

Local Coverage Article: Billing and Coding: Transthoracic Echocardiography (TTE) (A57182)

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Contractor Information

CONTRACTOR NAME	CONTRACT TYPE	CONTRACT NUMBER	JURISDICTION	STATE(S)
First Coast Service Options, Inc.	A and B MAC	09101 - MAC A	J - N	Florida
First Coast Service Options, Inc.	A and B MAC	09102 - MAC B	J - N	Florida
First Coast Service Options, Inc.	A and B MAC	09201 - MAC A	J - N	Puerto Rico Virgin Islands
First Coast Service Options, Inc.	A and B MAC	09202 - MAC B	J - N	Puerto Rico
First Coast Service Options, Inc.	A and B MAC	09302 - MAC B	J - N	Virgin Islands

Article Information

General Information

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Billing and Coding: Transthoracic Echocardiography
(TTE)

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N/A

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Retirement Date

N/A

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CMS National Coverage Policy

N/A

Article Guidance

Article Text:

This First Coast Billing and Coding Article for Local Coverage Determination (LCD) L33768 Transthoracic Echocardiography (TTE) provides billing and coding guidance for frequency limitations as well as diagnosis limitations that support diagnosis to procedure code automated denials. However, services performed for any given diagnosis must meet all of the indications and limitations stated in the LCD, the general requirements for medical necessity as stated in CMS payment policy manuals, any and all existing CMS national coverage determinations, and all Medicare payment rules.

Refer to the LCD for reasonable and necessary requirements and limitations.

The redetermination process may be utilized for consideration of services performed outside of the reasonable and necessary requirements in the LCD.

Coding Guidelines

The utilization of contrast (A9700 Supply of injectable contrast material for use in echocardiography, per study) should not be routine protocol. The patients requiring contrast should be carefully selected and the decision to use contrast should be made following a pre-contrast study and an assessment of echocardiographic data that is required.

Studies with or without contrast will be considered a single study, whether performed on the same or sequential days.

Purchased service:

A physician or group may bill and receive Part B payment, on assignment, for the technical portion of an echocardiography study. The purchasing physician or group may be the same physician or group ordering the test. The supplier performing the technical component must be enrolled in the Medicare program. The purchasing physician or group may not markup the charge from the purchase price, and must accept as full payment for the technical portion, the lowest amount when the Medicare fee schedule, the billing physician's actual charge and the supplier's net charge are compared.

Notice: It is not appropriate to bill Medicare for services that are not covered (as described by the entire LCD) as if they are covered. When billing for non-covered services, use the appropriate modifier.

Documentation Requirements

1. All documentation must be maintained in the patient's medical record and made available to the contractor upon request.
2. Every page of the record must be legible and include appropriate patient identification information (e.g., complete name, dates of service[s]). The documentation must include the legible signature of the physician or non-physician practitioner responsible for and providing the care to the patient.
3. The submitted medical record must support the use of the selected ICD-10-CM code(s). The submitted CPT/HCPCS code must describe the service performed.
4. Each service requires a formal written report with interpretation. This report should be kept on file with copies of image documentation (paper or tape) for review if requested. The quality of images obtained on any given exam is dependent on the instrumentation, the operator and the patient.
5. At a minimum, a complete study should contain M mode and/or 2D measurements of LV end diastolic diameter, LV end systolic diameter, LV wall thickness, left atrial diameter, aortic valve excursion and a qualitative description of the LV function, whenever possible given any technical limitations in a particular case. Individual echocardiographic laboratories (providers) may choose valid substitutes for these parameters such as LV volumes, ejection fraction and mass measurements.
6. A Doppler interrogation should state the modes used and should give both qualitative and quantitative information where appropriate.
7. Claims for contrast echocardiography services must be supported by documentation that conventional studies were inconclusive and there was a need for the contrast enhancement.
8. An order from the treating physician/nonphysician practitioner as required by CFR, Title 42, Volume 2, Chapter IV, Part 410.32(a) Ordering diagnostic tests.
9. If the provider of transthoracic echocardiography studies is other than the ordering/referring physician, the provider of the service must maintain hard copy documentation of test results and interpretation, along with copies of the ordering/referring physician's order for the studies. When ordering transthoracic echocardiography studies, the ordering/referring physician must state the reason for the study in his order.

Utilization Guidelines

In accordance with CMS Ruling 95-1 (V), utilization of these services should be consistent with locally acceptable standards of practice.

Compliance with the provisions in LCD L33768, Transthoracic Echocardiography (TTE) may be monitored and addressed through post payment data analysis and subsequent medical review audits.

Coding Information

CPT/HCPCS Codes

Group 1 Paragraph:

Part A

The following CPT/HCPCS codes associated with the services outlined in this Billing and Coding Article will not have diagnosis code limitations applied at this time: 93303, 93304, 93320, 93321, 93325, C8921, and C8922.

Group 1 Codes:

CODE	DESCRIPTION
93306	ECHOCARDIOGRAPHY, TRANSTHORACIC, REAL-TIME WITH IMAGE DOCUMENTATION (2D), INCLUDES M-MODE RECORDING, WHEN PERFORMED, COMPLETE, WITH SPECTRAL DOPPLER ECHOCARDIOGRAPHY, AND WITH COLOR FLOW DOPPLER ECHOCARDIOGRAPHY
93307	ECHOCARDIOGRAPHY, TRANSTHORACIC, REAL-TIME WITH IMAGE DOCUMENTATION (2D), INCLUDES M-MODE RECORDING, WHEN PERFORMED, COMPLETE, WITHOUT SPECTRAL OR COLOR DOPPLER ECHOCARDIOGRAPHY
93308	ECHOCARDIOGRAPHY, TRANSTHORACIC, REAL-TIME WITH IMAGE DOCUMENTATION (2D), INCLUDES M-MODE RECORDING, WHEN PERFORMED, FOLLOW-UP OR LIMITED STUDY
C8923	TRANSTHORACIC ECHOCARDIOGRAPHY WITH CONTRAST, OR WITHOUT CONTRAST FOLLOWED BY WITH CONTRAST, REAL-TIME WITH IMAGE DOCUMENTATION (2D), INCLUDES M-MODE RECORDING, WHEN PERFORMED, COMPLETE, WITHOUT SPECTRAL OR COLOR DOPPLER ECHOCARDIOGRAPHY
C8924	TRANSTHORACIC ECHOCARDIOGRAPHY WITH CONTRAST, OR WITHOUT CONTRAST FOLLOWED BY WITH CONTRAST, REAL-TIME WITH IMAGE DOCUMENTATION (2D), INCLUDES M-MODE RECORDING, WHEN PERFORMED, FOLLOW-UP OR LIMITED STUDY

Group 2 Paragraph:

Part B

The following CPT codes associated with the services outlined in this Billing and Coding Article will not have diagnosis code limitations applied at this time: 93303, 93304, 93320, 93321, and 93325.

Group 2 Codes:

CODE	DESCRIPTION
93306	ECHOCARDIOGRAPHY, TRANSTHORACIC, REAL-TIME WITH IMAGE DOCUMENTATION (2D), INCLUDES M-MODE RECORDING, WHEN PERFORMED,

CODE	DESCRIPTION
	COMPLETE, WITH SPECTRAL DOPPLER ECHOCARDIOGRAPHY, AND WITH COLOR FLOW DOPPLER ECHOCARDIOGRAPHY
93307	ECHOCARDIOGRAPHY, TRANSTHORACIC, REAL-TIME WITH IMAGE DOCUMENTATION (2D), INCLUDES M-MODE RECORDING, WHEN PERFORMED, COMPLETE, WITHOUT SPECTRAL OR COLOR DOPPLER ECHOCARDIOGRAPHY
93308	ECHOCARDIOGRAPHY, TRANSTHORACIC, REAL-TIME WITH IMAGE DOCUMENTATION (2D), INCLUDES M-MODE RECORDING, WHEN PERFORMED, FOLLOW-UP OR LIMITED STUDY

CPT/HCPCS Modifiers

N/A

ICD-10 Codes that Support Medical Necessity

Group 1 Paragraph:

The following ICD-10-CM codes support medical necessity and provide limited coverage for CPT/HCPCS codes:

Part A: 93306, 93307, 93308, C8923, and C8924

Part B: 93306, 93307, and 93308

It is the provider's responsibility to select codes carried out to the highest level of specificity and selected from the ICD-10-CM code book appropriate to the year in which the service is rendered for the claim(s) submitted.

