



CARDIAC DEVICE MONITORING

2018 CPT® Codes

Medtronic

CPT Code	CPT Code Description
IMPLANTABLE PACEMAKER	
93288	Interrogation device evaluation (in person) with analysis, review and report by a physician or other qualified health care professional, 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)
0391T	Interrogation device evaluation (in person) with analysis, review and report, includes connection, recording and disconnection per patient encounter, leadless pacemaker system (Do not report 0391T in conjunction with 0387T, 0389T, 0390T) (For interrogation device evaluation of pacemaker systems with lead(s), see 93288, 93289)
0389T	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 analysis, review and report, leadless pacemaker system (Do not report 0389T in conjunction with 0387T, 0390T, 0391T) (For programming of pacemaker systems with lead(s), see 93279-93281)
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 analysis, review and report by a physician or other qualified health care professional; single lead pacemaker system (Do not report 93279 in conjunction with 93286, 93288)
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 analysis, review and report by a physician or other qualified health care professional; dual lead pacemaker system (Do not report 93280 in conjunction with 93286, 93288)

CPT Code	CPT Code Description
IMPLANTABLE PACEMAKER (cont'd.)	
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 analysis, review and report by a physician or other qualified health care professional; multiple lead pacemaker system (Do not report 93281 in conjunction with 93286, 93288)
93294	Interrogation device evaluation(s) (remote), up to 90 days; single, dual, or multiple lead pacemaker system with interim analysis, review(s) and report(s) by a physician or other qualified health care professional (Do not report 93294 in conjunction with 93288, 93293) (Report 93294 only once per 90 days) (Do not report 93293-93296 if the monitoring period is less than 30 days)
93296	Interrogation device evaluation(s) (remote), up to 90 days; single, dual, or multiple lead pacemaker system or implantable defibrillator system, remote data acquisition(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) (Do not report 93293-93296 if the monitoring period is less than 30 days)
93293	Transtelephonic rhythm strip pacemaker evaluation(s) single, dual, or multiple lead pacemaker system, includes recording with and without magnet application with analysis, review and report(s) by a physician or other qualified health care professional, up to 90 days (Do not report 93293 in conjunction with 93294) (For in person evaluation, see 93040, 93041, 93042) (Report 93293 only once per 90 days) (Do not report 93293-93296 if the monitoring period is less than 30 days)

CPT Code	CPT Code Description
IMPLANTABLE DEFIBRILLATOR	
93289	Interrogation device evaluation (in person) with analysis, review and report by a physician or other qualified health care professional, includes connection, recording and disconnection per patient encounter; single, dual, or multiple lead transvenous implantable defibrillator system, including analysis of heart rhythm derived data elements (For monitoring physiologic cardiovascular data elements derived from an implantable defibrillator, use 93290) (Do not report 93289 in conjunction with 93261, 93282-93284, 93287, 93295, 93296)
93261	Interrogation device evaluation (in person) with analysis, review and report by a physician or other qualified health care professional, includes connection, recording and disconnection per patient encounter; implantable subcutaneous lead defibrillator system (Do not report 93261 in conjunction with 93260, 93287, 93289) (Do not report 93261 in conjunction with pulse generator and lead insertion or repositioning codes 33240-33241, 33262, 33270-33273)
93260	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 analysis, review and report by a physician or other qualified health care professional; implantable subcutaneous lead defibrillator system (Do not report 93260 in conjunction with 93261, 93282, 93287) (Do not report 93260 in conjunction with pulse generator and lead insertion or repositioning codes 33240-33241, 33262, 33270-33273)
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 analysis, review and report by a physician or other qualified health care professional; single lead transvenous implantable defibrillator system (Do not report 93282 in conjunction with 93260, 93287, 93289, 93745)

CPT Code	CPT Code Description
IMPLANTABLE DEFIBRILLATOR (cont'd.)	
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 analysis, review and report by a physician or other qualified health care professional; dual lead transvenous implantable defibrillator system (Do not report 93283 in conjunction with 93287, 93289)
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 analysis, review and report by a physician or other qualified health care professional; multiple lead transvenous implantable defibrillator system (Do not report 93284 in conjunction with 93287, 93289)
93295	Interrogation device evaluation(s) (remote), up to 90 days; single, dual, or multiple lead implantable defibrillator system with interim analysis, review(s) and report(s) by a physician or other qualified health care professional (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) (Do not report 93293-93296 if the monitoring period is less than 30 days)
93296	Interrogation device evaluation(s) (remote), up to 90 days; single, dual, or multiple lead pacemaker system or implantable defibrillator system, remote data acquisition(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) (Do not report 93293-93296 if the monitoring period is less than 30 days)

