

Article - Billing and Coding: Transesophageal Echocardiography (TEE) (A52868)

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National Government Services, Inc.	MAC - Part B	06102 - MAC B	J - 06	Illinois
National Government Services, Inc.	MAC - Part A	06201 - MAC A	J - 06	Minnesota
National Government Services, Inc.	MAC - Part B	06202 - MAC B	J - 06	Minnesota
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National Government Services, Inc.	A and B and HHH MAC	14111 - MAC A	J - K	Maine
National Government Services, Inc.	A and B and HHH MAC	14112 - MAC B	J - K	Maine

CONTRACTOR NAME	CONTRACT TYPE	CONTRACT NUMBER	JURISDICTION	STATES
Inc.	MAC			
National Government Services, Inc.	A and B and HHH MAC	14211 - MAC A	J - K	Massachusetts
National Government Services, Inc.	A and B and HHH MAC	14212 - MAC B	J - K	Massachusetts
National Government Services, Inc.	A and B and HHH MAC	14311 - MAC A	J - K	New Hampshire
National Government Services, Inc.	A and B and HHH MAC	14312 - MAC B	J - K	New Hampshire
National Government Services, Inc.	A and B and HHH MAC	14411 - MAC A	J - K	Rhode Island
National Government Services, Inc.	A and B and HHH MAC	14412 - MAC B	J - K	Rhode Island
National Government Services, Inc.	A and B and HHH MAC	14511 - MAC A	J - K	Vermont
National Government Services, Inc.	A and B and HHH MAC	14512 - MAC B	J - K	Vermont

Article Information

General Information

Article ID

A52868

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Article Title

Billing and Coding: Transesophageal Echocardiography (TEE)

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Article Type

Billing and Coding

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CMS National Coverage Policy

N/A

Article Guidance

Article Text

This article contains coding and other guidelines that complement the Local Coverage Determination (LCD) for Transesophageal Echocardiography (TEE).

Coding Information:

Procedure codes may be subject to National Correct Coding Initiative (NCCI) edits or OPPS packaging edits. Refer to NCCI and OPPS requirements prior to billing Medicare.

For services requiring a referring/ordering physician, the name and NPI of the referring/ordering physician must be reported on the claim.

A claim submitted without a valid ICD-10-CM diagnosis code will be returned to the provider as an incomplete claim under Section 1833(e) of the Social Security Act.

The diagnosis code(s) must best describe the patient's condition for which the service was performed. For diagnostic tests report the result of the test if known; otherwise the symptoms prompting the performance of the test should be reported.

CPT coding

Use procedure code 93312 (C8925 for OPPS billing when contrast is used) or 93315 (C8926 for OPPS billing when contrast is used) for the complete procedure, including probe placement, image acquisition, interpretation and report. Code 93315 (C8926 for OPPS billing when contrast is used) should be used for congenital anomalies only.

Use procedure code 93313 or 93316 where the provider is reporting only the insertion of the transesophageal probe. Code 93316 is reserved for congenital anomalies only.

Use procedure code 93314 or 93317 where the provider is reporting the actual manipulation of the probe to obtain images and to provide an interpretation and report. Code 93317 is reserved for congenital anomalies only.

CPT code 93318 (C8927 for OPPS billing when contrast is used) (intraoperative monitoring) is considered part of an anesthesia service and should not be billed separately by the anesthesiologist.

CPT codes 76376 and 76377 and 93319 (3D echocardiography) should be billed in conjunction with the base code for the imaging procedure. For the purposes of this LCD, the base codes for CPT 76376 and 76377 are 93312, 93314,

C8925, 93315, C8926, and 93317 and the base codes for CPT 93319 are 93312, 93314, 93315, C8926, and 93317.

Diagnosis coding

ICD-10-CM code R93.1 or R93.8 should be reported when a TEE (CPT codes 93312, 93313, and 93314) is performed because of inadequate visualization of cardiac anatomy on TTE, for structures normally visualized by TTE and for which TEE is not usually indicated. ICD-10-CM code R93.1 or R93.8 should be reported as the primary diagnosis and the cardiac abnormality should be coded as a secondary diagnosis.

ICD-10-CM code Z01.89 should be reported when a TEE is performed during an open chest procedure. ICD-10-CM code Z01.89 should be reported as the primary diagnosis and the reason for the surgical procedure should be coded as the secondary diagnosis.