Group 1 Codes:

ICD-10 CODE	DESCRIPTION
A18.84	Tuberculosis of heart
A40.0	Sepsis due to streptococcus, group A
A40.1	Sepsis due to streptococcus, group B
A40.3	Sepsis due to Streptococcus pneumoniae
A40.8	Other streptococcal sepsis
A40.9	Streptococcal sepsis, unspecified
A41.01	Sepsis due to Methicillin susceptible Staphylococcus aureus
A41.02	Sepsis due to Methicillin resistant Staphylococcus aureus
A41.1	Sepsis due to other specified staphylococcus
A41.2	Sepsis due to unspecified staphylococcus

ICD-10 CODE	DESCRIPTION
A41.3	Sepsis due to Hemophilus influenzae
A41.4	Sepsis due to anaerobes
A41.50	Gram-negative sepsis, unspecified
A41.51	Sepsis due to Escherichia coli [E. coli]
A41.52	Sepsis due to Pseudomonas
A41.53	Sepsis due to Serratia
A41.59	Other Gram-negative sepsis
A41.81	Sepsis due to Enterococcus
A41.89	Other specified sepsis
A41.9	Sepsis, unspecified organism
A42.7	Actinomycotic sepsis
A52.01	Syphilitic aneurysm of aorta
A52.02	Syphilitic aortitis
A52.03	Syphilitic endocarditis
A52.06	Other syphilitic heart involvement
A54.83	Gonococcal heart infection
A69.20	Lyme disease, unspecified
A69.21	Meningitis due to Lyme disease
A69.22	Other neurologic disorders in Lyme disease
A69.23	Arthritis due to Lyme disease
A69.29	Other conditions associated with Lyme disease
B33.21	Viral endocarditis
B33.22	Viral myocarditis
B33.23	Viral pericarditis
B37.6	Candidal endocarditis
B39.4	Histoplasmosis capsulati, unspecified
B39.5	Histoplasmosis duboisii
B57.0	Acute Chagas' disease with heart involvement
B57.2	Chagas' disease (chronic) with heart involvement
B58.81	Toxoplasma myocarditis
C38.0	Malignant neoplasm of heart
C45.2	Mesothelioma of pericardium

ICD-10 CODE	DESCRIPTION
D15.1	Benign neoplasm of heart
D86.0	Sarcoidosis of lung
D86.1	Sarcoidosis of lymph nodes
D86.2	Sarcoidosis of lung with sarcoidosis of lymph nodes
D86.3	Sarcoidosis of skin
D86.81	Sarcoid meningitis
D86.82	Multiple cranial nerve palsies in sarcoidosis
D86.83	Sarcoid iridocyclitis
D86.84	Sarcoid pyelonephritis
D86.85	Sarcoid myocarditis
D86.86	Sarcoid arthropathy
D86.87	Sarcoid myositis
D86.89	Sarcoidosis of other sites
D86.9	Sarcoidosis, unspecified
E03.5	Myxedema coma
E08.51	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy without gangrene
E08.52	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy with gangrene
E09.51	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy without gangrene
E09.52	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy with gangrene
E10.51	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene
E10.52	Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene
E11.51	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene
E11.52	Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene
E13.51	Other specified diabetes mellitus with diabetic peripheral angiopathy without gangrene
E13.52	Other specified diabetes mellitus with diabetic peripheral angiopathy with gangrene
E83.10	Disorder of iron metabolism, unspecified
E83.110	Hereditary hemochromatosis
E83.111	Hemochromatosis due to repeated red blood cell transfusions

ICD-10 CODE	DESCRIPTION
E83.118	Other hemochromatosis
E83.119	Hemochromatosis, unspecified
E83.19	Other disorders of iron metabolism
E85.1	Neuropathic heredofamilial amyloidosis
E85.2	Heredofamilial amyloidosis, unspecified
E85.3	Secondary systemic amyloidosis
E85.4	Organ-limited amyloidosis
E85.81	Light chain (AL) amyloidosis
E85.82	Wild-type transthyretin-related (ATTR) amyloidosis
E85.89	Other amyloidosis
E85.9	Amyloidosis, unspecified
E86.0	Dehydration
E86.1	Hypovolemia
E86.9	Volume depletion, unspecified
G06.0	Intracranial abscess and granuloma
G06.1	Intraspinal abscess and granuloma
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
G46.0	Middle cerebral artery syndrome
G46.1	Anterior cerebral artery syndrome
G46.2	Posterior cerebral artery syndrome
G47.30	Sleep apnea, unspecified
H34.00	Transient retinal artery occlusion, unspecified eye
H34.01	Transient retinal artery occlusion, right eye
H34.02	Transient retinal artery occlusion, left eye
H34.03	Transient retinal artery occlusion, bilateral
I01.0	Acute rheumatic pericarditis

ICD-10 CODE	DESCRIPTION
I01.1	Acute rheumatic endocarditis
I01.2	Acute rheumatic myocarditis
I01.8	Other acute rheumatic heart disease
I01.9	Acute rheumatic heart disease, unspecified
I02.0	Rheumatic chorea with heart involvement
I05.0	Rheumatic mitral stenosis
I05.1	Rheumatic mitral insufficiency
I05.2	Rheumatic mitral stenosis with insufficiency
I05.8	Other rheumatic mitral valve diseases
I05.9	Rheumatic mitral valve disease, unspecified
I06.0	Rheumatic aortic stenosis
I06.1	Rheumatic aortic insufficiency
I06.2	Rheumatic aortic stenosis with insufficiency
I06.8	Other rheumatic aortic valve diseases
I06.9	Rheumatic aortic valve disease, unspecified
I07.0	Rheumatic tricuspid stenosis
I07.1	Rheumatic tricuspid insufficiency
I07.2	Rheumatic tricuspid stenosis and insufficiency
I07.8	Other rheumatic tricuspid valve diseases
I07.9	Rheumatic tricuspid valve disease, unspecified
I08.0	Rheumatic disorders of both mitral and aortic valves
I08.1	Rheumatic disorders of both mitral and tricuspid valves
I08.2	Rheumatic disorders of both aortic and tricuspid valves
I08.3	Combined rheumatic disorders of mitral, aortic and tricuspid valves
I08.8	Other rheumatic multiple valve diseases
I08.9	Rheumatic multiple valve disease, unspecified
I09.0	Rheumatic myocarditis
I09.1	Rheumatic diseases of endocardium, valve unspecified
I09.2	Chronic rheumatic pericarditis
I09.81	Rheumatic heart failure
I09.89	Other specified rheumatic heart diseases
I09.9	Rheumatic heart disease, unspecified

ICD-10 CODE	DESCRIPTION
I10	Essential (primary) hypertension
I11.0	Hypertensive heart disease with heart failure
I11.9	Hypertensive heart disease without heart failure
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease
I13.11	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease
I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease
I15.0	Renovascular hypertension
I20.0	Unstable angina
I20.1	Angina pectoris with documented spasm
I20.8	Other forms of angina pectoris
I20.9	Angina pectoris, unspecified
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
I21.9	Acute myocardial infarction, unspecified
I21.A1	Myocardial infarction type 2
I21.A9	Other myocardial infarction type
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

ICD-10 CODE	DESCRIPTION
I22.8	Subsequent ST elevation (STEMI) myocardial infarction of other sites
I22.9	Subsequent ST elevation (STEMI) myocardial infarction of unspecified site
I23.0	Hemopericardium as current complication following acute myocardial infarction
I23.1	Atrial septal defect as current complication following acute myocardial infarction
I23.2	Ventricular septal defect as current complication following acute myocardial infarction
I23.3	Rupture of cardiac wall without hemopericardium as current complication following acute myocardial infarction
I23.4	Rupture of chordae tendineae as current complication following acute myocardial infarction
I23.5	Rupture of papillary muscle as current complication following acute myocardial infarction
I23.6	Thrombosis of atrium, auricular appendage, and ventricle as current complications following acute myocardial infarction
I23.7	Postinfarction angina
I23.8	Other current complications following acute myocardial infarction
I24.0	Acute coronary thrombosis not resulting in myocardial infarction
I24.1	Dressler's syndrome
I24.8	Other forms of acute ischemic heart disease
I24.9	Acute ischemic heart disease, unspecified
I25.10	Atherosclerotic heart disease of native coronary artery without angina pectoris
I25.110	Atherosclerotic heart disease of native coronary artery with unstable angina pectoris
I25.111	Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm
I25.118	Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris
I25.119	Atherosclerotic heart disease of native coronary artery with unspecified angina pectoris
I25.2	Old myocardial infarction
I25.3	Aneurysm of heart
I25.41	Coronary artery aneurysm
I25.42	Coronary artery dissection
I25.5	Ischemic cardiomyopathy
I25.6	Silent myocardial ischemia

ICD-10 CODE	DESCRIPTION
I25.700	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unstable angina pectoris
I25.701	Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris with documented spasm
I25.708	Atherosclerosis of coronary artery bypass graft(s), unspecified, with other forms of angina pectoris
I25.709	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unspecified angina pectoris
I25.710	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina pectoris
I25.711	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris with documented spasm
I25.718	Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris
I25.719	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unspecified angina pectoris
I25.720	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unstable angina pectoris
I25.721	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris with documented spasm
I25.728	Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of angina pectoris
I25.729	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unspecified angina pectoris
I25.730	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unstable angina pectoris
I25.731	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris with documented spasm
I25.738	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with other forms of angina pectoris
ICD-10 CODE	DESCRIPTION
I25.739	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unspecified angina pectoris
I25.750	Atherosclerosis of native coronary artery of transplanted heart with unstable angina
I25.751	Atherosclerosis of native coronary artery of transplanted heart with angina pectoris with documented spasm
I25.758	Atherosclerosis of native coronary artery of transplanted heart with other forms of

ICD-10 CODE	DESCRIPTION
	angina pectoris
I25.759	Atherosclerosis of native coronary artery of transplanted heart with unspecified angina pectoris
I25.760	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unstable angina
I25.761	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented spasm
I25.768	Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris
I25.769	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unspecified angina pectoris
I25.790	Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris
I25.791	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm
I25.798	Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris
I25.799	Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris
I25.810	Atherosclerosis of coronary artery bypass graft(s) without angina pectoris
I25.811	Atherosclerosis of native coronary artery of transplanted heart without angina pectoris
I25.812	Atherosclerosis of bypass graft of coronary artery of transplanted heart without angina pectoris
I25.84	Coronary atherosclerosis due to calcified coronary lesion
I25.89	Other forms of chronic ischemic heart disease
I25.9	Chronic ischemic heart disease, unspecified
I26.01	Septic pulmonary embolism with acute cor pulmonale
I26.02	Saddle embolus of pulmonary artery with acute cor pulmonale
I26.09	Other pulmonary embolism with acute cor pulmonale
I26.90	Septic pulmonary embolism without acute cor pulmonale
I26.92	Saddle embolus of pulmonary artery without acute cor pulmonale
I26.93	Single subsegmental pulmonary embolism without acute cor pulmonale
I26.94	Multiple subsegmental pulmonary emboli without acute cor pulmonale
I26.99	Other pulmonary embolism without acute cor pulmonale

