

POLICY NUMBER	LAST REVIEW DATE	APPROVED BY
MG.MM.DM.18cC2	12/8/2023	MPC (Medical Policy Committee)

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Definitions

Cardiac event monitors are small portable devices worn by a patient during normal activity for up to 30 days. The device has a recording system capable of storing several minutes of the individual's electrocardiogram (EKG) record. The patient can initiate EKG recording during a symptomatic period of arrhythmia. These monitors are particularly useful in obtaining a record of arrhythmia that would not be discovered on a routine EKG or an arrhythmia that is so infrequent that it is not detected during a 24-hour period by a Holter monitor.

Two different types of cardiac event monitors are available. Pre-symptom (looping memory) event monitors are equipped with electrodes attached to the chest and are able to capture EKG rhythms before the cardiac event monitor is triggered (pre-symptom recording). Post-symptom event monitors do not have chest electrodes. One type of post-symptom event monitor is worn on the wrist. When symptoms occur, the patient presses a button to trigger an EKG recording. Another type of post-symptom event monitor is a device that the patient carries within easy reach. When symptoms occur, the patient presses the electrodes on the device against their chest and presses a button to trigger the EKG recording.

Cardiac event monitors have been developed with automatic trigger capabilities, which are designed to automatically trigger an EKG recording when certain arrhythmias occur. Automated trigger cardiac event monitors are thought to be more sensitive, but less specific, than manually-triggered cardiac event monitors for significant cardiac arrhythmias.

Cardiac event monitors may come with 24-hour remote monitoring. Usually, EKG results are transmitted over standard phone lines at the end of each day to an attended monitoring center



where a technician screens EKG results and notifies the patient's physician of any significant abnormal results, based on predetermined notification criteria.

Newer cardiac event monitors allow EKG results to be transmitted via e-mail over the internet. Some cardiac event monitors allow the patient to transmit EKG over standard telephone lines to the attended monitoring center immediately after symptoms occur while other cardiac event monitors have been adapted to also allow immediate transmission of EKG results by cellular telephone.

Standard cardiac event monitors come with 5 to 10 mins of memory. Cardiac event monitors with expanded memory capabilities have been developed, extending memory from approximately 20 to 30 mins to as much as several hours.

Mobile cardiovascular telemetry (MCT) refers to non-invasive ambulatory cardiac event monitors with extended memory capable of continuous measurement of heart rate and rhythm over several days, with transmission of results to a remote monitoring center. MCT is similar to standard cardiac telemetry used in the hospital setting.

CardioNet (Philadelphia, PA) has developed an MCT device with extended memory, automatic ECG arrhythmia detector and alarm that is incorporated into a service that CardioNet has termed "Mobile Cardiac Outpatient Telemetry (MCOT)." The CardioNet device couples an automatic arrhythmia detector and cellular telephone transmission so that abnormal EKG waveforms can automatically be transmitted immediately to the remote monitoring center. The CardioNet device also has an extended memory characteristic of digital Holter monitors; the CardioNet device is capable of storing up to 96 hours of EKG waveforms. These ECG results are transmitted over standard telephone lines to the remote monitoring center at the end of each day. The physician receives both urgent and daily reports.

Guideline

I. External intermittent cardiac event monitors (i.e., external loop recorders) and external intermittent cardiac event monitors with real-time data transmission and analysis (e.g., eCardio eVolution)

Medically necessary for **any** of the following conditions:

- A. To evaluate members with a history of cryptogenic stroke who have had a negative 24-hour Holter or negative monitoring for 24 hours during a hospital stay
- B. To document the benefit after initiating drug therapy for an arrhythmia
- C. To document recurrence of arrhythmia after discontinuation of drug therapy
- D. To document results after ablation procedure for arrhythmia
- E. To evaluate members with symptoms suggestive of arrhythmia, such as palpitations, heart racing, dizziness or syncope who have had a negative 24-hour Holter monitor or who have symptoms that are documented to be less frequent than every 24 hours

II. Mobile cardiovascular telemetry (MCT)



(E.g., CardioNet Mobile Cardiac Outpatient Telemetry [MCOT] Service; Cardiac Telecom and Health Monitoring Services of America's Telemetry @ Home Service; Heartrak ECAT [External Cardiac Ambulatory Telemetry] [Mednet Healthcare Technologies]; HEARTLink™ II ECG Arrhythmia Detector and Alarm System [Cardiac Telecom]; LifeStar ACT Monitor [LifeWatch]; SAVI® Telemetry [Mediacomp]; Scott Care™ Cardiovascular Solutions])

Medically necessary for the evaluation of recurrent unexplained episodes of pre-syncope, syncope, palpitations or dizziness when the following criteria (**A or B**) is met:

- A. Evaluation of recurrent unexplained episodes of presyncope, syncope, palpitations or dizziness when both are applicable:
 - i. Cardiac arrhythmia is suspected cause of symptoms
 - ii. Member has a non-diagnostic Holter monitor, or symptoms occur infrequently (i.e., < daily) such that the arrhythmia is unlikely to be diagnosed by Holter monitoring
- B. Evaluation of members with suspected AF as a cause of cryptogenic stroke who have had a nondiagnostic Holter monitor