For add-on CPT codes 93319, 93320, 93321 and 93325, the ICD-10-CM codes reported should be the same as those reported for the base codes to which they are attached.

Bundled services

Procedure codes may be subject to National Correct Coding Initiative (NCCI) edits or OPPS packaging edits. Refer to NCCI and OPPS requirements prior to billing Medicare.

CPT codes 93312-93318 include conscious sedation. Therefore sedation should not be billed separately, and if it is, will be bundled into the primary procedure code.

For claims submitted to the Part B MAC:

All services/procedures performed on the same day for the same beneficiary by the physician/provider should be billed on the same claim.

For claims submitted to the Part A MAC:

The OPPS does not apply to claims for every type of bill submitted by Medicare-certified providers. The following guidelines pertain to claims for bill types that are subject to the OPPS:

Hospitals are required to include HCPCS codes for all services paid under the OPPS.

HCPCS codes C8925, C8926, and C8927 should be used to report transesophageal echocardiography services by OPPS hospitals when contrast is used. If the transesophageal echocardiography services are performed without contrast, OPPS hospitals should report CPT codes from the 9xxxx series, as appropriate.

Every effort should be made to report all services performed on the same day on the same claim to assure proper payment under the OPPS. Claims submitted for the same date of service will be returned to the provider (except duplicates or those containing condition code 20 or 21) with a notification that an adjustment bill should be submitted (CMS Program Memorandum, Transmittal No. A-00-36, Change Request #1229, June 2000).

Documentation Requirements:

A covered service must include a complete interpretation/report by the performing physician, and must be available if requested.

The patient's medical record must contain documentation that fully supports the medical necessity for services included within the attached LCD. (See "Indications and Limitations of Coverage.") This documentation includes, but

is not limited to, relevant medical history, physical examination, and results of pertinent diagnostic tests or procedures, as well as reasons for repeat testing.

In those instances in which repeat tests were denied, the physician must document a good faith effort was made to identify them and to request copies of them from previous providers, in order for NGS to consider reimbursement for such tests on appeal.

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. All appropriate measurements should be included in the report.

A Doppler interrogation should state the modes used and should give both qualitative and quantitative information.

Documentation of the qualifications of personnel performing tests, as described in the Indications section of the LCD, should be available on request.

All documentation must be submitted upon request.

Utilization Guidelines:

1. TEE services will be covered twice per year for all conditions except endocarditis (ICD-10 code I39), for which four (4) services per year will be covered.
2. TEE may be repeated in patients with repeat episodes of atrial fibrillation/flutter prior to cardioversion.
3. Services exceeding this parameter will be considered not medically necessary, unless there is documentation that the tests were performed for clinical indications reflecting a change in the patient's status or underlying cardiac condition, or documentation of a new unrelated condition, sign or symptom.
4. In those instances in which repeat tests were denied and a physician has documented a good faith effort to identify them and to request copies of them from previous providers, then NGS could reimburse such tests on appeal.
5. These guidelines do not apply to tests performed on hospital inpatients.

Coding Information

CPT/HCPCS Codes

Group 1 Paragraph:

N/A

Group 1 Codes: (16 Codes)

CODE	DESCRIPTION
76376	3D RENDERING WITH INTERPRETATION AND REPORTING OF COMPUTED TOMOGRAPHY, MAGNETIC RESONANCE IMAGING, ULTRASOUND, OR OTHER TOMOGRAPHIC MODALITY WITH IMAGE POSTPROCESSING UNDER CONCURRENT SUPERVISION; NOT REQUIRING IMAGE POSTPROCESSING ON AN INDEPENDENT WORKSTATION