ICD-10 CODE	DESCRIPTION
I27.0	Primary pulmonary hypertension
I27.1	Kyphoscoliotic heart disease
I27.20	Pulmonary hypertension, unspecified
I27.21	Secondary pulmonary arterial hypertension
I27.22	Pulmonary hypertension due to left heart disease
I27.23	Pulmonary hypertension due to lung diseases and hypoxia
I27.24	Chronic thromboembolic pulmonary hypertension
I27.29	Other secondary pulmonary hypertension
I27.81	Cor pulmonale (chronic)
I27.82	Chronic pulmonary embolism
I27.83	Eisenmenger's syndrome
I27.89	Other specified pulmonary heart diseases
I27.9	Pulmonary heart disease, unspecified
I30.0	Acute nonspecific idiopathic pericarditis
I30.1	Infective pericarditis
I30.8	Other forms of acute pericarditis
I30.9	Acute pericarditis, unspecified
I31.0	Chronic adhesive pericarditis
I31.1	Chronic constrictive pericarditis
I31.2	Hemopericardium, not elsewhere classified
I31.3	Pericardial effusion (noninflammatory)
I31.4	Cardiac tamponade
I31.8	Other specified diseases of pericardium
I31.9	Disease of pericardium, unspecified
I32	Pericarditis in diseases classified elsewhere
I33.0	Acute and subacute infective endocarditis
I33.9	Acute and subacute endocarditis, unspecified
I34.0	Nonrheumatic mitral (valve) insufficiency
I34.1	Nonrheumatic mitral (valve) prolapse
I34.2	Nonrheumatic mitral (valve) stenosis
I34.8	Other nonrheumatic mitral valve disorders
I34.9	Nonrheumatic mitral valve disorder, unspecified

ICD-10 CODE	DESCRIPTION
I35.0	Nonrheumatic aortic (valve) stenosis
I35.1	Nonrheumatic aortic (valve) insufficiency
I35.2	Nonrheumatic aortic (valve) stenosis with insufficiency
I35.8	Other nonrheumatic aortic valve disorders
I35.9	Nonrheumatic aortic valve disorder, unspecified
I36.0	Nonrheumatic tricuspid (valve) stenosis
I36.1	Nonrheumatic tricuspid (valve) insufficiency
I36.2	Nonrheumatic tricuspid (valve) stenosis with insufficiency
I36.8	Other nonrheumatic tricuspid valve disorders
I36.9	Nonrheumatic tricuspid valve disorder, unspecified
I37.0	Nonrheumatic pulmonary valve stenosis
I37.1	Nonrheumatic pulmonary valve insufficiency
I37.2	Nonrheumatic pulmonary valve stenosis with insufficiency
I37.8	Other nonrheumatic pulmonary valve disorders
I37.9	Nonrheumatic pulmonary valve disorder, unspecified
I38	Endocarditis, valve unspecified
I39	Endocarditis and heart valve disorders in diseases classified elsewhere
I40.0	Infective myocarditis
I40.1	Isolated myocarditis
I40.8	Other acute myocarditis
I40.9	Acute myocarditis, unspecified
I41	Myocarditis in diseases classified elsewhere
I42.0	Dilated cardiomyopathy
I42.1	Obstructive hypertrophic cardiomyopathy
I42.2	Other hypertrophic cardiomyopathy
I42.3	Endomyocardial (eosinophilic) disease
I42.4	Endocardial fibroelastosis
I42.5	Other restrictive cardiomyopathy
I42.6	Alcoholic cardiomyopathy
I42.7	Cardiomyopathy due to drug and external agent
I42.8	Other cardiomyopathies
I42.9	Cardiomyopathy, unspecified

ICD-10 CODE	DESCRIPTION
I43	Cardiomyopathy in diseases classified elsewhere
I44.1	Atrioventricular block, second degree
I44.2	Atrioventricular block, complete
I44.7	Left bundle-branch block, unspecified
I45.6	Pre-excitation syndrome
I45.81	Long QT syndrome
I45.9	Conduction disorder, unspecified
I46.2	Cardiac arrest due to underlying cardiac condition
I46.8	Cardiac arrest due to other underlying condition
ICD-10 CODE	DESCRIPTION
I46.9	Cardiac arrest, cause 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

ICD-10 CODE	DESCRIPTION
I49.8	Other specified cardiac arrhythmias
I49.9	Cardiac arrhythmia, unspecified
I50.1	Left ventricular failure, unspecified
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
I50.810	Right heart failure, unspecified
I50.811	Acute right heart failure
I50.812	Chronic right heart failure
I50.813	Acute on chronic right heart failure
I50.814	Right heart failure due to left heart failure
I50.82	Biventricular heart failure
I50.83	High output heart failure
I50.84	End stage heart failure
I50.89	Other heart failure
I50.9	Heart failure, unspecified
I51.0	Cardiac septal defect, acquired
I51.1	Rupture of chordae tendineae, not elsewhere classified
I51.2	Rupture of papillary muscle, not elsewhere classified
I51.3	Intracardiac thrombosis, not elsewhere classified
I51.4	Myocarditis, unspecified
I51.5	Myocardial degeneration

ICD-10 CODE	DESCRIPTION
I51.7	Cardiomegaly
I51.9	Heart disease, unspecified
I52	Other heart disorders in diseases classified elsewhere
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

ICD-10 CODE	DESCRIPTION
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
ICD-10 CODE	DESCRIPTION
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

ICD-10 CODE	DESCRIPTION
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
I63.89	Other cerebral infarction
I63.9	Cerebral infarction, unspecified
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
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
I67.0	Dissection of cerebral arteries, nonruptured
I67.841	Reversible cerebrovascular vasoconstriction syndrome
I67.848	Other cerebrovascular vasospasm and vasoconstriction
I67.850	Cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy
I67.858	Other hereditary cerebrovascular disease
I67.89	Other cerebrovascular disease
I70.0	Atherosclerosis of aorta
I71.00	Dissection of unspecified site of aorta

ICD-10 CODE	DESCRIPTION
I71.01	Dissection of thoracic aorta
I71.02	Dissection of abdominal aorta
I71.03	Dissection of thoracoabdominal aorta
I71.1	Thoracic aortic aneurysm, ruptured
I71.2	Thoracic aortic aneurysm, without rupture
I71.3	Abdominal aortic aneurysm, ruptured
I71.4	Abdominal aortic aneurysm, without rupture
I71.5	Thoracoabdominal aortic aneurysm, ruptured
I71.6	Thoracoabdominal aortic aneurysm, without rupture
I71.8	Aortic aneurysm of unspecified site, ruptured
I71.9	Aortic aneurysm of unspecified site, without rupture
I72.0	Aneurysm of carotid artery
I72.1	Aneurysm of artery of upper extremity
I72.2	Aneurysm of renal artery
I72.3	Aneurysm of iliac artery
I72.4	Aneurysm of artery of lower extremity
I72.5	Aneurysm of other precerebral arteries
I72.6	Aneurysm of vertebral artery
I72.8	Aneurysm of other specified arteries
I72.9	Aneurysm of unspecified site
I73.00	Raynaud's syndrome without gangrene
I73.01	Raynaud's syndrome with gangrene
I73.1	Thromboangiitis obliterans [Buerger's disease]
I73.81	Erythromelalgia
I73.89	Other specified peripheral vascular diseases
I73.9	Peripheral vascular disease, unspecified
I74.01	Saddle embolus of abdominal aorta
I74.09	Other arterial embolism and thrombosis of abdominal aorta
I74.10	Embolism and thrombosis of unspecified parts of aorta
I74.11	Embolism and thrombosis of thoracic aorta
I74.19	Embolism and thrombosis of other parts of aorta
I74.2	Embolism and thrombosis of arteries of the upper extremities

ICD-10 CODE	DESCRIPTION
I74.3	Embolism and thrombosis of arteries of the lower extremities
I74.4	Embolism and thrombosis of arteries of extremities, unspecified
I74.5	Embolism and thrombosis of iliac artery
I74.8	Embolism and thrombosis of other arteries
I74.9	Embolism and thrombosis of unspecified artery
I75.011	Atheroembolism of right upper extremity
I75.012	Atheroembolism of left upper extremity
I75.013	Atheroembolism of bilateral upper extremities
I75.019	Atheroembolism of unspecified upper extremity
I75.021	Atheroembolism of right lower extremity
I75.022	Atheroembolism of left lower extremity
I75.023	Atheroembolism of bilateral lower extremities
I75.029	Atheroembolism of unspecified lower extremity
I75.81	Atheroembolism of kidney
I75.89	Atheroembolism of other site
I77.70	Dissection of unspecified artery
I77.71	Dissection of carotid artery
I77.72	Dissection of iliac artery
I77.73	Dissection of renal artery
I77.74	Dissection of vertebral artery
I77.75	Dissection of other precerebral arteries
I77.76	Dissection of artery of upper extremity
I77.77	Dissection of artery of lower extremity
I77.79	Dissection of other specified artery
I79.0	Aneurysm of aorta in diseases classified elsewhere
I79.1	Aortitis in diseases classified elsewhere
I79.8	Other disorders of arteries, arterioles and capillaries in diseases classified elsewhere
I95.1	Orthostatic hypotension
I95.2	Hypotension due to drugs
I95.3	Hypotension of hemodialysis
I95.81	Postprocedural hypotension
I95.89	Other hypotension