III. Implantable loop recorder (e.g., Reveal Insertable Loop Recorder [Medtronic])

Medically necessary for the following indications:

- A. Evaluation of recurrent unexplained episodes of pre-syncope, syncope, "seizures" or dizziness when **both** of the following criteria are met:
 - i. Cardiac arrhythmia is suspected cause of symptoms
 - ii. **Either** of the following criteria is met:
 - a. Member with heart failure, prior myocardial infarction (MI) or significant ECG abnormalities (see <u>Appendix</u>) — noninvasive ambulatory monitoring (consisting of 30-day presymptom external loop recordings or MCT) fails to establish a definitive diagnosis
 - b. Member without heart failure, prior MI or significant ECG
 abnormalities (see <u>Appendix</u>) symptoms occur so infrequently
 and unpredictably (i.e., < once per month) that noninvasive
 ambulatory monitoring (MCT or external loop recorders) are
 unlikely to capture a diagnostic ECG
- B. For evaluation of members with suspected AF as a cause of cryptogenic stroke who have had a nondiagnostic Holter monitor.

Note: Depending on clinical presentation, the member may have had a negative or non-diagnostic electrophysiological study (EPS); however, EPS is no longer considered a prerequisite to insertion of an implantable loop recorder.

IV. Long-term (> 48 hours) external ECG monitoring by continuous rhythm recording and storage (e.g., Zio Patch)

Medically necessary for the following indications:

A. To evaluate syncope and lightheadedness in members with a non-



- diagnostic Holter monitor, or in members whose symptoms occur infrequently (i.e., < daily) such that the arrhythmia is unlikely to be diagnosed by Holter monitoring
- B. To document arrhythmia in members with a non-diagnostic Holter monitor, or in members whose symptoms occur infrequently (i.e., < daily) such that the arrhythmia is unlikely to be diagnosed by Holter monitoring

Limitations/Exclusions

Requests for repeat studies within 1 year of a previous study will be case-by-case reviewed.

Loop recorders (regardless of whether they are external or implantable) are not considered medically necessary for any indications other than those listed above.

The following are considered investigational and not medically necessary due to insufficient evidence of therapeutic value:

- A. AliveCor Heart Monitor (iPhoneECG)
- B. BIOTRONIK BioMonitor
- C. Mobile patient management systems (eg, BodyGuardian Remote Monitoring System)
- D. Self-monitoring ECG technologies or the ViSi Mobile Monitoring System
- E. Acoustic waveform recording with automated analysis and generation of coronary artery disease risk score (CPT 0716T eff. 07/01/2022)

Cardiac event detection, CPT codes 93268, 93270, 93271, 93272, is a 30-day packaged service. Tests may not be billed within 30 days of each other, even if the earlier of the tests was discontinued when arrhythmias were documented, and the patient is now reconnected for follow-up of therapy or intervention.

Medical Coding

I. Applicable Procedure Codes

External intermittent cardiac event monitors (i.e., external loop recorders) and external intermittent cardiac event monitors with real-time data transmission and analysis (e.g., eCardio eVolution)

93268	External patient and, when performed, auto activated electrocardiographic rhythm derived event recording with symptom-related memory loop with remote download capability up to 30 days, 24-hour attended monitoring; includes transmission, review and interpretation by a physician or other qualified health care professional
93270	External patient and, when performed, auto activated electrocardiographic rhythm derived event recording with symptom-related memory loop with remote download capability up to 30 days, 24-hour attended monitoring; recording (includes connection, recording, and disconnection)



93271	External patient and, when performed, auto activated electrocardiographic rhythm derived event recording with symptom-related memory loop with remote download capability up to 30 days, 24-hour attended monitoring; transmission and analysis
93272	External patient and, when performed, auto activated electrocardiographic rhythm derived event recording with symptom-related memory loop with remote download capability up to 30 days, 24-hour attended monitoring; review and interpretation by a physician or other qualified health care professional
93224	External electrocardiographic recording up to 48 hours by continuous rhythm recording and storage; includes recording, scanning analysis with report, review and interpretation by a physician or other qualified health care professional
93225	External electrocardiographic recording up to 48 hours by continuous rhythm recording and storage; recording (includes connection, recording, and disconnection)
93226	External electrocardiographic recording up to 48 hours by continuous rhythm recording and storage; scanning analysis with report
93227	External electrocardiographic recording up to 48 hours by continuous rhythm recording and storage; review and interpretation by a physician or other qualified health care professional

Applicable ICD-10 Diagnosis Codes

External intermittent cardiac event monitors (i.e., external loop recorders) and external intermittent cardiac event monitors with real-time data transmission and analysis (e.g., eCardio eVolution)

