

CLINICAL MEDICAL POLICY		
Policy Name:	Ambulatory Electrocardiograph (AECG) Monitoring (L39490)	
Policy Number:	MP-101-MC-PA	
Responsible Department(s):	Medical Management	
Provider Notice/Issue Date:	03/01/2025; 03/01/2024	
Effective Date:	04/01/2025; 04/01/2024	
Next Annual Review:	01/2026	
Revision Date:	01/15/2025; 01/17/2024	
Products:	Pennsylvania Medicare Assured	
Application:	All participating and nonparticipating practitioners and facilities unless contractually precluded	
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Policy History

Date	Activity
04/01/2025	Provider Effective date
01/15/2025	QI/UM Committee review
01/15/2025	Annual Review: No changes to clinical criteria. Updated CMS hyperlinks and
	'Reference Sources' section. Removed HCPCS code G2066, per CMS guidance.
04/01/2024	Policy Effective date
01/17/2024	QI/UM Committee approval
01/17/2024	Initial Policy developed

Disclaimer

Highmark WholecaresM medical policy is intended to serve only as a general reference resource regarding coverage for the services described. This policy does not constitute medical advice and is not intended to govern or otherwise influence medical decisions.

Policy Statement

Highmark WholecaresM may provide coverage under the medical-surgical benefits of the Company's Medicare products for medically necessary ambulatory electrocardiograph (AECG) monitoring.

This policy is designed to address medical necessity guidelines that are appropriate for the majority of individuals with a particular disease, illness or condition. Each person's unique clinical circumstances warrant individual consideration, based upon review of applicable medical records.

Procedures

- 1. Please review the specific National Coverage Determination (NCD), Local Coverage Determination (LCD), and/or Local Coverage Article (LCA) information, as well as other CMS sources, using the links below.
- 2. Post-payment Audit Statement

The medical record must include documentation that reflects the medical necessity criteria and is subject to audit by Highmark WholecaresM at any time pursuant to the terms of your provider agreement.

Place of Service
 Please refer to the NCD, LCD, LCA, or CMS guidelines for the place of service for AECG.

Coverage Determination and Links

Highmark WholecaresM follows the coverage determinations made by CMS as outlined in either the NCD or state-specific LCD/LCA.

CMS Link

CMS Website

NCD/LCD Links

- There are no current NCDs related to this topic.
 - o Related NCD: <u>Electrocardiographic Services (20.15)</u>
- LCD: Ambulatory Electrocardiograph (AECG) Monitoring (L39490)

Article Link

• LCA: Billing and Coding: Ambulatory Electrocardiograph (AECG) Monitoring (A59268)

Reference Sources

Centers for Medicare and Medicaid Services (CMS). National Coverage Determination (NCD) Electrocardiographic Services (20.15). Effective date August 26, 2004. Implementation date December 10, 2004. Accessed on December 21, 2024.

Centers for Medicare and Medicaid Services (CMS). Local Coverage Determination (LCD) Ambulatory Electrocardiograph (AECG) Monitoring (L39490). Original Effective date June 11, 2023. Accessed on December 21, 2024.

Centers for Medicare and Medicaid Services (CMS). Local Coverage Article (LCA) Billing and Coding: Ambulatory Electrocardiograph (AECG) Monitoring (A59268). Original Effective date June 11, 2023. Revision Effective date January 1, 2024. Accessed on December 21, 2024.

Coding Requirements

Procedure Codes

CPT/HCPCS	Description
Code	
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
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
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	External electrocardiographic recording for more than 48 hours up to 7 days by continuous rhythm recording and storage; recording (includes connection and initial recording)
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
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
93298	Interrogation device evaluation(s), (remote) up to 30 days; subcutaneous cardiac
	rhythm monitor system, including analysis of recorded heart rhythm data, analysis,
	review(s) and report(s) by a physician or other qualified health care professional

Diagnosis Codes

ICD-10 Code	Description
G45.3	Amaurosis fugax
G45.8	Other transient cerebral ischemic attacks and related syndromes
G45.9	Transient cerebral ischemic attack, unspecified
G90.01	Carotid sinus syncope
120.0	Unstable angina
120.1	Angina pectoris with documented spasm
120.81	Angina pectoris with coronary microvascular dysfunction
120.89	Other forms of angina pectoris
121.01	ST elevation (STEMI) myocardial infarction involving left main coronary artery
121.02	ST elevation (STEMI) myocardial infarction involving left anterior descending coronary
	artery
121.09	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall
121.11	ST elevation (STEMI) myocardial infarction involving right coronary artery
121.19	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall
121.21	ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery
121.29	ST elevation (STEMI) myocardial infarction involving other sites
121.4	Non-ST elevation (NSTEMI) myocardial infarction
I21.A1	Myocardial infarction type 2
I21.A9	Other myocardial infarction type