ICD-10 CODE	DESCRIPTION
I95.9	Hypotension, unspecified
I97.0	Postcardiotomy syndrome
I97.110	Postprocedural cardiac insufficiency following cardiac surgery
I97.111	Postprocedural cardiac insufficiency following other surgery
I97.120	Postprocedural cardiac arrest following cardiac surgery
I97.121	Postprocedural cardiac arrest following other surgery
I97.130	Postprocedural heart failure following cardiac surgery
I97.131	Postprocedural heart failure following other surgery
I97.190	Other postprocedural cardiac functional disturbances following cardiac surgery
I97.191	Other postprocedural cardiac functional disturbances following other surgery
I97.710	Intraoperative cardiac arrest during cardiac surgery
I97.711	Intraoperative cardiac arrest during other surgery
I97.790	Other intraoperative cardiac functional disturbances during cardiac surgery
I97.791	Other intraoperative cardiac functional disturbances during other surgery
I97.88	Other intraoperative complications of the circulatory system, not elsewhere classified
I97.89	Other postprocedural complications and disorders of the circulatory system, not elsewhere classified
J80	Acute respiratory distress syndrome
J81.0	Acute pulmonary edema
K68.11	Postprocedural retroperitoneal abscess
M30.3	Mucocutaneous lymph node syndrome [Kawasaki]
M31.4	Aortic arch syndrome [Takayasu]
M32.0	Drug-induced systemic lupus erythematosus
M32.10	Systemic lupus erythematosus, organ or system involvement unspecified
M32.11	Endocarditis in systemic lupus erythematosus
M32.12	Pericarditis in systemic lupus erythematosus
M32.13	Lung involvement in systemic lupus erythematosus
M32.14	Glomerular disease in systemic lupus erythematosus
M32.15	Tubulo-interstitial nephropathy in systemic lupus erythematosus
M32.19	Other organ or system involvement in systemic lupus erythematosus
M32.8	Other forms of systemic lupus erythematosus

ICD-10 CODE	DESCRIPTION
M32.9	Systemic lupus erythematosus, unspecified
P22.8	Other respiratory distress of newborn
P22.9	Respiratory distress of newborn, unspecified
P28.3	Primary sleep apnea of newborn
P28.4	Other apnea of newborn
P28.89	Other specified respiratory conditions of newborn
P29.0	Neonatal cardiac failure
P29.11	Neonatal tachycardia
P29.12	Neonatal bradycardia
P29.2	Neonatal hypertension
P29.4	Transient myocardial ischemia in newborn
P29.89	Other cardiovascular disorders originating in the perinatal period
P29.9	Cardiovascular disorder originating in the perinatal period, unspecified
P84	Other problems with newborn
P94.1	Congenital hypertonia
P94.2	Congenital hypotonia
P94.8	Other disorders of muscle tone of newborn
P94.9	Disorder of muscle tone of newborn, unspecified
P96.0	Congenital renal failure
P96.3	Wide cranial sutures of newborn
P96.5	Complication to newborn due to (fetal) intrauterine procedure
P96.89	Other specified conditions originating in the perinatal period
Q20.0	Common arterial trunk
Q20.1	Double outlet right ventricle
Q20.2	Double outlet left ventricle
Q20.3	Discordant ventriculoarterial connection
Q20.4	Double inlet ventricle
Q20.5	Discordant atrioventricular connection
Q20.6	Isomerism of atrial appendages
Q20.8	Other congenital malformations of cardiac chambers and connections
Q20.9	Congenital malformation of cardiac chambers and connections, unspecified
Q21.0	Ventricular septal defect

ICD-10 CODE	DESCRIPTION
Q21.1	Atrial septal defect
Q21.2	Atrioventricular septal defect
Q21.3	Tetralogy of Fallot
Q21.4	Aortopulmonary septal defect
Q21.8	Other congenital malformations of cardiac septa
Q21.9	Congenital malformation of cardiac septum, unspecified
Q22.0	Pulmonary valve atresia
Q22.1	Congenital pulmonary valve stenosis
Q22.2	Congenital pulmonary valve insufficiency
Q22.3	Other congenital malformations of pulmonary valve
Q22.4	Congenital tricuspid stenosis
Q22.5	Ebstein's anomaly
Q22.6	Hypoplastic right heart syndrome
Q22.8	Other congenital malformations of tricuspid valve
Q22.9	Congenital malformation of tricuspid valve, unspecified
Q23.0	Congenital stenosis of aortic valve
Q23.1	Congenital insufficiency of aortic valve
Q23.2	Congenital mitral stenosis
Q23.3	Congenital mitral insufficiency
Q23.4	Hypoplastic left heart syndrome
Q23.8	Other congenital malformations of aortic and mitral valves
Q23.9	Congenital malformation of aortic and mitral valves, unspecified
Q24.0	Dextrocardia
Q24.1	Levocardia
Q24.2	Cor triatriatum
Q24.3	Pulmonary infundibular stenosis
Q24.4	Congenital subaortic stenosis
Q24.5	Malformation of coronary vessels
Q24.6	Congenital heart block
Q24.8	Other specified congenital malformations of heart
Q24.9	Congenital malformation of heart, unspecified
Q25.0	Patent ductus arteriosus

ICD-10 CODE	DESCRIPTION
Q25.1	Coarctation of aorta
Q25.21	Interruption of aortic arch
Q25.29	Other atresia of aorta
Q28.9	Congenital malformation of circulatory system, unspecified
Q87.40	Marfan's syndrome, unspecified
Q87.410	Marfan's syndrome with aortic dilation
ICD-10 CODE	DESCRIPTION
Q87.418	Marfan's syndrome with other cardiovascular manifestations
Q87.42	Marfan's syndrome with ocular manifestations
Q87.43	Marfan's syndrome with skeletal manifestation
Q89.3	Situs inversus
R00.1	Bradycardia, unspecified
R00.2	Palpitations
R00.8	Other abnormalities of heart beat
R00.9	Unspecified abnormalities of heart beat
R01.0	Benign and innocent cardiac murmurs
R01.1	Cardiac murmur, unspecified
R01.2	Other cardiac sounds
R06.00	Dyspnea, unspecified
R06.02	Shortness of breath
R06.03	Acute respiratory distress
R06.09	Other forms of dyspnea
R06.2	Wheezing
R06.3	Periodic breathing
R06.81	Apnea, not elsewhere classified
R06.82	Tachypnea, not elsewhere classified
R06.83	Snoring
R06.89	Other abnormalities of breathing
R07.2	Precordial pain
R07.82	Intercostal pain
R07.89	Other chest pain
R07.9	Chest pain, unspecified

ICD-10 CODE	DESCRIPTION
R23.0	Cyanosis
R40.20	Unspecified coma
R40.2110	Coma scale, eyes open, never, unspecified time
R40.2111	Coma scale, eyes open, never, in the field [EMT or ambulance]
R40.2112	Coma scale, eyes open, never, at arrival to emergency department
R40.2113	Coma scale, eyes open, never, at hospital admission
R40.2114	Coma scale, eyes open, never, 24 hours or more after hospital admission
R40.2120	Coma scale, eyes open, to pain, unspecified time
R40.2121	Coma scale, eyes open, to pain, in the field [EMT or ambulance]
R40.2122	Coma scale, eyes open, to pain, at arrival to emergency department
R40.2123	Coma scale, eyes open, to pain, at hospital admission
R40.2124	Coma scale, eyes open, to pain, 24 hours or more after hospital admission
R40.2210	Coma scale, best verbal response, none, unspecified time
R40.2211	Coma scale, best verbal response, none, in the field [EMT or ambulance]
R40.2212	Coma scale, best verbal response, none, at arrival to emergency department
R40.2213	Coma scale, best verbal response, none, at hospital admission
R40.2214	Coma scale, best verbal response, none, 24 hours or more after hospital admission
R40.2220	Coma scale, best verbal response, incomprehensible words, unspecified time
R40.2221	Coma scale, best verbal response, incomprehensible words, in the field [EMT or ambulance]
R40.2222	Coma scale, best verbal response, incomprehensible words, at arrival to emergency department
R40.2223	Coma scale, best verbal response, incomprehensible words, at hospital admission
R40.2224	Coma scale, best verbal response, incomprehensible words, 24 hours or more after hospital admission
R40.2310	Coma scale, best motor response, none, unspecified time
R40.2311	Coma scale, best motor response, none, in the field [EMT or ambulance]
R40.2312	Coma scale, best motor response, none, at arrival to emergency department
R40.2313	Coma scale, best motor response, none, at hospital admission
R40.2314	Coma scale, best motor response, none, 24 hours or more after hospital admission
R40.2320	Coma scale, best motor response, extension, unspecified time
R40.2321	Coma scale, best motor response, extension, in the field [EMT or ambulance]
R40.2322	Coma scale, best motor response, extension, at arrival to emergency department

ICD-10 CODE	DESCRIPTION
R40.2323	Coma scale, best motor response, extension, at hospital admission
R40.2324	Coma scale, best motor response, extension, 24 hours or more after hospital admission
R40.2340	Coma scale, best motor response, flexion withdrawal, unspecified time
R40.2341	Coma scale, best motor response, flexion withdrawal, in the field [EMT or ambulance]
R40.2342	Coma scale, best motor response, flexion withdrawal, at arrival to emergency department
R40.2343	Coma scale, best motor response, flexion withdrawal, at hospital admission
R40.2344	Coma scale, best motor response, flexion withdrawal, 24 hours or more after hospital admission
R40.4	Transient alteration of awareness
R47.01	Aphasia
R50.2	Drug induced fever
R50.81	Fever presenting with conditions classified elsewhere
R50.82	Postprocedural fever
R50.9	Fever, unspecified
R55	Syncope and collapse
R57.0	Cardiogenic shock
R57.1	Hypovolemic shock
R57.8	Other shock
R57.9	Shock, unspecified
R60.0	Localized edema
R60.1	Generalized edema
R60.9	Edema, unspecified
R65.21	Severe sepsis with septic shock
R78.81	Bacteremia
R94.31	Abnormal electrocardiogram [ECG] [EKG]
S21.309A	Unspecified open wound of unspecified front wall of thorax with penetration into thoracic cavity, initial encounter
S21.309D	Unspecified open wound of unspecified front wall of thorax with penetration into thoracic cavity, subsequent encounter
S21.309S	Unspecified open wound of unspecified front wall of thorax with penetration into thoracic cavity, sequela

