

| POLICY NUMBER | LAST REVIEW DATE | APPROVED BY |
|----------------|------------------|--------------------------------|
| MG.MM.DM.18cv2 | 12/10/2021 | 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™ IL 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 Appendix) 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 nondiagnostic 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 |
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| 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 |



| 145.6 Pre-excitation syndrome 145.81 Long QT syndrome 145.89 Other specified conduction disorders 145.9 Conduction disorder, unspecified 147.0 Re-entry ventricular arrhythmia 147.1 Supraventricular tachycardia 147.9 Paroxysmal tarchycardia, unspecified 148.0 Paroxysmal atrial fibrillation 148.11 Longstanding persistent atrial fibrillation 148.12 Other persistent atrial fibrillation 148.13 Other persistent atrial fibrillation 148.20 Chronic atrial fibrillation 148.21 Permanent atrial fibrillation 148.22 Typical atrial flutter 148.3 Typical atrial flutter 148.4 Atypical atrial flutter 148.91 Unspecified atrial fibrillation 149.92 Ventricular flutter 149.10 Ventricular flutter 149.11 Atrial premature depolarization 149.22 Junctional premature depolarization 149.3 Ventricular premature depolarization 149.40 Unspecified premature dep | I45.5 | Other specified heart block |
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| | I63.333 | Cerebral infarction due to thrombosis of bilateral posterior cerebral arteries |
| I63.341 Cerebral infarction due to thrombosis of right cerebellar artery | 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 |
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| 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 |
| 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 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 |
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| 760 500 | |
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| I63.533 | Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral arteries |
| 163.539 | 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 (effective 01/01/2020) |



Applicable ICD-10 Diagnosis Codes Mobile cardiovascular telemetry (MCT)

| 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 artery |
| 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 |
| 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 |
| 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 | |
| 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 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 | /ertebro-basilar artery syndrome | |
| G45.1 | Carotid artery syndrome (hemispheric) | |
| G45.2 | fultiple 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 | |
|---------|--|--|
| I48.20 | Chronic atrial fibrillation, unspecified | |
| I48.21 | Permanent atrial fibrillation | |
| I48.3 | Typical atrial flutter | |
| I48.4 | Atypical atrial flutter | |
| I48.9 | Unspecified 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 | |
| I50.9 | Heart failure, 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 | |



| 162.024 | Controlling attended to the tendence of the controlling |
|---------|--|
| 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 |
| 163.039 | 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 |
| I63.11 | 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 |
| 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 |
| 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 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 | |
| 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 | |
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| 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 | |
| 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)

| 93241 | 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 | |
|-------|--|--|
| 93242 | xternal electrocardiographic recording for more than 48 hours up to 7 days by ontinuous rhythm recording and storage; recording (includes connection and initial ecording) | |
| 93243 | External electrocardiographic recording for more than 48 hours up to 7 days by continuous rhythm recording and storage; scanning analysis with report | |
| 93244 | External electrocardiographic recording for more than 48 hours up to 7 days by continuous rhythm recording and storage; review and interpretation | |
| 93245 | 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 | |
| 93246 | External electrocardiographic recording for more than 7 days up to 15 days by continuous rhythm recording and storage; recording (includes connection and initial recording) | |
| 93247 | External electrocardiographic recording for more than 7 days up to 15 days by continuous rhythm recording and storage; scanning analysis with report | |
| 93248 | 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.