



6 Cardiac Device Monitoring

Commonly Billed Cardiac Device Monitoring
Scenarios 6-1

Commonly Billed Cardiac Device Monitoring Scenarios

Key:

⊙ **Moderate sedation** (For these procedures, moderate [conscious] sedation is included and cannot be billed separately when provided by the same physician. See AMA's 2012 *Current Procedural Terminology* for specific guidelines.) + **Add-on code**

Physician CPT® Codes¹

Hospital Outpatient CPT® Codes²

Hospital Inpatient ICD-9-CM Codes³

6.1 *Single chamber pacemaker follow-up (in person)*

Scenario 6.1: *Physician CPT® Codes¹*

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

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

Scenario 6.1: *Hospital Outpatient CPT® Codes²*

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

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

Scenario 6.1: *Hospital Inpatient ICD-9-CM Codes³*

89.45 Artificial pacemaker rate check

- Artificial pacemaker function check NOS
- Bedside device check of pacemaker or cardiac resynchronization pacemaker [CRT-P]
- Interrogation only without arrhythmia induction

Excludes:

- Catheter based invasive electrophysiologic testing (37.26)
- Non-invasive programmed electrical stimulation [NIPS] (arrhythmia induction) (37.20)

6.2 Dual chamber pacemaker follow-up (in person)

Scenario 6.2: Physician CPT® Codes¹

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

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

Scenario 6.2: Hospital Outpatient CPT® Codes²

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

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

Scenario 6.2: Hospital Inpatient ICD-9-CM Codes³

- 89.45 Artificial pacemaker rate check
- Artificial pacemaker function check NOS
 - Bedside device check of pacemaker or cardiac resynchronization pacemaker [CRT-P]
 - Interrogation only without arrhythmia induction

Excludes:

- Catheter based invasive electrophysiologic testing (37.26)
- Non-invasive programmed electrical stimulation [NIPS] (arrhythmia induction) (37.20)

6.3 Dual chamber pacemaker follow-up (remote)

Scenario 6.3: Physician CPT® Codes¹

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)

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

Scenario 6.3: Hospital Outpatient CPT® Codes²

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)

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

Scenario 6.3: Hospital Inpatient ICD-9-CM Codes³

N/A

6.4 Single chamber ICD follow-up (in person)**Scenario 6.4: Physician CPT® Codes¹**

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

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

Scenario 6.4: Hospital Outpatient CPT® Codes²

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

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

Scenario 6.4: Hospital Inpatient ICD-9-CM Codes³

89.49 Automatic implantable cardioverter-defibrillator (AICD) check

- Bedside check of an AICD or cardiac resynchronization defibrillator [CRT-D]
- Checking pacing thresholds of device
- Interrogation only without arrhythmia induction

Excludes:

- Catheter based invasive electrophysiologic testing (37.26)
- Non-invasive programmed electrical stimulation [NIPS] (arrhythmia induction) (37.20)

6.5 Dual chamber ICD follow-up (in person)

Scenario 6.5: Physician CPT® Codes¹

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

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

Scenario 6.5: Hospital Outpatient CPT® Codes²

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

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

Scenario 6.5: Hospital Inpatient ICD-9-CM Codes³

- 89.49 Automatic implantable cardioverter-defibrillator (AICD) check
- Bedside check of an AICD or cardiac resynchronization defibrillator [CRT-D]
 - Checking pacing thresholds of device
 - Interrogation only without arrhythmia induction

Excludes:

- Catheter based invasive electrophysiologic testing (37.26)
- Non-invasive programmed electrical stimulation [NIPS] (arrhythmia induction) (37.20)

6.6 ICD follow-up (remote)

Scenario 6.6: Physician CPT® Codes¹

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)

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

Scenario 6.6: Hospital Outpatient CPT® Codes²

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)

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

Scenario 6.6: Hospital Inpatient ICD-9-CM Codes³

N/A

6.7 ICD follow-up (remote) with analysis of Implantable Cardiovascular Monitor (ICM)**Scenario 6.7: Physician CPT® Codes¹**