I44.0	Atrioventricular block, first degree
I44.1	Atrioventricular block, second degree
I44.2	Atrioventricular block, complete
I44.30	Unspecified atrioventricular block
I44.39	Other atrioventricular block
I44.4	Left anterior fascicular block
I44.5	Left posterior fascicular block
I44.60	Unspecified fascicular block
I44.69	Other fascicular block
I44.7	Left bundle-branch block, unspecified
I45.0	Right fascicular block
I45.10	Unspecified right bundle-branch block
I45.19	Other right bundle-branch block
I45.2	Bifascicular block
I45.3	Trifascicular block
I45.4	Nonspecific intraventricular block
I45.5	Other specified heart block
I45.6	Pre-excitation syndrome



I45.81	Long QT syndrome
I45.89	Other specified conduction disorders
I45.9	Conduction disorder, unspecified
I47.0	Re-entry ventricular arrhythmia
I47.1	Supraventricular tachycardia
I47.2	Ventricular tachycardia
I47.9	Paroxysmal tachycardia, unspecified
I48.0	Paroxysmal atrial fibrillation
I48.11	Longstanding persistent atrial fibrillation
I48.19	Other persistent atrial fibrillation
I48.20	Chronic atrial fibrillation, unspecified
I48.21	Permanent atrial fibrillation
I48.3	Typical atrial flutter
I48.4	Atypical atrial flutter
I48.91	Unspecified atrial fibrillation
I48.92	Unspecified atrial flutter
I49.01	Ventricular fibrillation
I49.02	Ventricular flutter
I49.1	Atrial premature depolarization
I49.2	Junctional premature depolarization
I49.3	Ventricular premature depolarization
I49.40	Unspecified premature depolarization
I49.49	Other premature depolarization
I49.5	Sick sinus syndrome
I49.8	Other specified cardiac arrhythmias
I49.9	Cardiac arrhythmia, unspecified
I63.00	Cerebral infarction due to thrombosis of unspecified precerebral artery
I63.011	Cerebral infarction due to thrombosis of right vertebral artery
I63.012	Cerebral infarction due to thrombosis of left vertebral artery
I63.013	Cerebral infarction due to thrombosis of bilateral vertebral arteries
I63.019	Cerebral infarction due to thrombosis of unspecified vertebral artery
I63.02	Cerebral infarction due to thrombosis of basilar artery
I63.031	Cerebral infarction due to thrombosis of right carotid artery
I63.032	Cerebral infarction due to thrombosis of left carotid artery
I63.033	Cerebral infarction due to thrombosis of bilateral carotid arteries
I63.039	Cerebral infarction due to thrombosis of unspecified carotid artery
I63.09	Cerebral infarction due to thrombosis of other precerebral artery
I63.10	Cerebral infarction due to embolism of unspecified precerebral artery
I63.111	Cerebral infarction due to embolism of right vertebral artery



I63.112	Cerebral infarction due to embolism of left vertebral artery
I63.113	Cerebral infarction due to embolism of bilateral vertebral arteries
I63.119	Cerebral infarction due to embolism of unspecified vertebral artery
I63.12	Cerebral infarction due to embolism of basilar artery
I63.131	Cerebral infarction due to embolism of right carotid artery
I63.132	Cerebral infarction due to embolism of left carotid artery
I63.133	Cerebral infarction due to embolism of bilateral carotid arteries
I63.139	Cerebral infarction due to embolism of unspecified carotid artery
I63.19	Cerebral infarction due to embolism of other precerebral artery
I63.20	Cerebral infarction due to unspecified occlusion or stenosis of unspecified precerebral arteries
I63.211	Cerebral infarction due to unspecified occlusion or stenosis of right vertebral artery
I63.212	Cerebral infarction due to unspecified occlusion or stenosis of left vertebral artery
I63.213	Cerebral infarction due to unspecified occlusion or stenosis of bilateral vertebral arteries \
I63.219	Cerebral infarction due to unspecified occlusion or stenosis of unspecified vertebral arteries
I63.22	Cerebral infarction due to unspecified occlusion or stenosis of basilar artery
I63.231	Cerebral infarction due to unspecified occlusion or stenosis of right carotid arteries
I63.232	Cerebral infarction due to unspecified occlusion or stenosis of left carotid arteries
I63.233	Cerebral infarction due to unspecified occlusion or stenosis of bilateral carotid arteries
I63.239	Cerebral infarction due to unspecified occlusion or stenosis of unspecified carotid artery
I63.29	Cerebral infarction due to unspecified occlusion or stenosis of other precerebral arteries
163.30	Cerebral infarction due to thrombosis of unspecified cerebral artery
I63.311	Cerebral infarction due to thrombosis of right middle cerebral artery
I63.312	Cerebral infarction due to thrombosis of left middle cerebral artery
I63.313	Cerebral infarction due to thrombosis of bilateral middle cerebral arteries
I63.319	Cerebral infarction due to thrombosis of unspecified middle cerebral artery
I63.321	Cerebral infarction due to thrombosis of right anterior cerebral artery
I63.322	Cerebral infarction due to thrombosis of left anterior cerebral artery
I63.323	Cerebral infarction due to thrombosis of bilateral anterior cerebral arteries
I63.329	Cerebral infarction due to thrombosis of unspecified anterior cerebral artery
I63.331	Cerebral infarction due to thrombosis of right posterior cerebral artery
I63.332	Cerebral infarction due to thrombosis of left posterior cerebral artery
I63.333	Cerebral infarction due to thrombosis of bilateral posterior cerebral arteries
I63.339	Cerebral infarction due to thrombosis of unspecified posterior cerebral artery
I63.341	Cerebral infarction due to thrombosis of right cerebellar artery
I63.342	Cerebral infarction due to thrombosis of left cerebellar artery
I63.343	Cerebral infarction due to thrombosis of bilateral cerebellar arteries