CPT Code	CPT Code Description
IMPLANTABLE CARDIOVASCULAR MONITOR	
93290	Interrogation device evaluation (in person) with analysis, review and report by a physician or other qualified health care professional, 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)
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, analysis, review(s) and report(s) by a physician or other qualified health care professional (For heart rhythm derived data elements, use 93295) (Do not report 93297 in conjunction with 93290, 93298) (Report 93297 only once per 30 days) (Do not report 93297-93299, if the monitoring period is less than 10 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) (Do not report 93297-93299, if the monitoring period is less than 10 days)

CPT Code	CPT Code Description
IMPLANTABLE LOOP RECORDER	
93285	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 analysis, review and report by a physician or other qualified health care professional; implantable loop recorder system (Do not report 93285 in conjunction with 33282, 93279-93284, 93291)
93291	Interrogation device evaluation (in person) with analysis, review and report by a physician or other qualified health care professional, includes connection, recording and disconnection per patient encounter; implantable loop recorder system, including heart rhythm derived data analysis (Do not report 93291 in conjunction with 33282, 93288-93290, 93298, 93299)
93298	Interrogation device evaluation(s), (remote) up to 30 days; implantable loop recorder system, including analysis of recorded heart rhythm data, analysis, review(s) and report(s) by a physician or other qualified health care professional (Do not report 93298 in conjunction with 33282, 93291, 93297) (Report 93298 only once per 30 days) (Do not report 93297-93299, if the monitoring period is less than 10 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) (Do not report 93297-93299, if the monitoring period is less than 10 days)

CPT Code	CPT Code Description
PERI-PROCEDURAL	
93286	Peri-procedural device evaluation (in person) and programming of device system parameters before or after a surgery, procedure, or test with analysis, review and report by a physician or other qualified health care professional; single, dual, or multiple lead pacemaker system (Do not report 93286 in conjunction with 93279-93281, 93288, 0408T-0411T, 0414T-0415T)
0390T	Peri-procedural device evaluation (in person) and programming of device system parameters before or after a surgery, procedure or test with analysis, review and report, leadless pacemaker system (Do not report 0390T in conjunction with 0387T, 0389T, 0391T) (For peri-procedural device evaluation of systems with lead(s), see 93286, 93287)
93287	Peri-procedural device evaluation (in person) and programming of device system parameters before or after a surgery, procedure, or test with analysis, review and report by a physician or other qualified health care professional; single, dual, or multiple lead implantable defibrillator system (Do not report 93287 in conjunction with 93260-93261, 93282-93284, 93289, 0408T-0411T, 0414T-0415T)
EXTERNAL MOBILE CARDIOVASCULAR TELEMETRY	
93228	External 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; review and interpretation with report by a physician or other qualified health care professional (Report 93228 only once per 30 days) (Do not report 93228 in conjunction with 93224 and 93227)

CPT Code	CPT Code Description
EXTERNAL MOBILE CARDIOVASCULAR TELEMETRY (cont'd.)	
93229	External 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 transmission of daily and emergent data reports as prescribed by a physician or other qualified health care professional (Report 93229 only once per 30 days) (Do not report 93229 in conjunction with 93224 and 93226) (For external cardiovascular monitors that do not perform automatic ECG triggered transmissions to an attended surveillance center, see 93224-93227, 93268-93272)
WEARABLE CARDIOVERTER-DEFIBRILLATOR	
93292	Interrogation device evaluation (in person) with analysis, review and report by a physician or other qualified health care professional, includes connection, recording and disconnection per patient encounter; wearable defibrillator system (Do not report 93292 in conjunction with 93745)
93745	Initial set-up and programming by a physician or other qualified health care professional of wearable cardioverter-defibrillator includes initial programming of system, establishing baseline electronic ECG, transmission of data to data repository, patient instruction in wearing system and patient reporting of problems or events (Do not report 93745 in conjunction with 93282, 93292)

Additional Coding Information:

It is important to refer to the CPT® code¹ descriptions to ensure that a billed code meets the specific requirements defined for each individual code. The local Medicare contractor/payer should be contacted for interpretation of applicable policies. In addition, the National Correct Coding Initiative (NCCI) edits should be checked.

Cardiac device evaluation CPT codes include both in person and remote monitoring services. Remote monitoring codes represent either a 30- or 90-day monitoring period and there are separate codes for the professional component (PC) and the technical component (TC).

