CMS Manual System	Department of Health & Human Services (DHHS)
Pub 100-04 Medicare Claims Processing	Centers for Medicare & Medicaid Services (CMS)
Transmittal 12396	Date: December 7, 2023
	Change Request 13438

SUBJECT: Update to the Internet Only Manual (IOM) Publication (Pub.) 100-04, Chapter 32 Sections 320.3.3 and 370.1 for Coding Revisions to the National Coverage Determinations (NCDs)-April 2024 Change Request (CR) 13390

I. SUMMARY OF CHANGES: The purpose of this Change Request (CR) is to make updates to chapter 32, sections 320.3.3 and 370.1 of the Medicare Claims Processing Manual Pub. 100-04 to coincide with the NCD updates in CR 13390, "International Classification of Diseases, 10th Revision (ICD-10) and Other Coding Revisions to National Coverage Determinations (NCDs)-April 2024".

EFFECTIVE DATE: January 9, 2024

*Unless otherwise specified, the effective date is the date of service.

IMPLEMENTATION DATE: January 9, 2024

Disclaimer for manual changes only: The revision date and transmittal number apply only to red italicized material. Any other material was previously published and remains unchanged. However, if this revision contains a table of contents, you will receive the new/revised information only, and not the entire table of contents.

II. CHANGES IN MANUAL INSTRUCTIONS: (N/A if manual is not updated) R=REVISED, N=NEW, D=DELETED-*Only One Per Row*.

R/N/D	CHAPTER / SECTION / SUBSECTION / TITLE
R	32/320.3/320.3.3/Other
R	32/370/370.1/Coding and Claims Processing for MTWA.

III. FUNDING:

For Medicare Administrative Contractors (MACs):

The Medicare Administrative Contractor is hereby advised that this constitutes technical direction as defined in your contract. CMS does not construe this as a change to the MAC Statement of Work. The contractor is not obligated to incur costs in excess of the amounts allotted in your contract unless and until specifically authorized by the Contracting Officer. If the contractor considers anything provided, as described above, to be outside the current scope of work, the contractor shall withhold performance on the part(s) in question and immediately notify the Contracting Officer, in writing or by e-mail, and request formal directions regarding continued performance requirements.

IV. ATTACHMENTS:

Business Requirements Manual Instruction

Attachment - Business Requirements

Pub. 100-04 Transmittal: 12396	Date: December 7, 2023	Change Request: 13438
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SUBJECT: Update to the Internet Only Manual (IOM) Publication (Pub.) 100-04, Chapter 32 Sections 320.3.3 and 370.1 for Coding Revisions to the National Coverage Determinations (NCDs)-April 2024 Change Request (CR) 13390

EFFECTIVE DATE: January 9, 2024

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IMPLEMENTATION DATE: January 9, 2024

I. GENERAL INFORMATION

A. Background: The purpose of this Change Request (CR) is to update Pub. 100-04, Chapter 32, Sections 320.3.3 and 370.1 for the Billing Requirements of the Medicare Claims Processing manual due to NCDs 20.9.1 and 20.30 in CR 13390, International Classification of Diseases, 10th Revision (ICD-10) and Other Coding Revisions to National Coverage Determinations (NCDs)-April 2024.

In CR 13390, the Medicare contractors were advised to end date ICD-10 codes I24.8 and I47.1, effective September 30, 2023; plus, add ICD-10 codes I24.81, I24.89, I47.10, I47.11 and I47.19, effective October 1, 2023. In addition, contractors were instructed to revise the descriptor for ICD -10 code I25.112 effective October 1, 2023 in reference to NCD 20.9.1 Ventricular Assist Devices (VADs).

For NCD 20.30 Microvolt T-Wave Alternans (MTWA) contractors were advised to end date ICD-10 code I24.8 effective September 30, 2023, and add ICD-10 codes I24.81, I24.89, I21.B effective October 1, 2023.

B. Policy: This CR does not involve any changes to policy.

II. BUSINESS REQUIREMENTS TABLE

"Shall" denotes a mandatory requirement, and "should" denotes an optional requirement.

Number	Requirement	Re	Responsibility							
		A/B MAC		A/B MAC DME SI			Shared-System Maintainers			
		A	В	ННН		FISS	MCS	VMS	CWF	
					MAC					
13438.1	The Medicare contractors shall be aware of the manual updates in Pub 100-04, Chapter 32, Sections 320.3.3 and 370.1.	X	X							

III. PROVIDER EDUCATION TABLE

Number	Requirement	Re	Responsibility			
			A/	Β	DME	CEDI
			MA	AC		
					MAC	
		A	В	ННН		
	None					

IV. SUPPORTING INFORMATION

Section A: Recommendations and supporting information associated with listed requirements: N/A

[&]quot;Should" denotes a recommendation.

