnosis Codes

ICD-9-CM diagnosis coding varies based on the patient's medical condition. Physicians must document patient diagnoses and procedures thoroughly and accurately as it is ultimately the provider's responsibility to determine and submit appropriate codes. Proper coding of clinical procedures and diagnoses are dependent on the information documented in the patient's medical record without consideration of the adequacy of the reimbursement levels assigned by payers to specific codes. Coding conventions typically dictate that a patient's diagnosis and treatment be coded with the highest level of specificity possible based on the patient's medical record. Providers are encouraged to contact their Medicare contractors or third-party payers for specific questions pertaining to coding, coverage, and/or payment.

### Overview of Changes

- 1) There are some codes that have changed from last year for work that was already billable in the past. For example, there are now specific codes and payment rates for in-person device interrogations and specific codes and payment rates for remote device interrogations.
- 2) There are also new codes for work that was not billable in the past. For example, peri-procedural device evaluation code which can be submitted for turning devices off/on prior to and post surgical procedures. Another new code is the Implantable Cardiovascular Monitor (ICM) code. This code can be submitted by physicians monitoring the cardiac health status of their patient. An ICM is defined as an implantable cardiovascular device that collects data over time from internal sensors (such as respiratory rate<sup>1</sup>, right ventricular pressure, left atrial pressure or an index of lung water) and/or external sensors (such as blood pressure or body weight<sup>2</sup>).
- 3) Also be aware that modifiers for technical and professional components of a procedure have been replaced in some cases by individual codes for the professional and technical components.
- 4) Please note that some code definitions now include frequency guidelines for billing.

For more information on new cardiac device monitoring codes, visit our website, <http://www.bostonscientific.com/crm/reimbursement> or contact the Boston Scientific Reimbursement Customer Support Line at 1.800.CARDIAC (277.3422) to request the new cardiac device monitoring codes FAQ and quick reference guide.

## CPT Codes<sup>8</sup>

### (Physicians)

This section contains CPT codes for **commonly billed** in-office monitoring of implanted cardiac devices.

**Note:** In certain circumstances, one or more modifiers can be attached to the original CPT code if substantiated with medical documentation. Consult your 2009 AMA CPT book for a complete list of modifiers including descriptions and instructions.

### ***CPT Implanted Cardiac Device Definitions***

*Device, single lead:* a pacemaker or implantable cardioverter-defibrillator with pacing and sensing function in only one chamber of the heart.

*Device, dual lead:* a pacemaker or implantable cardioverter-defibrillator with pacing and sensing function in only two chambers of the heart.

*Device, multiple lead:* a pacemaker or implantable cardioverter-defibrillator with pacing and sensing function in three or more chambers of the heart.

INTERROGATION AND PROGRAMMING CODES		
SINGLE LEAD DEVICE	PACEMAKER	ICD
INTERROGATION*	93288	93289
PROGRAMMING DEVICE EVALUATION	93279	93282
DUAL LEAD DEVICE		
INTERROGATION*	93288	93289
PROGRAMMING DEVICE EVALUATION	93280	93283
MULTIPLE LEAD DEVICE		
INTERROGATION	93288	93289
PROGRAMMING DEVICE EVALUATION	93281	93284

\*If patient is being remotely monitored, report only remote services.

### ***Pacemaker – Programming Device Evaluation Definition***

*Programming device evaluation:* a procedure performed for patients with a pacemaker, implantable cardioverter-defibrillator, or implantable loop recorder. All device functions, including the battery, programmable settings and lead(s), when present, are evaluated. To assess capture thresholds, iterative adjustments (eg, progressive changes in pacing output of a pacing lead) of the programmable parameters are conducted. The iterative adjustments provide information that permits the operator to assess and select the most appropriate final program parameters to provide for consistent delivery of the appropriate therapy and to verify the function of the device. The final program parameters may or may not change after evaluation.

The programming device evaluation includes all of the components of the interrogation device evaluation (remote) or the interrogation device evaluation (in person), and it includes the selection of patient specific programmed parameters depending on the type of device.