ICD-10 CODE	DESCRIPTION
S22.5XXA	Flail chest, initial encounter for closed fracture
S22.5XXB	Flail chest, initial encounter for open fracture
S22.5XXD	Flail chest, subsequent encounter for fracture with routine healing
S22.5XXG	Flail chest, subsequent encounter for fracture with delayed healing
S22.5XXK	Flail chest, subsequent encounter for fracture with nonunion
S22.5XXS	Flail chest, sequela
S25.00XA	Unspecified injury of thoracic aorta, initial encounter
S25.00XD	Unspecified injury of thoracic aorta, subsequent encounter
S25.00XS	Unspecified injury of thoracic aorta, sequela
S25.01XA	Minor laceration of thoracic aorta, initial encounter
S25.01XD	Minor laceration of thoracic aorta, subsequent encounter
S25.01XS	Minor laceration of thoracic aorta, sequela
S25.02XA	Major laceration of thoracic aorta, initial encounter
S25.02XD	Major laceration of thoracic aorta, subsequent encounter
S25.02XS	Major laceration of thoracic aorta, sequela
S25.09XA	Other specified injury of thoracic aorta, initial encounter
S25.09XD	Other specified injury of thoracic aorta, subsequent encounter
S25.09XS	Other specified injury of thoracic aorta, sequela
ICD-10 CODE	DESCRIPTION
S25.20XA	Unspecified injury of superior vena cava, initial encounter
S25.20XD	Unspecified injury of superior vena cava, subsequent encounter
S25.20XS	Unspecified injury of superior vena cava, sequela
S25.21XA	Minor laceration of superior vena cava, initial encounter
S25.21XD	Minor laceration of superior vena cava, subsequent encounter
S25.21XS	Minor laceration of superior vena cava, sequela
S25.22XA	Major laceration of superior vena cava, initial encounter
S25.22XD	Major laceration of superior vena cava, subsequent encounter
S25.22XS	Major laceration of superior vena cava, sequela
S25.29XA	Other specified injury of superior vena cava, initial encounter
S25.29XD	Other specified injury of superior vena cava, subsequent encounter
S25.29XS	Other specified injury of superior vena cava, sequela
S25.401A	Unspecified injury of right pulmonary blood vessels, initial encounter

ICD-10 CODE	DESCRIPTION
S25.401D	Unspecified injury of right pulmonary blood vessels, subsequent encounter
S25.401S	Unspecified injury of right pulmonary blood vessels, sequela
S25.402A	Unspecified injury of left pulmonary blood vessels, initial encounter
S25.402D	Unspecified injury of left pulmonary blood vessels, subsequent encounter
S25.402S	Unspecified injury of left pulmonary blood vessels, sequela
S25.409A	Unspecified injury of unspecified pulmonary blood vessels, initial encounter
S25.409D	Unspecified injury of unspecified pulmonary blood vessels, subsequent encounter
S25.409S	Unspecified injury of unspecified pulmonary blood vessels, sequela
S25.411A	Minor laceration of right pulmonary blood vessels, initial encounter
S25.411D	Minor laceration of right pulmonary blood vessels, subsequent encounter
S25.411S	Minor laceration of right pulmonary blood vessels, sequela
S25.412A	Minor laceration of left pulmonary blood vessels, initial encounter
S25.412D	Minor laceration of left pulmonary blood vessels, subsequent encounter
S25.412S	Minor laceration of left pulmonary blood vessels, sequela
S25.419A	Minor laceration of unspecified pulmonary blood vessels, initial encounter
S25.419D	Minor laceration of unspecified pulmonary blood vessels, subsequent encounter
S25.419S	Minor laceration of unspecified pulmonary blood vessels, sequela
S25.421A	Major laceration of right pulmonary blood vessels, initial encounter
S25.421D	Major laceration of right pulmonary blood vessels, subsequent encounter
S25.421S	Major laceration of right pulmonary blood vessels, sequela
S25.422A	Major laceration of left pulmonary blood vessels, initial encounter
S25.422D	Major laceration of left pulmonary blood vessels, subsequent encounter
S25.422S	Major laceration of left pulmonary blood vessels, sequela
S25.429A	Major laceration of unspecified pulmonary blood vessels, initial encounter
S25.429D	Major laceration of unspecified pulmonary blood vessels, subsequent encounter
S25.429S	Major laceration of unspecified pulmonary blood vessels, sequela
S25.491A	Other specified injury of right pulmonary blood vessels, initial encounter
S25.491D	Other specified injury of right pulmonary blood vessels, subsequent encounter
S25.491S	Other specified injury of right pulmonary blood vessels, sequela
S25.492A	Other specified injury of left pulmonary blood vessels, initial encounter
S25.492D	Other specified injury of left pulmonary blood vessels, subsequent encounter
S25.492S	Other specified injury of left pulmonary blood vessels, sequela

ICD-10 CODE	DESCRIPTION
S25.499A	Other specified injury of unspecified pulmonary blood vessels, initial encounter
S25.499D	Other specified injury of unspecified pulmonary blood vessels, subsequent encounter
S25.499S	Other specified injury of unspecified pulmonary blood vessels, sequela
S26.01XA	Contusion of heart with hemopericardium, initial encounter
S26.01XD	Contusion of heart with hemopericardium, subsequent encounter
S26.01XS	Contusion of heart with hemopericardium, sequela
S26.020A	Mild laceration of heart with hemopericardium, initial encounter
S26.020D	Mild laceration of heart with hemopericardium, subsequent encounter
S26.020S	Mild laceration of heart with hemopericardium, sequela
S26.021A	Moderate laceration of heart with hemopericardium, initial encounter
S26.021D	Moderate laceration of heart with hemopericardium, subsequent encounter
S26.021S	Moderate laceration of heart with hemopericardium, sequela
S26.022A	Major laceration of heart with hemopericardium, initial encounter
S26.022D	Major laceration of heart with hemopericardium, subsequent encounter
S26.022S	Major laceration of heart with hemopericardium, sequela
S26.11XA	Contusion of heart without hemopericardium, initial encounter
S26.11XD	Contusion of heart without hemopericardium, subsequent encounter
S26.11XS	Contusion of heart without hemopericardium, sequela
S26.12XA	Laceration of heart without hemopericardium, initial encounter
S26.12XD	Laceration of heart without hemopericardium, subsequent encounter
S26.12XS	Laceration of heart without hemopericardium, sequela
S26.90XA	Unspecified injury of heart, unspecified with or without hemopericardium, initial encounter
S26.90XD	Unspecified injury of heart, unspecified with or without hemopericardium, subsequent encounter
S26.90XS	Unspecified injury of heart, unspecified with or without hemopericardium, sequela
S26.91XA	Contusion of heart, unspecified with or without hemopericardium, initial encounter
S26.91XD	Contusion of heart, unspecified with or without hemopericardium, subsequent encounter
S26.91XS	Contusion of heart, unspecified with or without hemopericardium, sequela
S26.92XA	Laceration of heart, unspecified with or without hemopericardium, initial encounter
S26.92XD	Laceration of heart, unspecified with or without hemopericardium, subsequent encounter

ICD-10 CODE	DESCRIPTION
S26.92XS	Laceration of heart, unspecified with or without hemopericardium, sequela
T45.1X1A	Poisoning by antineoplastic and immunosuppressive drugs, accidental (unintentional), initial encounter
T45.1X1D	Poisoning by antineoplastic and immunosuppressive drugs, accidental (unintentional), subsequent encounter
T45.1X1S	Poisoning by antineoplastic and immunosuppressive drugs, accidental (unintentional), sequela
T45.1X2A	Poisoning by antineoplastic and immunosuppressive drugs, intentional self-harm, initial encounter
T45.1X2D	Poisoning by antineoplastic and immunosuppressive drugs, intentional self-harm, subsequent encounter
T45.1X2S	Poisoning by antineoplastic and immunosuppressive drugs, intentional self-harm, sequela
T45.1X3A	Poisoning by antineoplastic and immunosuppressive drugs, assault, initial encounter
T45.1X3D	Poisoning by antineoplastic and immunosuppressive drugs, assault, subsequent encounter
T45.1X3S	Poisoning by antineoplastic and immunosuppressive drugs, assault, sequela
T45.1X4A	Poisoning by antineoplastic and immunosuppressive drugs, undetermined, initial encounter
T45.1X4D	Poisoning by antineoplastic and immunosuppressive drugs, undetermined, subsequent encounter
T45.1X4S	Poisoning by antineoplastic and immunosuppressive drugs, undetermined, sequela
T50.905A	Adverse effect of unspecified drugs, medicaments and biological substances, initial encounter
T50.905D	Adverse effect of unspecified drugs, medicaments and biological substances, subsequent encounter
T50.905S	Adverse effect of unspecified drugs, medicaments and biological substances, sequela
T66.XXXA	Radiation sickness, unspecified, initial encounter
T66.XXXD	Radiation sickness, unspecified, subsequent encounter
T66.XXXS	Radiation sickness, unspecified, sequela
T79.0XXA	Air embolism (traumatic), initial encounter
T79.0XXD	Air embolism (traumatic), subsequent encounter
T79.0XXS	Air embolism (traumatic), sequela
T79.1XXA	Fat embolism (traumatic), initial encounter