CODE	DESCRIPTION
76377	3D RENDERING WITH INTERPRETATION AND REPORTING OF COMPUTED TOMOGRAPHY, MAGNETIC RESONANCE IMAGING, ULTRASOUND, OR OTHER TOMOGRAPHIC MODALITY WITH IMAGE POSTPROCESSING UNDER CONCURRENT SUPERVISION; REQUIRING IMAGE POSTPROCESSING ON AN INDEPENDENT WORKSTATION
93312	ECHOCARDIOGRAPHY, TRANSESOPHAGEAL, REAL-TIME WITH IMAGE DOCUMENTATION (2D) (WITH OR WITHOUT M-MODE RECORDING); INCLUDING PROBE PLACEMENT, IMAGE ACQUISITION, INTERPRETATION AND REPORT
93313	ECHOCARDIOGRAPHY, TRANSESOPHAGEAL, REAL-TIME WITH IMAGE DOCUMENTATION (2D) (WITH OR WITHOUT M-MODE RECORDING); PLACEMENT OF TRANSESOPHAGEAL PROBE ONLY
93314	ECHOCARDIOGRAPHY, TRANSESOPHAGEAL, REAL-TIME WITH IMAGE DOCUMENTATION (2D) (WITH OR WITHOUT M-MODE RECORDING); IMAGE ACQUISITION, INTERPRETATION AND REPORT ONLY
93315	TRANSESOPHAGEAL ECHOCARDIOGRAPHY FOR CONGENITAL CARDIAC ANOMALIES; INCLUDING PROBE PLACEMENT, IMAGE ACQUISITION, INTERPRETATION AND REPORT
93316	TRANSESOPHAGEAL ECHOCARDIOGRAPHY FOR CONGENITAL CARDIAC ANOMALIES; PLACEMENT OF TRANSESOPHAGEAL PROBE ONLY
93317	TRANSESOPHAGEAL ECHOCARDIOGRAPHY FOR CONGENITAL CARDIAC ANOMALIES; IMAGE ACQUISITION, INTERPRETATION AND REPORT ONLY
93318	ECHOCARDIOGRAPHY, TRANSESOPHAGEAL (TEE) FOR MONITORING PURPOSES, INCLUDING PROBE PLACEMENT, REAL TIME 2-DIMENSIONAL IMAGE ACQUISITION AND INTERPRETATION LEADING TO ONGOING (CONTINUOUS) ASSESSMENT OF (DYNAMICALLY CHANGING) CARDIAC PUMPING FUNCTION AND TO THERAPEUTIC MEASURES ON AN IMMEDIATE TIME BASIS
93319	3D ECHOCARDIOGRAPHIC IMAGING AND POSTPROCESSING DURING TRANSESOPHAGEAL ECHOCARDIOGRAPHY, OR DURING TRANSTHORACIC ECHOCARDIOGRAPHY FOR CONGENITAL CARDIAC ANOMALIES, FOR THE ASSESSMENT OF CARDIAC STRUCTURE(S) (EG, CARDIAC CHAMBERS AND VALVES, LEFT ATRIAL APPENDAGE, INTERATRIAL SEPTUM, INTERVENTRICULAR SEPTUM) AND FUNCTION, WHEN PERFORMED (LIST SEPARATELY IN ADDITION TO CODE FOR ECHOCARDIOGRAPHIC IMAGING)
93320	DOPPLER ECHOCARDIOGRAPHY, PULSED WAVE AND/OR CONTINUOUS WAVE WITH SPECTRAL DISPLAY (LIST SEPARATELY IN ADDITION TO CODES FOR ECHOCARDIOGRAPHIC IMAGING); COMPLETE
93321	DOPPLER ECHOCARDIOGRAPHY, PULSED WAVE AND/OR CONTINUOUS WAVE WITH SPECTRAL DISPLAY (LIST SEPARATELY IN ADDITION TO CODES FOR ECHOCARDIOGRAPHIC IMAGING); FOLLOW-UP OR LIMITED STUDY (LIST SEPARATELY IN ADDITION TO CODES FOR ECHOCARDIOGRAPHIC IMAGING)

CODE	DESCRIPTION
93325	DOPPLER ECHOCARDIOGRAPHY COLOR FLOW VELOCITY MAPPING (LIST SEPARATELY IN ADDITION TO CODES FOR ECHOCARDIOGRAPHY)
C8925	TRANSESOPHAGEAL ECHOCARDIOGRAPHY (TEE) WITH CONTRAST, OR WITHOUT CONTRAST FOLLOWED BY WITH CONTRAST, REAL TIME WITH IMAGE DOCUMENTATION (2D) (WITH OR WITHOUT M-MODE RECORDING); INCLUDING PROBE PLACEMENT, IMAGE ACQUISITION, INTERPRETATION AND REPORT
C8926	TRANSESOPHAGEAL ECHOCARDIOGRAPHY (TEE) WITH CONTRAST, OR WITHOUT CONTRAST FOLLOWED BY WITH CONTRAST, FOR CONGENITAL CARDIAC ANOMALIES; INCLUDING PROBE PLACEMENT, IMAGE ACQUISITION, INTERPRETATION AND REPORT
C8927	TRANSESOPHAGEAL ECHOCARDIOGRAPHY (TEE) WITH CONTRAST, OR WITHOUT CONTRAST FOLLOWED BY WITH CONTRAST, FOR MONITORING PURPOSES, INCLUDING PROBE PLACEMENT, REAL TIME 2-DIMENSIONAL IMAGE ACQUISITION AND INTERPRETATION LEADING TO ONGOING (CONTINUOUS) ASSESSMENT OF (DYNAMICALLY CHANGING) CARDIAC PUMPING FUNCTION AND TO THERAPEUTIC MEASURES ON AN IMMEDIATE TIME BASIS