*Required Components:* Programmed parameters, lead(s), battery, capture and sensing function and heart rhythm. Often, but not always, the sensor rate response, lower and upper heart rates, AV intervals, pacing voltage and pulse duration, sensing value, and diagnostics will be adjusted during a programming evaluation.

### **Pacemaker – Programming Device Evaluation**

**93279** 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

(Do not report 93279 in conjunction with 93286, 93288)

**93280** 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

(Do not report 93280 in conjunction with 93286, 93288)

**93281** 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

(Do not report 93281 in conjunction with 93286, 93288)

### **Pacemaker – In Person Interrogation Device Evaluation**

*Required Components:* Programmed parameters, lead(s), battery, capture and sensing function and heart rhythm.

**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

(Do not report 93288 in conjunction with 93279-93281, 93286, 93294, 93296)

### **Pacemaker – Remote Interrogation Device Evaluation**

*Note:* In certain circumstances, one or more modifiers can be attached to the original CPT code if substantiated with medical documentation. Consult your 2009 AMA CPT book for a complete list of modifiers including descriptions and instructions.

**93294** Interrogation device evaluation (remote) up to 90 days; single, dual, or multiple lead pacemaker system with interim physician analysis, review(s) and report(s)

(Do not report 93294 in conjunction with 93288, 93293)

(Report 93294 only once per 90 days)

**93296** Interrogation device evaluation(s) (remote), up to 90 days; single, dual or multiple lead implantable cardioverter defibrillator system, remote data acquisitions(s), receipt of transmissions and technician review, technical support and distribution of results

(Do not report 93296 in conjunction with 93288, 93289, 93299)

(Report 93296 only once per 90 days)

### **Transtelephonic Monitoring (TTM)**

**93293** Transtelephonic rhythm strip pacemaker evaluation(s) single, dual, or multiple lead pacemaker system, includes recording with and without magnet application with physician analysis, review and report(s), up to 90 days

## **Pacemaker – Peri Procedural Device Evaluation**

**93286** Peri-procedural device evaluation and programming of device system parameters before or after a surgery, procedure, or test with physician analysis, review and report; single, dual, or multiple lead pacemaker system

### **Implantable Cardioverter-Defibrillator – Programming Device Evaluation Definition**

*Programming device evaluation:* a procedure performed for patients with a pacemaker, implantable cardioverter-defibrillator, or implantable loop recorder. All device functions, including the battery, programmable settings and lead(s), when present, are evaluated. To assess capture thresholds, iterative adjustments (eg, progressive changes in pacing output of a pacing lead) of the programmable parameters are conducted. The iterative adjustments provide information that permits the operator to assess and select the most appropriate final program parameters to provide for consistent delivery of the appropriate therapy and to verify the function of the device. The final program parameters may or may not change after evaluation.

The programming device evaluation includes all of the components of the interrogation device evaluation (remote) or the interrogation device evaluation (in person), and it includes the selection of patient specific programmed parameters depending on the type of device.

*Required Components:* Programmed parameters, lead(s), battery, capture and sensing function and heart rhythm. Often, but not always, the sensor rate response, lower and upper heart rates, AV intervals, pacing voltage and pulse duration, sensing value, and diagnostics will be adjusted during a programming evaluation. In addition, ventricular tachycardia detection and therapies are sometimes altered depending on the interrogated data, patient’s rhythm, symptoms, and condition.

### **Implantable Cardioverter-Defibrillator – Programming Device Evaluation**

**93282** 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  
(Do not report 93282 in conjunction with 93287, 93289, 93745)

**93283** 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  
(Do not report 93283 in conjunction with 93287, 93289)

**93284** 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  
(Do not report 93284 in conjunction with 93287, 93289)

### **Implantable Cardioverter-Defibrillator – In Person Interrogation Device Evaluation**

*Required Components:* Programmed parameters, lead(s), battery, capture and sensing function, presence or absence of therapy for ventricular tachyarrhythmias and underlying heart rhythm.