ICD-10 CODE	DESCRIPTION
T79.1XXD	Fat embolism (traumatic), subsequent encounter
T79.1XXS	Fat embolism (traumatic), sequela
T79.4XXA	Traumatic shock, initial encounter
ICD-10 CODE	DESCRIPTION
T79.4XXD	Traumatic shock, subsequent encounter
T79.4XXS	Traumatic shock, sequela
T80.211A	Bloodstream infection due to central venous catheter, initial encounter
T80.211D	Bloodstream infection due to central venous catheter, subsequent encounter
T80.211S	Bloodstream infection due to central venous catheter, sequela
T80.212A	Local infection due to central venous catheter, initial encounter
T80.212D	Local infection due to central venous catheter, subsequent encounter
T80.212S	Local infection due to central venous catheter, sequela
T80.218A	Other infection due to central venous catheter, initial encounter
T80.218D	Other infection due to central venous catheter, subsequent encounter
T80.218S	Other infection due to central venous catheter, sequela
T80.219A	Unspecified infection due to central venous catheter, initial encounter
T80.219D	Unspecified infection due to central venous catheter, subsequent encounter
T80.219S	Unspecified infection due to central venous catheter, sequela
T80.22XA	Acute infection following transfusion, infusion, or injection of blood and blood products, initial encounter
T80.22XD	Acute infection following transfusion, infusion, or injection of blood and blood products, subsequent encounter
T80.22XS	Acute infection following transfusion, infusion, or injection of blood and blood products, sequela
T80.29XA	Infection following other infusion, transfusion and therapeutic injection, initial encounter
T80.29XD	Infection following other infusion, transfusion and therapeutic injection, subsequent encounter
T80.29XS	Infection following other infusion, transfusion and therapeutic injection, sequela
T81.10XA	Postprocedural shock unspecified, initial encounter
T81.10XD	Postprocedural shock unspecified, subsequent encounter
T81.10XS	Postprocedural shock unspecified, sequela
T81.11XA	Postprocedural cardiogenic shock, initial encounter

ICD-10 CODE	DESCRIPTION
T81.11XD	Postprocedural cardiogenic shock, subsequent encounter
T81.11XS	Postprocedural cardiogenic shock, sequela
T81.12XA	Postprocedural septic shock, initial encounter
T81.12XD	Postprocedural septic shock, subsequent encounter
T81.12XS	Postprocedural septic shock, sequela
T81.19XA	Other postprocedural shock, initial encounter
T81.19XD	Other postprocedural shock, subsequent encounter
T81.19XS	Other postprocedural shock, sequela
T81.43XA	Infection following a procedure, organ and space surgical site, initial encounter
T81.43XD	Infection following a procedure, organ and space surgical site, subsequent encounter
T81.43XS	Infection following a procedure, organ and space surgical site, sequela
T81.44XA	Sepsis following a procedure, initial encounter
T81.44XD	Sepsis following a procedure, subsequent encounter
T81.44XS	Sepsis following a procedure, sequela
T82.01XA	Breakdown (mechanical) of heart valve prosthesis, initial encounter
T82.01XD	Breakdown (mechanical) of heart valve prosthesis, subsequent encounter
T82.01XS	Breakdown (mechanical) of heart valve prosthesis, sequela
T82.02XA	Displacement of heart valve prosthesis, initial encounter
T82.02XD	Displacement of heart valve prosthesis, subsequent encounter
T82.02XS	Displacement of heart valve prosthesis, sequela
T82.03XA	Leakage of heart valve prosthesis, initial encounter
T82.03XD	Leakage of heart valve prosthesis, subsequent encounter
T82.03XS	Leakage of heart valve prosthesis, sequela
T82.09XA	Other mechanical complication of heart valve prosthesis, initial encounter
T82.09XD	Other mechanical complication of heart valve prosthesis, subsequent encounter
T82.09XS	Other mechanical complication of heart valve prosthesis, sequela
T82.110A	Breakdown (mechanical) of cardiac electrode, initial encounter
T82.110D	Breakdown (mechanical) of cardiac electrode, subsequent encounter
T82.110S	Breakdown (mechanical) of cardiac electrode, sequela
T82.111A	Breakdown (mechanical) of cardiac pulse generator (battery), initial encounter
T82.111D	Breakdown (mechanical) of cardiac pulse generator (battery), subsequent encounter

ICD-10 CODE	DESCRIPTION
T82.111S	Breakdown (mechanical) of cardiac pulse generator (battery), sequela
T82.118A	Breakdown (mechanical) of other cardiac electronic device, initial encounter
T82.118D	Breakdown (mechanical) of other cardiac electronic device, subsequent encounter
T82.118S	Breakdown (mechanical) of other cardiac electronic device, sequela
T82.119A	Breakdown (mechanical) of unspecified cardiac electronic device, initial encounter
T82.119D	Breakdown (mechanical) of unspecified cardiac electronic device, subsequent encounter
T82.119S	Breakdown (mechanical) of unspecified cardiac electronic device, sequela
T82.120A	Displacement of cardiac electrode, initial encounter
T82.120D	Displacement of cardiac electrode, subsequent encounter
T82.120S	Displacement of cardiac electrode, sequela
T82.121A	Displacement of cardiac pulse generator (battery), initial encounter
T82.121D	Displacement of cardiac pulse generator (battery), subsequent encounter
T82.121S	Displacement of cardiac pulse generator (battery), sequela
T82.128A	Displacement of other cardiac electronic device, initial encounter
T82.128D	Displacement of other cardiac electronic device, subsequent encounter
T82.128S	Displacement of other cardiac electronic device, sequela
T82.129A	Displacement of unspecified cardiac electronic device, initial encounter
T82.129D	Displacement of unspecified cardiac electronic device, subsequent encounter
T82.129S	Displacement of unspecified cardiac electronic device, sequela
T82.190A	Other mechanical complication of cardiac electrode, initial encounter
T82.190D	Other mechanical complication of cardiac electrode, subsequent encounter
T82.190S	Other mechanical complication of cardiac electrode, sequela
T82.191A	Other mechanical complication of cardiac pulse generator (battery), initial encounter
T82.191D	Other mechanical complication of cardiac pulse generator (battery), subsequent encounter
T82.191S	Other mechanical complication of cardiac pulse generator (battery), sequela
T82.198A	Other mechanical complication of other cardiac electronic device, initial encounter
T82.198D	Other mechanical complication of other cardiac electronic device, subsequent encounter
T82.198S	Other mechanical complication of other cardiac electronic device, sequela
T82.199A	Other mechanical complication of unspecified cardiac device, initial encounter
T82.199D	Other mechanical complication of unspecified cardiac device, subsequent encounter

ICD-10 CODE	DESCRIPTION
T82.199S	Other mechanical complication of unspecified cardiac device, sequela
T82.211A	Breakdown (mechanical) of coronary artery bypass graft, initial encounter
T82.211D	Breakdown (mechanical) of coronary artery bypass graft, subsequent encounter
T82.211S	Breakdown (mechanical) of coronary artery bypass graft, sequela
T82.212A	Displacement of coronary artery bypass graft, initial encounter
T82.212D	Displacement of coronary artery bypass graft, subsequent encounter
T82.212S	Displacement of coronary artery bypass graft, sequela
T82.213A	Leakage of coronary artery bypass graft, initial encounter
T82.213D	Leakage of coronary artery bypass graft, subsequent encounter
T82.213S	Leakage of coronary artery bypass graft, sequela
T82.218A	Other mechanical complication of coronary artery bypass graft, initial encounter
T82.218D	Other mechanical complication of coronary artery bypass graft, subsequent encounter
T82.218S	Other mechanical complication of coronary artery bypass graft, sequela
T82.221A	Breakdown (mechanical) of biological heart valve graft, initial encounter
T82.221D	Breakdown (mechanical) of biological heart valve graft, subsequent encounter
ICD-10 CODE	DESCRIPTION
T82.221S	Breakdown (mechanical) of biological heart valve graft, sequela
T82.222A	Displacement of biological heart valve graft, initial encounter
T82.222D	Displacement of biological heart valve graft, subsequent encounter
T82.222S	Displacement of biological heart valve graft, sequela
T82.223A	Leakage of biological heart valve graft, initial encounter
T82.223D	Leakage of biological heart valve graft, subsequent encounter
T82.223S	Leakage of biological heart valve graft, sequela
T82.228A	Other mechanical complication of biological heart valve graft, initial encounter
T82.228D	Other mechanical complication of biological heart valve graft, subsequent encounter
T82.228S	Other mechanical complication of biological heart valve graft, sequela
T82.310A	Breakdown (mechanical) of aortic (bifurcation) graft (replacement), initial encounter
T82.310D	Breakdown (mechanical) of aortic (bifurcation) graft (replacement), subsequent encounter
T82.310S	Breakdown (mechanical) of aortic (bifurcation) graft (replacement), sequela
T82.311A	Breakdown (mechanical) of carotid arterial graft (bypass), initial encounter

ICD-10 CODE	DESCRIPTION
T82.311D	Breakdown (mechanical) of carotid arterial graft (bypass), subsequent encounter
T82.311S	Breakdown (mechanical) of carotid arterial graft (bypass), sequela
T82.312A	Breakdown (mechanical) of femoral arterial graft (bypass), initial encounter
T82.312D	Breakdown (mechanical) of femoral arterial graft (bypass), subsequent encounter
T82.312S	Breakdown (mechanical) of femoral arterial graft (bypass), sequela
T82.318A	Breakdown (mechanical) of other vascular grafts, initial encounter
T82.318D	Breakdown (mechanical) of other vascular grafts, subsequent encounter
T82.318S	Breakdown (mechanical) of other vascular grafts, sequela
T82.319A	Breakdown (mechanical) of unspecified vascular grafts, initial encounter
T82.319D	Breakdown (mechanical) of unspecified vascular grafts, subsequent encounter
T82.319S	Breakdown (mechanical) of unspecified vascular grafts, sequela
T82.320A	Displacement of aortic (bifurcation) graft (replacement), initial encounter
T82.320D	Displacement of aortic (bifurcation) graft (replacement), subsequent encounter
T82.320S	Displacement of aortic (bifurcation) graft (replacement), sequela
T82.321A	Displacement of carotid arterial graft (bypass), initial encounter
T82.321D	Displacement of carotid arterial graft (bypass), subsequent encounter
T82.321S	Displacement of carotid arterial graft (bypass), sequela
T82.322A	Displacement of femoral arterial graft (bypass), initial encounter
T82.322D	Displacement of femoral arterial graft (bypass), subsequent encounter
T82.322S	Displacement of femoral arterial graft (bypass), sequela
T82.328A	Displacement of other vascular grafts, initial encounter
T82.328D	Displacement of other vascular grafts, subsequent encounter
T82.328S	Displacement of other vascular grafts, sequela
T82.329A	Displacement of unspecified vascular grafts, initial encounter
T82.329D	Displacement of unspecified vascular grafts, subsequent encounter
T82.329S	Displacement of unspecified vascular grafts, sequela
T82.330A	Leakage of aortic (bifurcation) graft (replacement), initial encounter
T82.330D	Leakage of aortic (bifurcation) graft (replacement), subsequent encounter
T82.330S	Leakage of aortic (bifurcation) graft (replacement), sequela
T82.331A	Leakage of carotid arterial graft (bypass), initial encounter
T82.331D	Leakage of carotid arterial graft (bypass), subsequent encounter
T82.331S	Leakage of carotid arterial graft (bypass), sequela