CPT/HCPCS Modifiers

N/A

ICD-10-CM Codes that Support Medical Necessity

Group 1 Paragraph:

The correct use of an ICD-10-CM code does not assure coverage of a service. The service must be reasonable and necessary in the specific case and must meet the criteria specified in the attached determination.

The following diagnoses are covered for CPT codes 93312, 93313, 93314 and C8925. (When reporting add-on CPT codes 93319, 93320, 93321 and 93325, the same ICD-10-CM code should be used as that used for the base code to which it is attached):

Use ICD-10 codes R93.1 or R93.89 when a TEE is performed because of inadequate visualization of cardiac anatomy on TTE, for structures normally visualized by TTE and for which TEE is not usually indicated. The ICD-10 codes R93.1 or R93.89 should be coded as the primary diagnosis and the cardiac abnormality should be coded as a secondary diagnosis.

Use ICD-10 codes Z01.30, Z01.31, or Z01.89 when a TEE is performed during an open chest procedure. ICD-10 codes Z01.30, Z01.31, or Z01.89 should be coded as the primary diagnosis and the reason for the surgical procedure should be coded as the secondary diagnosis.

Group 1 Codes: (704 Codes)

CODE	DESCRIPTION
A02.1	Salmonella sepsis
A18.84	Tuberculosis of heart
A22.7	Anthrax sepsis
A26.7	Erysipelothrix sepsis
A32.7	Listerial sepsis
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
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
A54.86	Gonococcal sepsis
B37.7	Candidal sepsis

CODE	DESCRIPTION
C38.0	Malignant neoplasm of heart
C45.2	Mesothelioma of pericardium
C79.89	Secondary malignant neoplasm of other specified sites
C79.9	Secondary malignant neoplasm of unspecified site
D15.1	Benign neoplasm of heart
D48.7	Neoplasm of uncertain behavior of other specified sites
D49.89	Neoplasm of unspecified behavior of other specified sites
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
G45.8	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
I01.1	Acute rheumatic endocarditis
I01.2	Acute rheumatic myocarditis
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
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

CODE	DESCRIPTION
I09.1	Rheumatic diseases of endocardium, valve unspecified
I09.89	Other specified rheumatic heart diseases
I09.9	Rheumatic heart disease, unspecified
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
I25.3	Aneurysm of heart
I25.41	Coronary artery aneurysm
I25.42	Coronary artery dissection
I25.82	Chronic total occlusion of coronary artery
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
I26.99	Other pulmonary embolism without acute cor pulmonale
I28.0	Arteriovenous fistula of pulmonary vessels
I28.1	Aneurysm of pulmonary artery
I31.4	Cardiac tamponade
I33.0	Acute and subacute infective endocarditis
I34.0	Nonrheumatic mitral (valve) insufficiency
I34.1	Nonrheumatic mitral (valve) prolapse

CODE	DESCRIPTION
I34.2	Nonrheumatic mitral (valve) stenosis
I34.81	Nonrheumatic mitral (valve) annulus calcification
I34.89	Other nonrheumatic mitral valve disorders
I34.9	Nonrheumatic mitral valve disorder, unspecified
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
I36.1	Nonrheumatic tricuspid (valve) insufficiency
I36.2	Nonrheumatic tricuspid (valve) stenosis with insufficiency
I36.8	Other nonrheumatic tricuspid valve disorders
CODE	DESCRIPTION
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
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