**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

(For monitoring physiologic cardiovascular data elements derived from an ICD, use 93290)

### **Implantable Cardioverter-Defibrillator – Remote Interrogation Device Evaluation**

**Note:** *In certain circumstances, one or more modifiers can be attached to the original CPT code if substantiated with medical documentation. Consult your 2009 AMA CPT book for a complete list of modifiers including descriptions and instructions.*

**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)

(For remote monitoring of physiologic cardiovascular data elements derived from an ICD, use 93297)

(Do not report 93295 in conjunction with 93289)

(Report 93295 only once per 90 days)

**93296** Interrogation device evaluation(s) (remote), up to 90 days; single, dual or multiple lead implantable cardioverter defibrillator system, remote data acquisitions(s), receipt of transmissions and technician review, technical support and distribution of results

(Do not report 93296 in conjunction with 93288, 93289, 93299)

(Report 93296 only once per 90 days)

### **Implantable Cardioverter-Defibrillator – Peri Procedural Device Evaluation**

**93287** Peri-procedural device evaluation and programming of device system parameters before or after a surgery, procedure, or test with physician analysis, review and report; single, dual, or multiple lead implantable cardioverter-defibrillator system

### **CPT ICM Definition**

*Implantable cardiovascular monitor (ICM):* an implantable cardiovascular device used to assist the physician in the management of non-rhythm related cardiac conditions such as heart failure. The device collects longitudinal physiologic cardiovascular data elements from one or more internal sensors (such as right ventricular pressure, left atrial pressure or an index of lung water) and/or external sensors (such as blood pressure or body weight) for patient assessment and management. The data are stored and transmitted to the physician by either local telemetry or remotely to an Internet based file server or surveillance technician. The function of the ICM may be an additional function of an implantable cardiac device (eg, implantable cardioverter-defibrillator) or a function of a stand-alone device. When ICM functionality is included in an ICD device, the ICM data and the

ICD heart rhythm data such as sensing, pacing and tachycardia detection therapy are distinct and therefore, the monitoring processes are distinct.

*Required Components:* Programmed parameters and analysis of at least one recorded physiologic cardiovascular data element from either internal or external sensors.

### **ICM – In Person Interrogation Device Evaluation**

**93290** Interrogation device evaluation (in-person) with physician analysis, review and report, includes connection, recording and disconnection per patient encounter; implantable cardiovascular monitor system, including analysis of 1 or more recorded physiologic cardiovascular data elements from all internal and external sensors

(For heart rhythm derived data elements, use 93289)

(Do not report 93290 in conjunction with 93297, 93299)

### **ICM – Remote Interrogation Device Evaluation**

**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)

(For heart rhythm derived data elements, use 93295)

(Do not report 93297 in conjunction with 93290, 93298)

(Report 93297 only once per 30 days)

**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

(Do not report 93299 in conjunction with 93290, 93291, 93296)

(Report 93299 only once per 30 days)

### **Implantable Loop Recorder (ILR) Definition**

*Implantable Loop Recorder (ILR):* an implantable device that continuously records the electrocardiographic rhythm triggered automatically by rapid and slow heart rates or by the patient during a symptomatic episode. The ILR function may be the only function of the device or it may be part of a pacemaker or implantable cardioverter-defibrillator device. The data are stored and transmitted to the physician by either local telemetry or remotely to an Internet based file server or surveillance technician.

*Components for remote and in person:* Programmed parameters and the heart rate and rhythm during recorded episodes from both patient initiated and device algorithm detected events, when present.

*Components for programming device evaluation:* A procedure performed for patients with a pacemaker, implantable cardioverter-defibrillator, or implantable loop recorder. All device functions, including the battery, programmable settings and lead(s), when present, are evaluated. To assess

capture thresholds, iterative adjustments (eg, progressive changes in pacing output of a pacing lead) of the programmable parameters are conducted. The iterative adjustments provide information that permits the operator to assess and select the most appropriate final program parameters to provide for consistent delivery of the appropriate therapy and to verify the function of the device. The final program parameters may or may not change after evaluation.

The programming device evaluation includes all of the components of the interrogation device evaluation (remote) or the interrogation device evaluation (in person), and it includes the selection of patient specific programmed parameters depending on the type of device.