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)

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

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)

Scenario 6.7: Hospital Outpatient CPT® Codes²

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)

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

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)

Scenario 6.7: Hospital Inpatient ICD-9-CM Codes³

N/A

6.8 CRT-P (3 leads) follow-up (in person)

Scenario 6.8: Physician CPT® Codes¹

93288-26⁴ 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

or

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

Scenario 6.8: Hospital Outpatient CPT® Codes²

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

or

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

Scenario 6.8: Hospital Inpatient ICD-9-CM Codes³

- 89.45 Artificial pacemaker rate check
- Artificial pacemaker function check NOS
 - Bedside device check of pacemaker or cardiac resynchronization pacemaker [CRT-P]
 - Interrogation only without arrhythmia induction

Excludes:

- Catheter based invasive electrophysiologic testing (37.26)
- Non-invasive programmed electrical stimulation [NIPS] (arrhythmia induction) (37.20)

6.9 CRT-P follow-up (remote)

Scenario 6.9: Physician CPT® Codes¹

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)

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

Scenario 6.9: Hospital Outpatient CPT® Codes²

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)

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

Scenario 6.9: Hospital Inpatient ICD-9-CM Codes³

N/A

6.10 CRT-P follow-up (remote) with analysis of Implantable Cardiovascular Monitor (ICM) data**Scenario 6.10: Physician CPT® Codes¹**

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)

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

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)

Scenario 6.10: Hospital Outpatient CPT® Codes²

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)

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

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)

Scenario 6.10: Hospital Inpatient ICD-9-CM Codes³

N/A

6.11 CRT-D (3 leads) follow-up (in person)**Scenario 6.11: Physician CPT® Codes¹**

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

or

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: dual lead implantable cardioverter-defibrillator system

Scenario 6.11: Hospital Outpatient CPT® Codes²

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

or

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: dual lead implantable cardioverter-defibrillator system

Scenario 6.11: Hospital Inpatient ICD-9-CM Codes³

- 89.49** Automatic implantable cardioverter-defibrillator (AICD) check
- Bedside check of an AICD or cardiac resynchronization defibrillator [CRT-D]
 - Checking pacing thresholds of device
 - Interrogation only without arrhythmia induction

Excludes:

- Catheter based invasive electrophysiologic testing (37.26)
- Non-invasive programmed electrical stimulation [NIPS] (arrhythmia induction) (37.20)

6.12 CRT-D follow-up (remote)**Scenario 6.12: Physician CPT® Codes¹**

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)

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

Scenario 6.12: Hospital Outpatient CPT® Codes²

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)

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

Scenario 6.12: Hospital Inpatient ICD-9-CM Codes³

N/A

6.13 CRT-D follow-up (remote) with analysis of Implantable Cardiovascular Monitor (ICM) data**Scenario 6.13: Physician CPT® Codes¹**

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)

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

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)

Scenario 6.13: Hospital Outpatient CPT® Codes²

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)

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

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)

Scenario 6.13: Hospital Inpatient ICD-9-CM Codes³

N/A

6.14 Remote analysis of Implantable Cardiovascular Monitor (ICM)

Scenario 6.14: Physician CPT® Codes¹

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)

and

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

Scenario 6.14: Hospital Outpatient CPT® Codes²

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)

and

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

Scenario 6.14: Hospital Inpatient ICD-9-CM Codes³

N/A

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² As of January 1, 2005, the Centers for Medicare and Medicaid Services (CMS) require 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_OPUpdate.pdf.

³ American Medical Association: *2012 ICD-9-CM for Hospitals, Volumes 1, 2 and 3, Professional Edition*, Chicago, IL.

⁴ Modifiers 26 (professional component) and 51 (multiple procedures) are for physician billing only. See the AMA's *2012 Current Procedural Terminology* for complete descriptions. Always verify appropriate usage with payers.

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