I63.349	Cerebral infarction due to thrombosis of unspecified cerebellar artery
I63.39	Cerebral infarction due to thrombosis of other cerebral artery
I63.40	Cerebral infarction due to embolism of unspecified cerebral artery
I63.411	Cerebral infarction due to embolism of right middle cerebral artery
I63.412	Cerebral infarction due to embolism of left middle cerebral artery
I63.413	Cerebral infarction due to embolism of bilateral middle cerebral arteries
I63.419	Cerebral infarction due to embolism of unspecified middle cerebral artery
I63.421	Cerebral infarction due to embolism of right anterior cerebral artery
I63.422	Cerebral infarction due to embolism of left anterior cerebral artery
I63.423	Cerebral infarction due to embolism of bilateral anterior cerebral arteries
I63.429	Cerebral infarction due to embolism of unspecified anterior cerebral artery
I63.431	Cerebral infarction due to embolism of right posterior cerebral artery
I63.432	Cerebral infarction due to embolism of left posterior cerebral artery
I63.433	Cerebral infarction due to embolism of bilateral posterior cerebral arteries
I63.439	Cerebral infarction due to embolism of unspecified posterior cerebral artery
I63.441	Cerebral infarction due to embolism of right cerebellar artery
I63.442	Cerebral infarction due to embolism of left cerebellar artery
I63.443	Cerebral infarction due to embolism of bilateral cerebellar arteries
I63.449	Cerebral infarction due to embolism of unspecified cerebellar artery
I63.49	Cerebral infarction due to embolism of other cerebral artery
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I63.50	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral artery
I63.511	Cerebral infarction due to unspecified occlusion or stenosis of right middle cerebral
TC2 F12	artery
I63.512	Cerebral infarction due to unspecified occlusion or stenosis of left middle cerebral artery
I63.513	Cerebral infarction due to unspecified occlusion or stenosis of bilateral middle cerebral arteries
I63.519	Cerebral infarction due to unspecified occlusion or stenosis of unspecified middle
100.015	cerebral artery
I63.521	Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery
I63.522	Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery
I63.523	Cerebral infarction due to unspecified occlusion or stenosis of bilateral anterior
	cerebral arteries
I63.529	Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery
I63.531	Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery
I63.532	Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral
	artery
I63.533	Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral arteries



I63.539	Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery
I63.541	Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery
I63.542	Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery
I63.543	Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries
I63.549	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery
I63.59	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery
I63.6	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic
I63.81	Other cerebral infarction due to occlusion or stenosis of small artery
I63.89	Other cerebral infarction
I63.9	Cerebral infarction, unspecified
R00.2	Palpitations
R42	Dizziness and giddiness
R55	Syncope and collapse
Z86.73	Personal history of transient ischemic attack (TIA), and cerebral infarction without residual deficits [Covered for evaluation of members with suspected atrial fibrillation as a cause of cryptogenic stroke who have a nondiagnostic Holter monitor]

II. Applicable Procedure Codes Mobile cardiovascular telemetry (MCT)

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
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
G2066	Interrogation device evaluation(s), (remote) up to 30 days; implantable cardiovascular physiologic monitor system, implantable loop recorder system, or subcutaneous cardiac rhythm monitor system, remote data acquisition(s), receipt of transmissions and technician review, technical support and distribution of results

Applicable ICD-10 Diagnosis Codes

Mobile cardiovascular telemetry (MCT)



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I44.5	Left posterior fascicular block
I44.60	Unspecified fascicular block
I44.69	Other fascicular block
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I63.239	Cerebral infarction due to unspecified occlusion or stenosis of unspecified carotid artery



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 I63.449 Cerebral infarction due to embolism of unspecified cerebellar artery I63.49 Cerebral infarction due to embolism of other cerebral artery I63.50 Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral 	I63.442	Cerebral infarction due to embolism of left cerebellar artery
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I63.50 Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral	I63.449	Cerebral infarction due to embolism of unspecified cerebellar artery
·	I63.49	Cerebral infarction due to embolism of other cerebral artery
	I63.50	·