*Required Components:* Programmed parameters and the heart rhythm during recorded episodes from both patient initiated and device algorithm detected events. Often, but not always, the tachycardia and bradycardia detection criteria will be adjusted during a programming evaluation.

### **Implantable loop Recorder (ILR) In Person**

**93291** Interrogation device evaluation (in-person) with physician analysis, review and report, includes connection, recording and disconnection per patient encounter; implantable loop recorder system, including heart rhythm derived data analysis

**93285** 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; implantable loop recorder system

### **Implantable loop Recorder (ILR) Remote**

**93298** Interrogation device evaluation(s), (remote) up to 30 days; implantable loop recorder system, including analysis of recorded heart rhythm data, physician analysis, review(s) and report(s)

**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

### **Wearable Defibrillator In Person**

**93292** Interrogation device evaluation (in-person) with physician analysis, review and report, includes connection, recording and disconnection per patient encounter; wearable defibrillator system

### **Wearable Mobile Cardiovascular Telemetry**

**93228** Wearable mobile cardiovascular telemetry with electrocardiographic recording, concurrent computerized real time data analysis and greater than 24 hours of accessible ECG data storage (retrievable with query) with ECG triggered and patient selected events transmitted to a remote attended surveillance center for up to 30 days; physician review and interpretation with report

**93229** Wearable mobile cardiovascular telemetry with electrocardiographic recording, concurrent computerized real time data analysis and greater than 24 hours of accessible ECG data storage (retrievable with query) with ECG triggered and patient selected events transmitted to a remote attended surveillance center for up to 30 days; technical support for connection and patient instructions for use, attended surveillance, analysis and physician prescribed transmission of daily and emergent data reports

# Commonly Billed Procedures

Single chamber pacemaker follow-up (in person)		
Hospital Inpatient ICD-9-CM Codes <sup>3</sup>	Hospital Outpatient* CPT® Codes <sup>1,2</sup>	Physician* CPT® Codes <sup>1,2</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) (37.26)</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)		
Hospital Inpatient ICD-9-CM Codes <sup>3</sup>	Hospital Outpatient* CPT® Codes <sup>1,2</sup>	Physician* CPT® Codes <sup>1,2</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) (37.26)</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>93280</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 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>93280</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 pacemaker system</p>

## Dual chamber pacemaker follow-up (remote)

<b>Hospital Inpatient</b> ICD-9-CM Codes <sup>3</sup>	<b>Hospital Outpatient*</b> CPT® Codes <sup>1,2</sup>	<b>Physician*</b> CPT® Codes <sup>1,2</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) (37.26)</li> </ul>	<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>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>

## Single chamber ICD follow-up (in person)

<b>Hospital Inpatient</b> ICD-9-CM Codes <sup>3</sup>	<b>Hospital Outpatient*</b> CPT® Codes <sup>1,2</sup>	<b>Physician*</b> CPT® Codes <sup>1,2</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>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></p> <p><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>

<b>Dual chamber ICD follow-up (in person)</b>		
<b>Hospital Inpatient</b> ICD-9-CM Codes <sup>3</sup>	<b>Hospital Outpatient*</b> CPT® Codes <sup>1,2</sup>	<b>Physician*</b> CPT® Codes <sup>1,2</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>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> <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>

<b>ICD follow-up (remote)</b>		
<b>Hospital Inpatient</b> ICD-9-CM Codes <sup>3</sup>	<b>Hospital Outpatient*</b> CPT® Codes <sup>1,2</sup>	<b>Physician*</b> CPT® Codes <sup>1,2</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) (37.26)</li> </ul>	<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>

## ICD follow-up (remote) with analysis of Implantable Cardiovascular Monitor (ICM)

<b>Hospital Inpatient</b> ICD-9-CM Codes <sup>3</sup>	<b>Hospital Outpatient*</b> CPT® Codes <sup>1,2</sup>	<b>Physician*</b> CPT® Codes <sup>1,2</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) (37.26)</li> </ul>	<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>AND (if applicable)</b> <b>93299</b> 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><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>AND (if applicable)</b> <b>93299</b> 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>