I21.B	Myocardial infarction with coronary microvascular dysfunction
122.0	Subsequent ST elevation (STEMI) myocardial infarction of anterior wall
122.1	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall
122.2	Subsequent non-ST elevation (NSTEMI) myocardial infarction
122.8	Subsequent ST elevation (STEMI) myocardial infarction of other sites
123.7	Postinfarction angina
124.81	Acute coronary microvascular dysfunction
124.89	Other forms of acute ischemic heart disease
125.10	Atherosclerotic heart disease of native coronary artery without angina pectoris
125.110	Atherosclerotic heart disease of native coronary artery with unstable angina pectoris
125.111	Atherosclerotic heart disease of native coronary artery with angina pectoris with
123.111	documented spasm
125.112	Atherosclerotic heart disease of native coronary artery with refractory angina pectoris
125.118	Atherosclerotic heart disease of native coronary artery with other forms of angina
	pectoris
125.2	Old myocardial infarction
125.3	Aneurysm of heart
125.41	Coronary artery aneurysm
125.5	Ischemic cardiomyopathy
125.6	Silent myocardial ischemia
125.710	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina
	pectoris
125.711	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris
	with documented spasm
125.712	Atherosclerosis of autologous vein coronary artery bypass graft(s) with refractory angina
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125.718	Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris
125.720	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unstable angina
123.720	pectoris
125.721	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris
	with documented spasm
125.722	Atherosclerosis of autologous artery coronary artery bypass graft(s) with refractory
	angina pectoris
125.728	Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of
125 720	angina pectoris
125.730	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unstable
125.731	angina pectoris Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina
143./31	pectoris with documented spasm
125.732	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with
	refractory angina pectoris
125.738	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with other
	forms of angina pectoris
125.750	Atherosclerosis of native coronary artery of transplanted heart with unstable angina

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144.39 Other atrioventricular block 144.4 Left anterior fascicular block		· · · · · · · · · · · · · · · · · · ·
144.4 Left anterior fascicular block		
	144.5	Left posterior fascicular block

144.69	Other fascicular block
145.0	Right fascicular block
I45.19	Other right bundle-branch block
145.2	Bifascicular block
145.3	Trifascicular block
145.5	Other specified heart block
145.6	Pre-excitation syndrome
145.81	Long QT syndrome
145.89	Other specified conduction disorders
146.2	Cardiac arrest due to underlying cardiac condition
146.8	Cardiac arrest due to other underlying condition
147.0	Re-entry ventricular arrhythmia
147.11	Inappropriate sinus tachycardia, so stated
147.19	Other supraventricular tachycardia
147.21	Torsades de pointes
147.29	Other ventricular tachycardia
148.0	Paroxysmal atrial fibrillation
148.11	Longstanding persistent atrial fibrillation
148.19	Other persistent atrial fibrillation
148.20	Chronic atrial fibrillation, unspecified
148.21	Permanent atrial fibrillation
148.3	Typical atrial flutter
148.4	Atypical atrial flutter
148.91	Unspecified atrial fibrillation
148.92	Unspecified atrial flutter
149.01	Ventricular fibrillation
149.02	Ventricular flutter
149.1	Atrial premature depolarization
149.2	Junctional premature depolarization
149.3	Ventricular premature depolarization
149.49	Other premature depolarization
149.5	Sick sinus syndrome
149.8	Other specified cardiac arrhythmias
I5A	Non-ischemic myocardial injury (non-traumatic)
163.9*	Cerebral infarction, unspecified
197.120	Postprocedural cardiac arrest following cardiac surgery
197.121	Postprocedural cardiac arrest following other surgery
197.190	Other postprocedural cardiac functional disturbances following cardiac surgery
197.191	Other postprocedural cardiac functional disturbances following other surgery
Q20.3	Discordant ventriculoarterial connection
Q20.5	Discordant atrioventricular connection
Q20.8	Other congenital malformations of cardiac chambers and connections
	Other congenital manormations of cardiac chambers and connections

Q21.11	Secundum atrial septal defect
Q21.12	Patent foramen ovale
Q21.13	Coronary sinus atrial septal defect
Q21.21	Partial atrioventricular septal defect
Q21.22	Transitional atrioventricular septal defect
Q21.23	Complete atrioventricular septal defect
Q21.3	Tetralogy of Fallot
Q24.6	Congenital heart block
R00.0	Tachycardia, unspecified
R00.1	Bradycardia, unspecified
R00.2	Palpitations
R00.8	Other abnormalities of heart beat
R06.00	Dyspnea, unspecified
R06.01	Orthopnea
R06.02	Shortness of breath
R06.09	Other forms of dyspnea
R07.1	Chest pain on breathing
R07.2	Precordial pain
R07.89	Other chest pain
R07.9	Chest pain, unspecified
R10.13	Epigastric pain
R40.4	Transient alteration of awareness
R42	Dizziness and giddiness
R55	Syncope and collapse
Z86.73	Personal history of transient ischemic attack (TIA), and cerebral infarction without residual deficits
Z86.74	Personal history of sudden cardiac arrest

^{*}ICD-10-CM code I63.9 should be used to report cryptogenic stroke.

Informational

Table of Various AECG Monitors

Type of Monitor	Description	CPT Codes
External ECG (Holter)	and the second s	93224- 93227
Extended or long-term external ECG	, , , , , , , , , , , , , , , , , , , ,	93241- 93244
Extended or long-term external ECG	recording and storage	93245- 93248
External patient-activated/auto- activated ECG rhythm derived event recording (Event monitors)	Monitors with symptom-related memory loop with Remote download capability or 24-hour attended monitoring. May be worn for up to 30 days.	93268- 93272

External mobile cardiovascular telemetry monitors	Concurrent computerized real-time data analysis and greater than 24 hours of accessible ECG data storage with ECG-triggered and patient-selected events transmitted to a remote attended surveillance center. May be worn for up to 30 days	
Subcutaneous Cardiac Rhythm Monitor (SCRM)	Implanted, continuous recording that is patient or rhythm activated. The recording is transmitted for delayed interpretation and/or is interpreted by a 24- hour attendant surveillance office in real time.	93298

Reimbursement

Participating facilities will be reimbursed per their Highmark Wholecare^{5M} contract.