I63.511	Cerebral infarction due to unspecified occlusion or stenosis of right middle cerebral artery	
I63.512	Cerebral infarction due to unspecified occlusion or stenosis of left middle cerebral artery	
I63.513	Cerebral infarction due to unspecified occlusion or stenosis of bilateral middle cerebral arteries	
I63.519	Cerebral infarction due to unspecified occlusion or stenosis of unspecified middle cerebral artery	
I63.521	Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery	
I63.522	Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery	
I63.523	Cerebral infarction due to unspecified occlusion or stenosis of bilateral anterior cerebral arteries	
I63.529	Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery	
I63.531	Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery	
I63.532	Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery	
I63.533	Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral arteries	
I63.539	Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery	
I63.541	Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery	
I63.542	Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery	
I63.543	Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries	
I63.549	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery	
I63.59	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery	
I63.6	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic	
I63.81	Other cerebral infarction due to occlusion or stenosis of small artery	
I63.89	Other cerebral infarction	
I63.9	Cerebral infarction, unspecified	
R00.0	Tachycardia, unspecified	
R00.1	Bradycardia, unspecified	
R00.2	Palpitations	
R42	Dizziness and giddiness [light-headedness]	
R55	Syncope and collapse [pre-syncope]	
Z86.73	Personal history of transient ischemic attack (TIA), and cerebral infarction without residual deficits [Covered for evaluation of members with suspected atrial fibrillation as a cause of cryptogenic stroke who have a nondiagnostic Holter monitor]	

III. Applicable Procedure Codes



Implantable loop recorder (e.g., Reveal Insertable Loop Recorder [Medtronic])

33285	Insertion, subcutaneous cardiac rhythm monitor, including programming	
33286	Removal, subcutaneous cardiac rhythm monitor	
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	
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	
93297	Interrogation device evaluation(s), (remote) up to 30 days; implantable cardiovascular physiologic 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	
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	

Applicable ICD-10 Diagnosis Codes Implantable loop recorder (e.g., Reveal Insertable Loop Recorder [Medtronic])

G40.89 Other seizures G40.909 Epilepsy, unspecified, not intractable, without status epilepticus G45.0 Vertebro-basilar artery syndrome G45.1 Carotid artery syndrome (hemispheric) G45.2 Multiple and bilateral precerebral artery syndromes G45.3 Amaurosis fugax G45.8 Other transient cerebral ischemic attacks and related syndromes G45.9 Transient cerebral ischemic attack, unspecified I25.2 Old myocardial infarction I47.0 Re-entry ventricular arrhythmia I47.1 Supraventricular tachycardia I47.2 Ventricular tachycardia I47.9 Paroxysmal tachycardia, unspecified I48.0 Paroxysmal atrial fibrillation I48.11 Longstanding persistent atrial fibrillation I48.19 Other persistent atrial fibrillation		
G45.0 Vertebro-basilar artery syndrome G45.1 Carotid artery syndrome (hemispheric) G45.2 Multiple and bilateral precerebral artery syndromes G45.3 Amaurosis fugax G45.8 Other transient cerebral ischemic attacks and related syndromes G45.9 Transient cerebral ischemic attack, unspecified I25.2 Old myocardial infarction I47.0 Re-entry ventricular arrhythmia I47.1 Supraventricular tachycardia I47.2 Ventricular tachycardia I47.9 Paroxysmal tachycardia, unspecified I48.0 Paroxysmal atrial fibrillation I48.11 Longstanding persistent atrial fibrillation	G40.89	Other seizures
G45.1 Carotid artery syndrome (hemispheric) G45.2 Multiple and bilateral precerebral artery syndromes G45.3 Amaurosis fugax G45.8 Other transient cerebral ischemic attacks and related syndromes G45.9 Transient cerebral ischemic attack, unspecified I25.2 Old myocardial infarction I47.0 Re-entry ventricular arrhythmia I47.1 Supraventricular tachycardia I47.2 Ventricular tachycardia I47.9 Paroxysmal tachycardia, unspecified I48.0 Paroxysmal atrial fibrillation I48.11 Longstanding persistent atrial fibrillation	G40.909	Epilepsy, unspecified, not intractable, without status epilepticus
G45.2 Multiple and bilateral precerebral artery syndromes G45.3 Amaurosis fugax G45.8 Other transient cerebral ischemic attacks and related syndromes G45.9 Transient cerebral ischemic attack, unspecified I25.2 Old myocardial infarction I47.0 Re-entry ventricular arrhythmia I47.1 Supraventricular tachycardia I47.2 Ventricular tachycardia I47.9 Paroxysmal tachycardia, unspecified I48.0 Paroxysmal atrial fibrillation I48.11 Longstanding persistent atrial fibrillation	G45.0	Vertebro-basilar artery syndrome
G45.3 Amaurosis fugax G45.8 Other transient cerebral ischemic attacks and related syndromes G45.9 Transient cerebral ischemic attack, unspecified I25.2 Old myocardial infarction I47.0 Re-entry ventricular arrhythmia I47.1 Supraventricular tachycardia I47.2 Ventricular tachycardia I47.9 Paroxysmal tachycardia, unspecified I48.0 Paroxysmal atrial fibrillation I48.11 Longstanding persistent atrial fibrillation	G45.1	Carotid artery syndrome (hemispheric)
G45.8 Other transient cerebral ischemic attacks and related syndromes G45.9 Transient cerebral ischemic attack, unspecified I25.2 Old myocardial infarction I47.0 Re-entry ventricular arrhythmia I47.1 Supraventricular tachycardia I47.2 Ventricular tachycardia I47.9 Paroxysmal tachycardia, unspecified I48.0 Paroxysmal atrial fibrillation I48.11 Longstanding persistent atrial fibrillation	G45.2	Multiple and bilateral precerebral artery syndromes
G45.9 Transient cerebral ischemic attack, unspecified I25.2 Old myocardial infarction I47.0 Re-entry ventricular arrhythmia I47.1 Supraventricular tachycardia I47.2 Ventricular tachycardia I47.9 Paroxysmal tachycardia, unspecified I48.0 Paroxysmal atrial fibrillation I48.11 Longstanding persistent atrial fibrillation	G45.3	Amaurosis fugax
I25.2 Old myocardial infarction I47.0 Re-entry ventricular arrhythmia I47.1 Supraventricular tachycardia I47.2 Ventricular tachycardia I47.9 Paroxysmal tachycardia, unspecified I48.0 Paroxysmal atrial fibrillation I48.11 Longstanding persistent atrial fibrillation	G45.8	Other transient cerebral ischemic attacks and related syndromes
I47.0 Re-entry ventricular arrhythmia I47.1 Supraventricular tachycardia I47.2 Ventricular tachycardia I47.9 Paroxysmal tachycardia, unspecified I48.0 Paroxysmal atrial fibrillation I48.11 Longstanding persistent atrial fibrillation	G45.9	Transient cerebral ischemic attack, unspecified
I47.1 Supraventricular tachycardia I47.2 Ventricular tachycardia I47.9 Paroxysmal tachycardia, unspecified I48.0 Paroxysmal atrial fibrillation I48.11 Longstanding persistent atrial fibrillation	I25.2	Old myocardial infarction
I47.2 Ventricular tachycardia I47.9 Paroxysmal tachycardia, unspecified I48.0 Paroxysmal atrial fibrillation I48.11 Longstanding persistent atrial fibrillation	I47.0	Re-entry ventricular arrhythmia
I47.9 Paroxysmal tachycardia, unspecified I48.0 Paroxysmal atrial fibrillation I48.11 Longstanding persistent atrial fibrillation	I47.1	Supraventricular tachycardia
I48.0 Paroxysmal atrial fibrillation I48.11 Longstanding persistent atrial fibrillation	I47.2	Ventricular tachycardia
I48.11 Longstanding persistent atrial fibrillation	I47.9	Paroxysmal tachycardia, unspecified
	I48.0	Paroxysmal atrial fibrillation
I48.19 Other persistent atrial fibrillation	I48.11	Longstanding persistent atrial fibrillation
	I48.19	Other persistent atrial fibrillation
I48.20 Chronic atrial fibrillation, unspecified	I48.20	Chronic atrial fibrillation, unspecified
I48.21 Permanent atrial fibrillation	I48.21	Permanent atrial fibrillation