Physician Billing: Remote monitoring services require billing two different CPT codes for an office Place of Service (POS),² when both components of the service are performed by the office. One code represents the professional component (PC) and another code represents the technical component (TC). These code pairs are: CPT 93294 and 93296, 93295 and 93296, 93297 and 93299, and 93298 and 93299. The in person codes are configured as a global code. When the in person device evaluation or interrogation is performed in a facility (hospital) setting, modifier -26 should be appended to the applicable in person code when billing the professional component (PC). This -26 modifier is not applicable for remote monitoring services since there is a separate PC code, CPT 93294, 93295, 93297, and 93298.

The professional component reflects physician time and intensity in furnishing the service, including activities before and after direct patient contact.³

The technical component refers to the resources used in furnishing the service, such as office rent, wages of personnel, and other office practice expenses. For remote monitoring, the CPT code description (CPT codes 93296 & 93299) identifies the work involved with remote monitoring technical services, including remote data acquisition(s), receipt of transmissions and technician review, technical support and distribution of results.

Hospital Inpatient or Outpatient Billing: The service is "split-billed" with the professional component (PC) billed on a 1500 (professional claim form), and the technical component (TC, facility fee) is billed by the hospital on a UB-04 claim form.

Physician Supervision Requirements

Cardiac device monitoring services are defined by Medicare as diagnostic services.³ As such, Medicare regulations require specific supervision for diagnostic tests. These are applicable to the technical component of the electronic analysis of implanted cardiac devices. These supervision requirements are in addition to any other Medicare coverage requirements. The Medicare supervision requirements for individual CPT codes are available on the Physician Fee Schedule (PFS) lookup function on the Medicare website⁵ or under "PFS Relative Value Files" for 2018.⁴

Medicare requires:

- General supervision of the technical component for all remote interrogation services and transtelephonic pacemaker monitoring (codes 93296, 93299, and 93293)
- Direct supervision of the technical component for all in person cardiac device evaluations when performed with an office POS

General supervision⁵ means the procedure is furnished under the physician's overall direction and control but the physician's presence is not required during the performance of the procedure. Under general supervision, the training of the non-physician personnel who actually performs the diagnostic procedure and the maintenance of the necessary equipment and supplies are the continuing responsibility of the physician.

Direct supervision⁶ in a hospital (facility) setting means that the physician must be immediately available to furnish assistance and direction throughout the performance of the procedure. The physician is not required to be present in the room where the procedure is being performed in this hospital (facility) setting or within any other physical boundary as long as he or she is immediately available.

Medicare diagnostic testing rules state that the supervisor must be a Physician. A Non-Physician Practitioner (NPP) such as a nurse practitioner or a physician assistant cannot supervise staff.³

These coding suggestions do not replace seeking coding advice from the payer and/or your own coding staff. The ultimate responsibility for correct coding lies with the provider of services. Please contact your local payer for interpretation of the appropriate codes to use for specific procedures. Medtronic makes no guarantee that the use of this information will prevent differences of opinion or disputes with Medicare or other third party payers as to the correct form of billing or the amount that will be paid to providers of service.

References

- ¹ CPT copyright 2017 American Medical Association. All rights reserved. CPT is a registered trademark of the American Medical Association.
- ² Medicare Place of Service (POS) information is located in Chapter 26 of the Medicare Claims Processing Manual at: <http://www.cms.gov/Regulations-and-Guidance/Guidance/Manuals/Downloads/clm104c26.pdf>.
New and Revised Place of Service Codes (POS) for Outpatient Hospital effective January 1, 2017: <https://www.cms.gov/Regulations-and-Guidance/Guidance/Transmittals/Downloads/R3315CP.pdf>.
- ³ Publication # 100-04 Medicare Claims Processing Manual Chapter 13 is located at: <https://www.cms.gov/Regulations-and-Guidance/Guidance/Manuals/Downloads/clm104c13.pdf>.
- ⁴ The Medicare supervision requirements are available by accessing the "PFS Relative Value Files" or "Medicare Physician Schedule Look-Up" located at: <https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/PhysicianFeeSched/index.html>.
- ⁵ Publication # 100-02 Medicare Benefit Policy Manual Chapter 15 is available at: <http://www.cms.gov/Regulations-and-Guidance/Guidance/Manuals/Downloads/bp102c15.pdf>.
- ⁶ Publication # 100-02 Medicare Benefit Policy Manual Chapter 6 is available at: <http://www.cms.gov/Regulations-and-Guidance/Guidance/Manuals/Downloads/bp102c06.pdf>.

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