ICD-10 CODE	DESCRIPTION
T82.332A	Leakage of femoral arterial graft (bypass), initial encounter
T82.332D	Leakage of femoral arterial graft (bypass), subsequent encounter
T82.332S	Leakage of femoral arterial graft (bypass), sequela
T82.338A	Leakage of other vascular grafts, initial encounter
T82.338D	Leakage of other vascular grafts, subsequent encounter
T82.338S	Leakage of other vascular grafts, sequela
T82.339A	Leakage of unspecified vascular graft, initial encounter
T82.339D	Leakage of unspecified vascular graft, subsequent encounter
T82.339S	Leakage of unspecified vascular graft, sequela
T82.390A	Other mechanical complication of aortic (bifurcation) graft (replacement), initial encounter
T82.390D	Other mechanical complication of aortic (bifurcation) graft (replacement), subsequent encounter
T82.390S	Other mechanical complication of aortic (bifurcation) graft (replacement), sequela
T82.391A	Other mechanical complication of carotid arterial graft (bypass), initial encounter
T82.391D	Other mechanical complication of carotid arterial graft (bypass), subsequent encounter
T82.391S	Other mechanical complication of carotid arterial graft (bypass), sequela
T82.392A	Other mechanical complication of femoral arterial graft (bypass), initial encounter
T82.392D	Other mechanical complication of femoral arterial graft (bypass), subsequent encounter
T82.392S	Other mechanical complication of femoral arterial graft (bypass), sequela
T82.398A	Other mechanical complication of other vascular grafts, initial encounter
T82.398D	Other mechanical complication of other vascular grafts, subsequent encounter
T82.398S	Other mechanical complication of other vascular grafts, sequela
T82.399A	Other mechanical complication of unspecified vascular grafts, initial encounter
T82.399D	Other mechanical complication of unspecified vascular grafts, subsequent encounter
T82.399S	Other mechanical complication of unspecified vascular grafts, sequela
T82.41XA	Breakdown (mechanical) of vascular dialysis catheter, initial encounter
T82.41XD	Breakdown (mechanical) of vascular dialysis catheter, subsequent encounter
T82.41XS	Breakdown (mechanical) of vascular dialysis catheter, sequela
T82.42XA	Displacement of vascular dialysis catheter, initial encounter
T82.42XD	Displacement of vascular dialysis catheter, subsequent encounter

ICD-10 CODE	DESCRIPTION
T82.42XS	Displacement of vascular dialysis catheter, sequela
T82.43XA	Leakage of vascular dialysis catheter, initial encounter
T82.43XD	Leakage of vascular dialysis catheter, subsequent encounter
T82.43XS	Leakage of vascular dialysis catheter, sequela
T82.49XA	Other complication of vascular dialysis catheter, initial encounter
T82.49XD	Other complication of vascular dialysis catheter, subsequent encounter
T82.49XS	Other complication of vascular dialysis catheter, sequela
T82.510A	Breakdown (mechanical) of surgically created arteriovenous fistula, initial encounter
T82.510D	Breakdown (mechanical) of surgically created arteriovenous fistula, subsequent encounter
T82.510S	Breakdown (mechanical) of surgically created arteriovenous fistula, sequela
T82.511A	Breakdown (mechanical) of surgically created arteriovenous shunt, initial encounter
T82.511D	Breakdown (mechanical) of surgically created arteriovenous shunt, subsequent encounter
T82.511S	Breakdown (mechanical) of surgically created arteriovenous shunt, sequela
T82.512A	Breakdown (mechanical) of artificial heart, initial encounter
T82.512D	Breakdown (mechanical) of artificial heart, subsequent encounter
T82.512S	Breakdown (mechanical) of artificial heart, sequela
T82.513A	Breakdown (mechanical) of balloon (counterpulsation) device, initial encounter
T82.513D	Breakdown (mechanical) of balloon (counterpulsation) device, subsequent encounter
T82.513S	Breakdown (mechanical) of balloon (counterpulsation) device, sequela
T82.514A	Breakdown (mechanical) of infusion catheter, initial encounter
T82.514D	Breakdown (mechanical) of infusion catheter, subsequent encounter
T82.514S	Breakdown (mechanical) of infusion catheter, sequela
T82.515A	Breakdown (mechanical) of umbrella device, initial encounter
T82.515D	Breakdown (mechanical) of umbrella device, subsequent encounter
T82.515S	Breakdown (mechanical) of umbrella device, sequela
ICD-10 CODE	DESCRIPTION
T82.518A	Breakdown (mechanical) of other cardiac and vascular devices and implants, initial encounter
T82.518D	Breakdown (mechanical) of other cardiac and vascular devices and implants, subsequent encounter

ICD-10 CODE	DESCRIPTION
T82.518S	Breakdown (mechanical) of other cardiac and vascular devices and implants, sequela
T82.519A	Breakdown (mechanical) of unspecified cardiac and vascular devices and implants, initial encounter
T82.519D	Breakdown (mechanical) of unspecified cardiac and vascular devices and implants, subsequent encounter
T82.519S	Breakdown (mechanical) of unspecified cardiac and vascular devices and implants, sequela
T82.520A	Displacement of surgically created arteriovenous fistula, initial encounter
T82.520D	Displacement of surgically created arteriovenous fistula, subsequent encounter
T82.520S	Displacement of surgically created arteriovenous fistula, sequela
T82.521A	Displacement of surgically created arteriovenous shunt, initial encounter
T82.521D	Displacement of surgically created arteriovenous shunt, subsequent encounter
T82.521S	Displacement of surgically created arteriovenous shunt, sequela
T82.522A	Displacement of artificial heart, initial encounter
T82.522D	Displacement of artificial heart, subsequent encounter
T82.522S	Displacement of artificial heart, sequela
T82.523A	Displacement of balloon (counterpulsation) device, initial encounter
T82.523D	Displacement of balloon (counterpulsation) device, subsequent encounter
T82.523S	Displacement of balloon (counterpulsation) device, sequela
T82.524A	Displacement of infusion catheter, initial encounter
T82.524D	Displacement of infusion catheter, subsequent encounter
T82.524S	Displacement of infusion catheter, sequela
T82.525A	Displacement of umbrella device, initial encounter
T82.525D	Displacement of umbrella device, subsequent encounter
T82.525S	Displacement of umbrella device, sequela
T82.528A	Displacement of other cardiac and vascular devices and implants, initial encounter
T82.528D	Displacement of other cardiac and vascular devices and implants, subsequent encounter
T82.528S	Displacement of other cardiac and vascular devices and implants, sequela
T82.529A	Displacement of unspecified cardiac and vascular devices and implants, initial encounter
T82.529D	Displacement of unspecified cardiac and vascular devices and implants, subsequent encounter

ICD-10 CODE	DESCRIPTION
T82.529S	Displacement of unspecified cardiac and vascular devices and implants, sequela
T82.530A	Leakage of surgically created arteriovenous fistula, initial encounter
T82.530D	Leakage of surgically created arteriovenous fistula, subsequent encounter
T82.530S	Leakage of surgically created arteriovenous fistula, sequela
T82.531A	Leakage of surgically created arteriovenous shunt, initial encounter
T82.531D	Leakage of surgically created arteriovenous shunt, subsequent encounter
T82.531S	Leakage of surgically created arteriovenous shunt, sequela
T82.532A	Leakage of artificial heart, initial encounter
T82.532D	Leakage of artificial heart, subsequent encounter
T82.532S	Leakage of artificial heart, sequela
T82.533A	Leakage of balloon (counterpulsation) device, initial encounter
T82.533D	Leakage of balloon (counterpulsation) device, subsequent encounter
T82.533S	Leakage of balloon (counterpulsation) device, sequela
T82.534A	Leakage of infusion catheter, initial encounter
T82.534D	Leakage of infusion catheter, subsequent encounter
T82.534S	Leakage of infusion catheter, sequela
T82.535A	Leakage of umbrella device, initial encounter
T82.535D	Leakage of umbrella device, subsequent encounter
T82.535S	Leakage of umbrella device, sequela
T82.538A	Leakage of other cardiac and vascular devices and implants, initial encounter
T82.538D	Leakage of other cardiac and vascular devices and implants, subsequent encounter
T82.538S	Leakage of other cardiac and vascular devices and implants, sequela
T82.539A	Leakage of unspecified cardiac and vascular devices and implants, initial encounter
T82.539D	Leakage of unspecified cardiac and vascular devices and implants, subsequent encounter
T82.539S	Leakage of unspecified cardiac and vascular devices and implants, sequela
T82.590A	Other mechanical complication of surgically created arteriovenous fistula, initial encounter
T82.590D	Other mechanical complication of surgically created arteriovenous fistula, subsequent encounter
T82.590S	Other mechanical complication of surgically created arteriovenous fistula, sequela
T82.591A	Other mechanical complication of surgically created arteriovenous shunt, initial encounter