I48.3	Typical atrial flutter	
I48.4	Atypical atrial flutter	
I48.9	Jnspecified atrial fibrillation and atrial flutter	
I48.91	Unspecified atrial fibrillation	
I48.92	Unspecified atrial flutter	
I49.01	Ventricular fibrillation	
I49.02	Ventricular flutter	
I49.1	Atrial premature depolarization	
I49.2	Junctional premature depolarization	
I49.3	Ventricular premature depolarization	
I49.40	Unspecified premature depolarization	
I49.49	Other premature depolarization	
I49.5	Sick sinus syndrome	
I49.8	Other specified cardiac arrhythmias	
I49.9	Cardiac arrhythmia, unspecified	
I50.1	Left ventricular failure	
I50.20	Unspecified systolic (congestive) heart failure	
I50.21	Acute systolic (congestive) heart failure	
I50.22	Chronic systolic (congestive) heart failure	
I50.23	Acute on chronic systolic (congestive) heart failure	
I50.30	Unspecified diastolic (congestive) heart failure	
I50.31	Acute diastolic (congestive) heart failure	
I50.32	Chronic diastolic (congestive) heart failure	
I50.33	Acute on chronic diastolic (congestive) heart failure	
I50.40	Unspecified combined systolic (congestive) and diastolic (congestive) heart failure	
I50.41	Acute combined systolic (congestive) and diastolic (congestive) heart failure	
I50.42	Chronic combined systolic (congestive) and diastolic (congestive) heart failure	
I50.43	Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure	
150.9	Heart failure, unspecified	
163.00	Cerebral infarction due to thrombosis of unspecified precerebral artery	
I63.011	Cerebral infarction due to thrombosis of right vertebral artery	
I63.012	Cerebral infarction due to thrombosis of left vertebral artery	
I63.013	Cerebral infarction due to thrombosis of bilateral vertebral arteries	
I63.019	Cerebral infarction due to thrombosis of unspecified vertebral artery	
I63.02	Cerebral infarction due to thrombosis of basilar artery	
I63.031	Cerebral infarction due to thrombosis of right carotid artery	
I63.032	Cerebral infarction due to thrombosis of left carotid artery	
I63.033	Cerebral infarction due to thrombosis of bilateral carotid arteries	