<b>CRT-P follow-up (in person)</b>		
<b>Hospital Inpatient</b> ICD-9-CM Codes <sup>3</sup>	<b>Hospital Outpatient*</b> CPT® Codes <sup>1,2</sup>	<b>Physician*</b> CPT® Codes <sup>1,2</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) (37.26)</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> <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>93281-26**</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> <b>93288-26**</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>

<b>CRT-P follow-up (remote)</b>		
<b>Hospital Inpatient</b> ICD-9-CM Codes <sup>3</sup>	<b>Hospital Outpatient*</b> CPT® Codes <sup>1,2</sup>	<b>Physician*</b> CPT® Codes <sup>1,2</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) (37.26)</li> </ul>	<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> <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> <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 follow-up (remote) with analysis of Implantable Cardiovascular Monitor (ICM) data

Hospital Inpatient ICD-9-CM Codes <sup>3</sup>	Hospital Outpatient* CPT® Codes <sup>1,2</sup>	Physician* CPT® Codes <sup>1,2</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) (37.26)</li> </ul>	<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>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>AND (if applicable)</b> <b>93299</b> 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><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>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>AND (if applicable)</b> <b>93299</b> 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>

### CRT-D follow-up (in person)

<b>Hospital Inpatient</b> ICD-9-CM Codes <sup>3</sup>	<b>Hospital Outpatient*</b> CPT® Codes <sup>1,2</sup>	<b>Physician*</b> CPT® Codes <sup>1,2</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) (37.26)</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>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></p> <p><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 follow-up (remote)

<b>Hospital Inpatient</b> ICD-9-CM Codes <sup>3</sup>	<b>Hospital Outpatient*</b> CPT® Codes <sup>1,2</sup>	<b>Physician*</b> CPT® Codes <sup>1,2</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) (37.26)</li> </ul>	<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>

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

<b>Hospital Inpatient</b> ICD-9-CM Codes <sup>3</sup>	<b>Hospital Outpatient*</b> CPT® Codes <sup>1,2</sup>	<b>Physician*</b> CPT® Codes <sup>1,2</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) (37.26)</li> </ul>	<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>AND (if applicable)</b>  <b>93299</b>                      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><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>AND (if applicable)</b>  <b>93299</b>                      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>

\* 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 claims(s) will be returned to the hospital for correction. Find C-codes for Electrophysiology catheters at [http://www.bostonscientific.com/templatedata/imports/HTML/CRM/Reimbursement/pdf/Electrophysiology\\_CrossReferenceGuide.pdf](http://www.bostonscientific.com/templatedata/imports/HTML/CRM/Reimbursement/pdf/Electrophysiology_CrossReferenceGuide.pdf). Also find C-codes for electrophysiology catheters and related accessories (e.g., introducers, catheters, sheaths) at [http://www.cms.hhs.gov/HospitalOutpatientPPS/Downloads/DeviceCats\\_OPSPUpdate.pdf](http://www.cms.hhs.gov/HospitalOutpatientPPS/Downloads/DeviceCats_OPSPUpdate.pdf) or [http://www.cms.hhs.gov/HospitalOutpatientPPS/04\\_passthrough\\_payment.asp#TopOfPage](http://www.cms.hhs.gov/HospitalOutpatientPPS/04_passthrough_payment.asp#TopOfPage)

\*\*Modifier -26 (professional component) is for physician billing only. See the *AMA's Current Procedural Terminology 2008* for complete descriptions.

† See note below.

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#### References:

- <sup>1</sup> Heart Rhythm Society. *Coding Guide for Heart Rhythm Procedures and Services 2008*. Washington D.C.:2008.
- <sup>2</sup> American Medical Association. *Current Procedural Terminology (CPT) 2008*. Professional Edition. Chicago, IL: 2007. Current Procedural Terminology (CPT) is copyright 2007. American Medical Association. All Rights Reserved. No fee schedules, basic units. Relative values of related listings are included in CPT. The AMA assumes no liability for the data contained herein. Applicable FARS/DRAFS restrictions apply to government use. CPT is a registered trademark of the American Medical Association.

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