X-Ref	Recommendations or other supporting information:
Requirement	
Number	

Section B: All other recommendations and supporting information: N/A

V. CONTACTS

Post-Implementation Contact(s): Contact your Contracting Officer's Representative (COR).

VI. FUNDING

Section A: For Medicare Administrative Contractors (MACs):

The Medicare Administrative Contractor is hereby advised that this constitutes technical direction as defined in your contract. CMS does not construe this as a change to the MAC Statement of Work. The contractor is not obligated to incur costs in excess of the amounts allotted in your contract unless and until specifically authorized by the Contracting Officer. If the contractor considers anything provided, as described above, to be outside the current scope of work, the contractor shall withhold performance on the part(s) in question and immediately notify the Contracting Officer, in writing or by e-mail, and request formal directions regarding continued performance requirements.

ATTACHMENTS: 0

Medicare Claims Processing Manual

Chapter 32 – Billing Requirements for Special Services

Table of Contents

(Rev. 12396; Issued: 12-07-23)

320 - Artificial Hearts and Related Devices

320.1 – Coding Requirements for Artificial Hearts Furnished Before May 1, 2008

320.2 - Coding Requirements for Artificial Hearts Furnished After May 1, 2008

320.3 – Ventricular Assist Devices (VADs)

320.3.1 – Postcardiotomy

320.3.2 - Bridge- to-Transplantation (BTT)

320.3.3 – *Other*

<u>320.3.4 – Replacement Accessories and Supplies for External VADs or Any VAD</u>

(Rev. 12396; Issued: 12-07-23; Effective: 01-09-24; Implementation: 01-09-24)

All other indications for the use of VADs not otherwise listed remain non-covered, except in the context of Category B investigational device exemption clinical trials (42 CFR 405) or as a routine cost in clinical trials defined under section 310.1 of the NCD Manual.

Claims Coding

Appropriate ICD-10 diagnosis and procedure codes are included below:

ICD-10	Definition
Diagnosis Code	
109.81	Rheumatic heart failure
111.0	Hypertensive heart disease with heart failure

	Hypertensive heart and chronic kidney disease with heart failure
113.0	and stage 1 through stage 4 chronic kidney disease,
	or unspecified chronic kidney disease
	Hypertensive heart and chronic kidney disease with heart failure
113.2	and with stage 5 chronic kidney disease, or end
	stage renal disease
120.0	Unstable angina
	ST elevation (STEMI) myocardial infarction involving left main
121.01	coronary artery
	ST elevation (STEMI) myocardial infarction involving left
121.02	anterior descending coronary artery
	ST elevation (STEMI) myocardial infarction involving
121.09	other coronary artery of anterior wall
	ST elevation (STEMI) myocardial infarction involving
121.11	right coronary artery
	ST elevation (STEMI) myocardial infarction involving
121.19	other coronary artery of inferior wall
	ST elevation (STEMI) myocardial infarction involving left
121.21	circumflex coronary artery
	ST elevation (STEMI) myocardial infarction involving
121.29	other sites

	ST elevation (STEMI) myocardial infarction of
121.3	unspecified site
121.4	Non-ST elevation (NSTEMI) myocardial infarction
	Subsequent ST elevation (STEMI) myocardial infarction
122.0	of anterior wall
	Subsequent ST elevation (STEMI) myocardial infarction
122.1	of inferior wall
	Subsequent non-ST elevation (NSTEMI) myocardial
122.2	infarction
	Subsequent ST elevation (STEMI) myocardial infarction
122.8	of other sites
	Subsequent ST elevation (STEMI) myocardial infarction of
122.9	unspecified site
	Acute coronary thrombosis not resulting in myocardial
124.0	infarction
124.1	Dressler's syndrome
124.81	Acute coronary microvascular dysfunction Effective 10/1/23
124.89	Other forms of acute ischemic heart disease Effective 10/1/23
124.9	Acute ischemic heart disease, unspecified
	Atherosclerotic heart disease of native coronary artery
125.10	without angina pectoris
	Atherosclerotic heart disease of native coronary artery
125.110	with unstable angina pectoris
	Atherosclerotic heart disease of native coronary artery with
125.111	angina pectoris with documented spasm
125.112	Atherosclerotic heart disease of native coronary artery with refractory angina pectoris

	Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris
	Atherosclerotic heart disease of native coronary artery
125.119	with unspecified angina pectoris
125.5	Ischemic cardiomyopathy
125.6	Silent myocardial ischemia

	Atherosclerosis of coronary artery bypass graft(s),
125.700	unspecified, with unstable angina pectoris
	Atherosclerosis of coronary artery bypass graft(s),
125.701	unspecified, with angina pectoris with documented spasm
	Atherosclerosis of coronary artery bypass graft(s),
125.708	unspecified, with other forms of angina pectoris
	Atherosclerosis of coronary artery bypass graft(s),
125.709	unspecified, with unspecified angina pectoris
	Atherosclerosis of autologous vein coronary artery bypass
125.710	graft(s) with unstable angina pectoris
	Atherosclerosis of autologous vein coronary artery bypass
125.711	graft(s) with angina pectoris with documented spasm
	Atherosclerosis of autologous vein coronary artery bypass
125.718	graft(s) with other forms of angina pectoris
	Atherosclerosis of autologous vein coronary artery bypass
125.719	graft(s) with unspecified angina pectoris
	Atherosclerosis of autologous artery coronary artery
125.720	bypass graft(s) with unstable angina pectoris
	Atherosclerosis of autologous artery coronary artery
125.721	bypass graft(s) with angina pectoris with documented spasm
	Atherosclerosis of autologous artery coronary artery
125.728	bypass graft(s) with other forms of angina pectoris
	Atherosclerosis of autologous artery coronary artery
125.729	bypass graft(s) with unspecified angina pectoris
	Atherosclerosis of nonautologous biological coronary artery
125.730	bypass graft(s) with unstable angina pectoris
	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris with
125.731	documented spasm
	Atherosclerosis of nonautologous biological coronary
125.738	artery bypass graft(s) with other forms of angina pectoris
	Atherosclerosis of nonautologous biological coronary
125.739	artery bypass graft(s) with unspecified angina pectoris
	Atherosclerosis of native coronary artery of transplanted
125.750	heart with unstable angina

	Atherosclerosis of native coronary artery of transplanted
125.751	heart with angina pectoris with documented spasm
	Atherosclerosis of native coronary artery of transplanted
125.758	heart with other forms of angina pectoris

	Atherosclerosis of native coronary artery of transplanted
125.759	heart with unspecified angina pectoris
	Atherosclerosis of bypass graft of coronary artery of
125.760	transplanted heart with unstable angina
125.761	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented
	spasm
125.768	Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris
	Atherosclerosis of bypass graft of coronary artery of
125.769	transplanted heart with unspecified angina pectoris
	Atherosclerosis of other coronary artery bypass graft(s)
125.790	with unstable angina pectoris
	Atherosclerosis of other coronary artery bypass graft(s)
125.791	with angina pectoris with documented spasm
	Atherosclerosis of other coronary artery bypass graft(s)
125.798	with other forms of angina pectoris
	Atherosclerosis of other coronary artery bypass graft(s)
125.799	with unspecified angina pectoris
	Atherosclerosis of coronary artery bypass graft(s) without
125.810	angina pectoris
	Atherosclerosis of native coronary artery of transplanted
125.811	heart without angina pectoris
	Atherosclerosis of bypass graft of coronary artery of
125.812	transplanted heart without angina pectoris
125.89	Other forms of chronic ischemic heart disease
125.9	Chronic ischemic heart disease, unspecified
134.0	Nonrheumatic mitral (valve) insufficiency
134.1	Nonrheumatic mitral (valve) prolapse
134.2	Nonrheumatic mitral (valve) stenosis

134.8	Other nonrheumatic mitral valve disorders
134.9	Nonrheumatic mitral valve disorder, unspecified
135.0	Nonrheumatic aortic (valve) stenosis
135.1	Nonrheumatic aortic (valve) insufficiency
135.2	Nonrheumatic aortic (valve) stenosis with insufficiency
135.8	Other nonrheumatic aortic valve disorders
135.9	Nonrheumatic aortic valve disorder, unspecified
136.0	Nonrheumatic tricuspid (valve) stenosis
136.1	Nonrheumatic tricuspid (valve) insufficiency
136.2	Nonrheumatic tricuspid (valve) stenosis with insufficiency
136.8	Other nonrheumatic tricuspid valve disorders
136.9	Nonrheumatic tricuspid valve disorder, unspecified
137.0	Nonrheumatic pulmonary valve stenosis
137.1	Nonrheumatic pulmonary valve insufficiency
L	1