I63.039	Comply information due to thrombook of unapposition compating artemy
	Cerebral infarction due to thrombosis of unspecified carotid artery
I63.09	Cerebral infarction due to thrombosis of other precerebral artery
I63.10	Cerebral infarction due to embolism of unspecified precerebral artery
I63.11	Cerebral infarction due to embolism of vertebral artery
I63.111	Cerebral infarction due to embolism of right vertebral artery
I63.112	Cerebral infarction due to embolism of left vertebral artery
I63.113	Cerebral infarction due to embolism of bilateral vertebral arteries
I63.119	Cerebral infarction due to embolism of unspecified vertebral artery
I63.12	Cerebral infarction due to embolism of basilar artery
I63.131	Cerebral infarction due to embolism of right carotid artery
I63.132	Cerebral infarction due to embolism of left carotid artery
I63.133	Cerebral infarction due to embolism of bilateral carotid arteries
I63.139	Cerebral infarction due to embolism of unspecified carotid artery
I63.19	Cerebral infarction due to embolism of other precerebral artery
I63.20	Cerebral infarction due to unspecified occlusion or stenosis of unspecified precerebral arteries
I63.211	Cerebral infarction due to unspecified occlusion or stenosis of right vertebral artery
I63.212	Cerebral infarction due to unspecified occlusion or stenosis of left vertebral artery
I63.213	Cerebral infarction due to unspecified occlusion or stenosis of bilateral vertebral arteries
I63.219	Cerebral infarction due to unspecified occlusion or stenosis of unspecified vertebral artery
I63.22	Cerebral infarction due to unspecified occlusion or stenosis of basilar arteries
I63.231	Cerebral infarction due to unspecified occlusion or stenosis of right carotid arteries
I63.232	Cerebral infarction due to unspecified occlusion or stenosis of left carotid arteries
I63.233	Cerebral infarction due to unspecified occlusion or stenosis of bilateral carotid arteries
I63.239	Cerebral infarction due to unspecified occlusion or stenosis of unspecified carotid artery
I63.29	Cerebral infarction due to unspecified occlusion or stenosis of other precerebral arteries
I63.30	Cerebral infarction due to thrombosis of unspecified cerebral artery
I63.311	Cerebral infarction due to thrombosis of right middle cerebral artery
I63.312	Cerebral infarction due to thrombosis of left middle cerebral artery
I63.313	Cerebral infarction due to thrombosis of bilateral middle cerebral arteries
I63.319	Cerebral infarction due to thrombosis of unspecified middle cerebral artery
I63.321	Cerebral infarction due to thrombosis of right anterior cerebral artery
I63.322	Cerebral infarction due to thrombosis of left anterior cerebral artery
I63.323	Cerebral infarction due to thrombosis of bilateral anterior cerebral arteries
I63.329	Cerebral infarction due to thrombosis of unspecified anterior cerebral artery
I63.331	Cerebral infarction due to thrombosis of right posterior cerebral artery
I63.332	Cerebral infarction due to thrombosis of left posterior cerebral artery



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I63.531	Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery
I63.532	Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery
I63.533	Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral arteries
I63.539	Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery
I63.541	Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery
I63.542	Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery
I63.543	Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries
I63.549	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery
I63.59	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery
I63.6	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic
I63.81	Other cerebral infarction due to occlusion or stenosis of small artery
I63.89	Other cerebral infarction
I63.9	Cerebral infarction, unspecified
I65.01	Occlusion and stenosis of right vertebral artery
I65.02	Occlusion and stenosis of left vertebral artery
I65.03	Occlusion and stenosis of bilateral vertebral arteries
I65.09	Occlusion and stenosis of unspecified vertebral artery
I65.1	Occlusion and stenosis of basilar artery
I65.21	Occlusion and stenosis of right carotid artery
I65.22	Occlusion and stenosis of left carotid artery
I65.23	Occlusion and stenosis of bilateral carotid arteries
I65.29	Occlusion and stenosis of unspecified carotid artery
I65.8	Occlusion and stenosis of other precerebral arteries
I65.9	Occlusion and stenosis of unspecified precerebral artery
I66.01	Occlusion and stenosis of right middle cerebral artery
I66.02	Occlusion and stenosis of left middle cerebral artery
I66.03	Occlusion and stenosis of bilateral middle cerebral arteries
I66.09	Occlusion and stenosis of unspecified middle cerebral artery
I66.11	Occlusion and stenosis of right anterior cerebral artery
I66.12	Occlusion and stenosis of left anterior cerebral artery
I66.13	Occlusion and stenosis of bilateral anterior cerebral arteries
I66.19	Occlusion and stenosis of unspecified anterior cerebral artery
I66.21	Occlusion and stenosis of right posterior cerebral artery
I66.22	Occlusion and stenosis of left posterior cerebral artery
I66.23	Occlusion and stenosis of bilateral posterior cerebral arteries
I66.29	Occlusion and stenosis of unspecified posterior cerebral artery
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I66.3	Occlusion and stenosis of cerebellar arteries
I66.8	Occlusion and stenosis of other cerebral arteries
I66.9	Occlusion and stenosis of unspecified cerebral artery
R00.2	Palpitations
R42	Dizziness and giddiness
R55	Syncope and collapse
R56.9	Unspecified convulsions
R94.31	Abnormal electrocardiogram [ECG] [EKG]
Z86.73	Personal history of transient ischemic attack (TIA), and cerebral infarction without residual deficits