ICD-10 CODE	DESCRIPTION
T82.591D	Other mechanical complication of surgically created arteriovenous shunt, subsequent encounter
T82.591S	Other mechanical complication of surgically created arteriovenous shunt, sequela
T82.592A	Other mechanical complication of artificial heart, initial encounter
T82.592D	Other mechanical complication of artificial heart, subsequent encounter
T82.592S	Other mechanical complication of artificial heart, sequela
T82.593A	Other mechanical complication of balloon (counterpulsation) device, initial encounter
T82.593D	Other mechanical complication of balloon (counterpulsation) device, subsequent encounter
T82.593S	Other mechanical complication of balloon (counterpulsation) device, sequela
T82.594A	Other mechanical complication of infusion catheter, initial encounter
T82.594D	Other mechanical complication of infusion catheter, subsequent encounter
T82.594S	Other mechanical complication of infusion catheter, sequela
T82.595A	Other mechanical complication of umbrella device, initial encounter
T82.595D	Other mechanical complication of umbrella device, subsequent encounter
T82.595S	Other mechanical complication of umbrella device, sequela
T82.598A	Other mechanical complication of other cardiac and vascular devices and implants, initial encounter
T82.598D	Other mechanical complication of other cardiac and vascular devices and implants, subsequent encounter
T82.598S	Other mechanical complication of other cardiac and vascular devices and implants, sequela
T82.599A	Other mechanical complication of unspecified cardiac and vascular devices and implants, initial encounter
T82.599D	Other mechanical complication of unspecified cardiac and vascular devices and implants, subsequent encounter
T82.599S	Other mechanical complication of unspecified cardiac and vascular devices and implants, sequela
T82.6XXA	Infection and inflammatory reaction due to cardiac valve prosthesis, initial encounter
T82.6XXD	Infection and inflammatory reaction due to cardiac valve prosthesis, subsequent encounter
T82.6XXS	Infection and inflammatory reaction due to cardiac valve prosthesis, sequela
T82.7XXA	Infection and inflammatory reaction due to other cardiac and vascular devices, implants and grafts, initial encounter

ICD-10 CODE	DESCRIPTION
T82.7XXD	Infection and inflammatory reaction due to other cardiac and vascular devices, implants and grafts, subsequent encounter
T82.7XXS	Infection and inflammatory reaction due to other cardiac and vascular devices, implants and grafts, sequela
T82.817A	Embolism due to cardiac prosthetic devices, implants and grafts, initial encounter
T82.817D	Embolism due to cardiac prosthetic devices, implants and grafts, subsequent encounter
T82.817S	Embolism due to cardiac prosthetic devices, implants and grafts, sequela
T82.827A	Fibrosis due to cardiac prosthetic devices, implants and grafts, initial encounter
T82.827D	Fibrosis due to cardiac prosthetic devices, implants and grafts, subsequent encounter
T82.827S	Fibrosis due to cardiac prosthetic devices, implants and grafts, sequela
T82.837A	Hemorrhage due to cardiac prosthetic devices, implants and grafts, initial encounter
T82.837D	Hemorrhage due to cardiac prosthetic devices, implants and grafts, subsequent encounter
T82.837S	Hemorrhage due to cardiac prosthetic devices, implants and grafts, sequela
T82.847A	Pain due to cardiac prosthetic devices, implants and grafts, initial encounter
T82.847D	Pain due to cardiac prosthetic devices, implants and grafts, subsequent encounter
T82.847S	Pain due to cardiac prosthetic devices, implants and grafts, sequela
T82.857A	Stenosis of other cardiac prosthetic devices, implants and grafts, initial encounter
T82.857D	Stenosis of other cardiac prosthetic devices, implants and grafts, subsequent encounter
T82.857S	Stenosis of other cardiac prosthetic devices, implants and grafts, sequela
T82.867A	Thrombosis due to cardiac prosthetic devices, implants and grafts, initial encounter
ICD-10 CODE	DESCRIPTION
T82.867D	Thrombosis due to cardiac prosthetic devices, implants and grafts, subsequent encounter
T82.867S	Thrombosis due to cardiac prosthetic devices, implants and grafts, sequela
T82.897A	Other specified complication of cardiac prosthetic devices, implants and grafts, initial encounter
T82.897D	Other specified complication of cardiac prosthetic devices, implants and grafts, subsequent encounter
T82.897S	Other specified complication of cardiac prosthetic devices, implants and grafts, sequela
T82.9XXA	Unspecified complication of cardiac and vascular prosthetic device, implant and

ICD-10 CODE	DESCRIPTION
	graft, initial encounter
T82.9XXD	Unspecified complication of cardiac and vascular prosthetic device, implant and graft, subsequent encounter
T82.9XXS	Unspecified complication of cardiac and vascular prosthetic device, implant and graft, sequela
T84.50XA	Infection and inflammatory reaction due to unspecified internal joint prosthesis, initial encounter
T84.50XD	Infection and inflammatory reaction due to unspecified internal joint prosthesis, subsequent encounter
T84.50XS	Infection and inflammatory reaction due to unspecified internal joint prosthesis, sequela
T84.51XA	Infection and inflammatory reaction due to internal right hip prosthesis, initial encounter
T84.51XD	Infection and inflammatory reaction due to internal right hip prosthesis, subsequent encounter
T84.51XS	Infection and inflammatory reaction due to internal right hip prosthesis, sequela
T84.52XA	Infection and inflammatory reaction due to internal left hip prosthesis, initial encounter
T84.52XD	Infection and inflammatory reaction due to internal left hip prosthesis, subsequent encounter
T84.52XS	Infection and inflammatory reaction due to internal left hip prosthesis, sequela
T84.53XA	Infection and inflammatory reaction due to internal right knee prosthesis, initial encounter
T84.53XD	Infection and inflammatory reaction due to internal right knee prosthesis, subsequent encounter
T84.53XS	Infection and inflammatory reaction due to internal right knee prosthesis, sequela
T84.54XA	Infection and inflammatory reaction due to internal left knee prosthesis, initial encounter
T84.54XD	Infection and inflammatory reaction due to internal left knee prosthesis, subsequent encounter
T84.54XS	Infection and inflammatory reaction due to internal left knee prosthesis, sequela
T84.59XA	Infection and inflammatory reaction due to other internal joint prosthesis, initial encounter
T84.59XD	Infection and inflammatory reaction due to other internal joint prosthesis, subsequent encounter
T84.59XS	Infection and inflammatory reaction due to other internal joint prosthesis, sequela

ICD-10 CODE	DESCRIPTION
T85.79XA	Infection and inflammatory reaction due to other internal prosthetic devices, implants and grafts, initial encounter
T85.79XD	Infection and inflammatory reaction due to other internal prosthetic devices, implants and grafts, subsequent encounter
T85.79XS	Infection and inflammatory reaction due to other internal prosthetic devices, implants and grafts, sequela
T86.20	Unspecified complication of heart transplant
T86.21	Heart transplant rejection
T86.22	Heart transplant failure
T86.23	Heart transplant infection
T86.290	Cardiac allograft vasculopathy
T86.298	Other complications of heart transplant
T86.30	Unspecified complication of heart-lung transplant
T86.31	Heart-lung transplant rejection
T86.32	Heart-lung transplant failure
T86.33	Heart-lung transplant infection
T86.39	Other complications of heart-lung transplant
Z01.810	Encounter for preprocedural cardiovascular examination
Z01.818	Encounter for other preprocedural examination
Z01.89	Encounter for other specified special examinations
Z08	Encounter for follow-up examination after completed treatment for malignant neoplasm
Z09	Encounter for follow-up examination after completed treatment for conditions other than malignant neoplasm
Z13.6	Encounter for screening for cardiovascular disorders
Z48.21	Encounter for aftercare following heart transplant
Z48.280	Encounter for aftercare following heart-lung transplant
Z51.81	Encounter for therapeutic drug level monitoring
Z94.1	Heart transplant status
Z94.3	Heart and lungs transplant status
Z95.2	Presence of prosthetic heart valve
Z95.3	Presence of xenogenic heart valve
Z95.4	Presence of other heart-valve replacement

ICD-10 Codes that DO NOT Support Medical Necessity

Group 1 Paragraph:

All those not listed under the "ICD-10 Codes that Support Medical Necessity" section of this article.

Group 1 Codes:

ICD-10 CODE	DESCRIPTION
XX000	Not Applicable

Additional ICD-10 Information

N/A

Bill Type Codes:

Contractors may specify Bill Types to help providers identify those Bill Types typically used to report this service. Absence of a Bill Type does not guarantee that the policy does not apply to that Bill Type. Complete absence of all Bill Types indicates that coverage is not influenced by Bill Type and the policy should be assumed to apply equally to all claims.

CODE	DESCRIPTION
999x	Not Applicable

Revenue Codes:

Contractors may specify Revenue Codes to help providers identify those Revenue Codes typically used to report this service. In most instances Revenue Codes are purely advisory. Unless specified in the policy, services reported under other Revenue Codes are equally subject to this coverage determination. Complete absence of all Revenue Codes indicates that coverage is not influenced by Revenue Code and the policy should be assumed to apply equally to all Revenue Codes.

CODE	DESCRIPTION
99999	Not Applicable

Other Coding Information

N/A

Revision History Information

REVISION HISTORY DATE	REVISION HISTORY NUMBER	REVISION HISTORY EXPLANATION
04/09/2020	R1	<p>Revision Number: 1 Publication: April 2020 Connection LCR A/B2020-021</p> <p>Explanation of Revision: Based on a review, this billing and coding article was revised to add ICD-10-CM diagnosis code Z01.810 to the "ICD-10 Codes that Support Medical Necessity/Group 1 Codes:" section. The effective date of this revision is based on date of service.</p>

Associated Documents

Related Local Coverage Document(s)

Article(s)

A58055 - Transthoracic echocardiography (TTE) - revision to the Part A and Part B billing and coding article

LCD(s)

L33768 - Transthoracic Echocardiography (TTE)

Related National Coverage Document(s)

N/A

Statutory Requirements URL(s)

N/A

Rules and Regulations URL(s)

N/A

CMS Manual Explanations URL(s)

N/A

Other URL(s)

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