	Nonrheumatic pulmonary valve stenosis with
37.2	insufficiency
37.8	Other nonrheumatic pulmonary valve disorders
37.9	Nonrheumatic pulmonary valve disorder, unspecified
38	Endocarditis, valve unspecified
	Endocarditis and heart valve disorders in diseases
39	classified elsewhere
142.0	Dilated cardiomyopathy
142.2	Other hypertrophic cardiomyopathy
142.3	Endomyocardial (eosinophilic) disease
142.4	Endocardial fibroelastosis
42.5	Other restrictive cardiomyopathy
142.6	Alcoholic cardiomyopathy
142.7	Cardiomyopathy due to drug and external agent
42.8	Other cardiomyopathies
42.9	Cardiomyopathy, unspecified
43	Cardiomyopathy in diseases classified elsewhere
46.2	Cardiac arrest due to underlying cardiac condition
146.8	Cardiac arrest due to other underlying condition

146.9	Cardiac arrest, cause unspecified
147.0	Re-entry ventricular arrhythmia
147.2	Ventricular tachycardia
147.9	Paroxysmal tachycardia, unspecified
147.10	Supraventricular tachycardia, unspecified Effective 10/1/23
147.11	Inappropriate sinus tachycardia, so stated Effective 10/1/23
147.19	Other supraventricular tachycardia Effective 10/1/23
148.0	Atrial fibrillation
148.11	Longstanding persistent atrial fibrillation
148.19	Other persistent atrial fibrillation
149.01	Ventricular fibrillation
149.02	Ventricular flutter
149.1	Atrial premature depolarization
149.2	Junctional premature depolarization
149.3	Ventricular premature depolarization
149.40	Unspecified premature depolarization
149.49	Other premature depolarization
149.5	Sick sinus syndrome
149.8	Other specified cardiac arrhythmias
149.9	Cardiac arrhythmia, unspecified
150.1	Left ventricular failure
150.20	Unspecified systolic (congestive) heart failure
150.21	Acute systolic (congestive) heart failure
150.22	Chronic systolic (congestive) heart failure
150.23	Acute on chronic systolic (congestive) heart failure
150.30	Unspecified diastolic (congestive) heart failure
150.31	Acute diastolic (congestive) heart failure
150.32	Chronic diastolic (congestive) heart failure
150.33	Acute on chronic diastolic (congestive) heart failure

	Unspecified combined systolic (congestive) and diastolic
150.40	(congestive) heart failure
	Acute combined systolic (congestive) and diastolic
150.41	(congestive) heart failure

Chronic combined systolic (congestive) and diastolic
(congestive) heart failure
Acute on chronic combined systolic (congestive) and diastolic
(congestive) heart failure
End-stage heart failure
Heart failure, unspecified
Myocarditis, unspecified
Heart disease, unspecified
Other heart disorders in diseases classified elsewhere
Postcardiotomy syndrome
Postprocedural cardiac insufficiency following cardiac
surgery
Postprocedural cardiac insufficiency following other
surgery
Postprocedural cardiac arrest following cardiac surgery
Postprocedural cardiac arrest following other surgery
Postprocedural heart failure following cardiac surgery
Postprocedural heart failure following other surgery
Other postprocedural cardiac functional disturbances
following cardiac surgery
Other postprocedural cardiac functional disturbances
following other surgery
Intraoperative cardiac arrest during cardiac surgery
Intraoperative cardiac arrest during other surgery
Other intraoperative cardiac functional disturbances
during cardiac surgery
Other intraoperative cardiac functional disturbances
during other surgery
Other intraoperative complications of the circulatory
system, not elsewhere classified
Other postprocedural complications and disorders of the circulatory system, not elsewhere classified
Endocarditis in systemic lupus erythematosus
Bradycardia, unspecified

R57.0	Cardiogenic shock
	Breakdown (mechanical) of biological heart valve graft,
T82.221A	initial encounter
	Displacement of biological heart valve graft, initial
T82.222A	encounter
T82.223A	Leakage of biological heart valve graft, initial encounter