IV. Applicable Procedure Codes

Long-term (> 48 hours) external ECG monitoring by continuous rhythm recording and storage (e.g., Zio Patch)

External electrocardiographic recording for more than 48 hours up to 7 days by continuous rhythm recording and storage; includes recording, scanning analysis with report, review and interpretation
External electrocardiographic recording for more than 48 hours up to 7 days by continuous rhythm recording and storage; recording (includes connection and initial recording)
External electrocardiographic recording for more than 48 hours up to 7 days by continuous rhythm recording and storage; scanning analysis with report
External electrocardiographic recording for more than 48 hours up to 7 days by continuous rhythm recording and storage; review and interpretation
External electrocardiographic recording for more than 7 days up to 15 days by continuous rhythm recording and storage; includes recording, scanning analysis with report, review and interpretation
External electrocardiographic recording for more than 7 days up to 15 days by continuous rhythm recording and storage; recording (includes connection and initial recording)
External electrocardiographic recording for more than 7 days up to 15 days by continuous rhythm recording and storage; scanning analysis with report
External electrocardiographic recording for more than 7 days up to 15 days by continuous rhythm recording and storage; review and interpretation

Applicable ICD-10 Diagnosis Codes

Long-term (> 48 hours) external ECG monitoring by continuous rhythm recording and storage (e.g., Zio Patch)



I44.0	Atrioventricular block, first degree	
I44.1	Atrioventricular block, second degree	
I44.2	Atrioventricular block, complete	
I44.30	Unspecified atrioventricular block	
I44.39	Other atrioventricular block	
I44.4	Left anterior fascicular block	
I44.5	Left posterior fascicular block	
I44.60	Unspecified fascicular block	
I44.69	Other fascicular block	
I44.7	Left bundle-branch block, unspecified	
I45.0	Right fascicular block	
I45.10	Unspecified right bundle-branch block	
I45.19	Other right bundle-branch block	
I45.2	Bifascicular block	
I45.3	Trifascicular block	
I45.4	Nonspecific intraventricular block	
I45.5	Other specified heart block	
I45.6	Pre-excitation syndrome	
I45.81	Long QT syndrome	
I45.89	Other specified conduction disorders	
I45.9	Conduction disorder, unspecified	
I47.0	Re-entry ventricular arrhythmia	
I47.1	Supraventricular tachycardia	
I47.2	Ventricular tachycardia	
I47.9	Paroxysmal tachycardia, unspecified	
R00.2	Palpitations	
R42	Dizziness and giddiness	
R55	Syncope and collapse	

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Specialty matched clinical peer review.



Revision history

DATE	REVISION
09/01/2022	Added risk-score acoustic waveform recording as investigational
12/10/2021	Removed indication to document ST segment depression for suspected ischemia
01/01/2020	Connecticare has adopted the clinical criteria of its parent corporation, EmblemHealth
	Removed MCG criteria policy-M20190034

Appendix

Short-Term High-Risk Criteria Which Require Prompt Hospitalization or Intensive Evaluation

Severe structural or coronary artery disease (heart failure, low LVEF, or previous MI)

Clinical or ECG features suggesting arrhythmic syncope

- Syncope during exertion or supine
- · Palpitations at the time of syncope
- · Family history of SCD
- Non-sustained VT
- Bifascicular-block (LBBB or RBBB combined with left anterior or left posterior fascicular block) or other intraventricular conduction abnormalities with QRS duration ≥120 ms
- Inadequate sinus bradycardia (<50 bpm) or sinoartrial block in absence of negative chronotropic medications or physical training
- Pre-excited QRS complex
- Prolonged or short QT interval
- RBBB pattern with ST-elevation in leads V1-V3 (Brugada pattern)

Negative T waves in right precordial leads, epsilon waves, and ventricular late potentials suggestive of ARVC

Important co-morbidities

- Severe anemia
- Electrolyte disturbance

Key: ARVC: arrhythmogenic right ventricular cardiomyopathy; bpm: beats per minute; LBBB: left bundle branch block; LVEF: left ventricular ejection fraction; RBBB: right bundle branch block; SCD: sudden cardiac death; VT: ventricular tachycardia.

Source: Task Force for the Diagnosis and Management of Syncope; European Society of Cardiology (ESC); European Heart Rhythm Association (EHRA); Heart Failure Association (HFA); Heart Rhythm Society (HRS), Moya A, Sutton R, Ammirati F, et al. Guidelines for the diagnosis and management of syncope (version 2009). Eur Heart J. 2009;30(21):2631-2671.