Other mechanical complication of biological heart valve
graft, initial encounter
Breakdown (mechanical) of artificial heart, initial
encounter
Breakdown (mechanical) of infusion catheter, initial
encounter
Breakdown (mechanical) of other cardiac and vascular devices and implants, initial encounter
Displacement of artificial heart, initial encounter
Displacement of other cardiac and vascular devices and
implants, initial encounter
Displacement of unspecified cardiac and vascular devices
and implants, initial encounter
Leakage of artificial heart, initial encounter
Leakage of other cardiac and vascular devices and
implants, initial encounter
Other mechanical complication of artificial heart, initial
encounter
Other mechanical complication of other cardiac and
vascular devices and implants, initial encounter
Unspecified complication of heart transplant
Heart transplant rejection
Heart transplant failure
Heart transplant infection
Cardiac allograft vasculopathy
Other complications of heart transplant
Unspecified complication of heart-lung transplant
Heart-lung transplant rejection

T86.32	Heart-lung transplant failure
T86.33	Heart-lung transplant infection
T86.39	Other complications of heart-lung transplant
Z48.21	Encounter for aftercare following heart transplant
Z48.280	Encounter for aftercare following heart-lung transplant
Z94.1	Heart transplant status
Z94.3	Heart and lungs transplant status

This policy does not address coverage of VADs for right ventricular support, biventricular support, use in beneficiaries under the age of 18, use in beneficiaries with complex congenital heart disease, or use in beneficiaries with acute heart failure without a history of chronic heart failure. Coverage under section 1862(a) (1) (A) of the Social Security Act for VADs in these situations will be made by local Medicare Administrative Contractors (MACs) within their respective jurisdictions.

370.1 - Coding and Claims Processing for MTWA

(Rev. 12396; Issued: 12-07-23; Effective: 01-09-24; Implementation: 01-09-24)

Effective for claims with dates of service on and after March 21, 2006, MACs shall accept CPT 93025 (MTWA for assessment of ventricular arrhythmias) for MTWA diagnostic testing for the evaluation of patients at risk for SCD with the SA method of analysis only. All other methods of analysis for MTWA are non-covered.

Effective for claims with dates of service on and after January 13, 2015, MACs shall at their discretion determine coverage for CPT 93025 for MTWA diagnostic testing for the evaluation of patients at risk for SCD with methods of analysis other than SA. The –KX modifier shall be used as an attestation by the practitioner and/or provider of the service that documentation is on file verifying the MTWA was performed using a method of analysis other than SA for the evaluation of patients at risk for SCD from ventricular arrhythmias and that all other NCD criteria was met.

NOTE: The –KX modifier is NOT required on MTWA claims for the evaluation of patients at risk for SCD if the SA analysis method is used.

NOTE: This diagnosis code list/translation was approved by CMS/Coverage. It may or may not be a complete list of covered indications/diagnosis codes that are covered but should serve as a finite starting point.

As this policy indicates, individual A/B MACs within their respective jurisdictions have the discretion to make coverage determinations they deem reasonable and necessary under section 1862(a)(1)(A) of the Social Security Act. Therefore, A/B MACs may have additional covered diagnosis codes in their individual policies where contractor discretion is appropriate.

ICD-10-Codes:

ICD-10 CM	ICD-10 DX Description
I21.01	ST elevation (STEMI) myocardial infarction involving left main coronary artery
I21.02	ST elevation (STEMI) myocardial infarction involving left anterior descending coronary artery
I21.09	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall
I21.11	ST elevation (STEMI) myocardial infarction involving right coronary artery
I21.19	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall
I21.21	ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery
I21.29	ST elevation (STEMI) myocardial infarction involving other sites
I21.3	ST elevation (STEMI) myocardial infarction of unspecified site
I21.4	Non-ST elevation (NSTEMI) myocardial infarction
I21.A1	Myocardial infarction type 2
<i>121.B</i>	Myocardial infarction with coronary microvascular dysfunction
I22.0	Subsequent ST elevation (STEMI) myocardial infarction of anterior wall
I22.1	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall
I22.2	Subsequent non-ST elevation (NSTEMI) myocardial infarction
I22.8	Subsequent ST elevation (STEMI) myocardial infarction of other sites
I22.9	Subsequent ST elevation (STEMI) myocardial infarction of unspecified site
124.81	Acute coronary microvascular dysfunction
<i>124.89</i>	Other forms of acute ischemic heart disease
I24.9	Acute ischemic heart disease, unspecified
I47.0	Re-entry ventricular arrhythmia
I47.2	Ventricular tachycardia

I49.01	Ventricular fibrillation
I49.02	Ventricular flutter
R55	Syncope and collapse