CODE	DESCRIPTION
I43	Cardiomyopathy in diseases classified elsewhere
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
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
I51.7	Cardiomegaly
I51.81	Takotsubo syndrome
I51.89	Other ill-defined heart diseases
I60.00	Nontraumatic subarachnoid hemorrhage from unspecified carotid siphon and bifurcation
I60.01	Nontraumatic subarachnoid hemorrhage from right carotid siphon and bifurcation
I60.02	Nontraumatic subarachnoid hemorrhage from left carotid siphon and bifurcation
I60.10	Nontraumatic subarachnoid hemorrhage from unspecified middle cerebral artery
I60.11	Nontraumatic subarachnoid hemorrhage from right middle cerebral artery
I60.12	Nontraumatic subarachnoid hemorrhage from left middle cerebral artery
I60.30	Nontraumatic subarachnoid hemorrhage from unspecified posterior communicating artery
I60.31	Nontraumatic subarachnoid hemorrhage from right posterior communicating artery
I60.32	Nontraumatic subarachnoid hemorrhage from left posterior communicating artery
I60.4	Nontraumatic subarachnoid hemorrhage from basilar artery
I60.50	Nontraumatic subarachnoid hemorrhage from unspecified vertebral artery
I60.51	Nontraumatic subarachnoid hemorrhage from right vertebral artery

CODE	DESCRIPTION
I60.52	Nontraumatic subarachnoid hemorrhage from left vertebral artery
I60.6	Nontraumatic subarachnoid hemorrhage from other intracranial arteries
I60.7	Nontraumatic subarachnoid hemorrhage from unspecified intracranial artery
I60.8	Other nontraumatic subarachnoid hemorrhage
I60.9	Nontraumatic subarachnoid hemorrhage, unspecified
I62.9	Nontraumatic intracranial hemorrhage, unspecified
I63.013	Cerebral infarction due to thrombosis of bilateral vertebral arteries
I63.033	Cerebral infarction due to thrombosis of bilateral carotid arteries
I63.113	Cerebral infarction due to embolism of bilateral vertebral arteries
I63.133	Cerebral infarction due to embolism of bilateral carotid arteries
I63.213	Cerebral infarction due to unspecified occlusion or stenosis of bilateral vertebral arteries
I63.233	Cerebral infarction due to unspecified occlusion or stenosis of bilateral carotid arteries
I63.30	Cerebral infarction due to thrombosis of unspecified cerebral artery
I63.311	Cerebral infarction due to thrombosis of right middle cerebral artery
I63.312	Cerebral infarction due to thrombosis of left middle cerebral artery
I63.313	Cerebral infarction due to thrombosis of bilateral middle cerebral arteries
I63.319	Cerebral infarction due to thrombosis of unspecified middle cerebral artery
I63.321	Cerebral infarction due to thrombosis of right anterior cerebral artery
I63.322	Cerebral infarction due to thrombosis of left anterior cerebral artery
I63.323	Cerebral infarction due to thrombosis of bilateral anterior cerebral arteries
I63.329	Cerebral infarction due to thrombosis of unspecified anterior cerebral artery
I63.331	Cerebral infarction due to thrombosis of right posterior cerebral artery
I63.332	Cerebral infarction due to thrombosis of left posterior cerebral artery
I63.333	Cerebral infarction due to thrombosis of bilateral posterior cerebral arteries
I63.339	Cerebral infarction due to thrombosis of unspecified posterior cerebral artery
I63.341	Cerebral infarction due to thrombosis of right cerebellar artery
I63.342	Cerebral infarction due to thrombosis of left cerebellar artery
I63.343	Cerebral infarction due to thrombosis of bilateral cerebellar arteries
I63.349	Cerebral infarction due to thrombosis of unspecified cerebellar artery
I63.39	Cerebral infarction due to thrombosis of other cerebral artery

CODE	DESCRIPTION
I63.40	Cerebral infarction due to embolism of unspecified cerebral artery
I63.411	Cerebral infarction due to embolism of right middle cerebral artery
I63.412	Cerebral infarction due to embolism of left middle cerebral artery
I63.413	Cerebral infarction due to embolism of bilateral middle cerebral arteries
I63.419	Cerebral infarction due to embolism of unspecified middle cerebral artery
I63.421	Cerebral infarction due to embolism of right anterior cerebral artery
I63.422	Cerebral infarction due to embolism of left anterior cerebral artery
I63.423	Cerebral infarction due to embolism of bilateral anterior cerebral arteries
I63.429	Cerebral infarction due to embolism of unspecified anterior cerebral artery
I63.431	Cerebral infarction due to embolism of right posterior cerebral artery
I63.432	Cerebral infarction due to embolism of left posterior cerebral artery
I63.433	Cerebral infarction due to embolism of bilateral posterior cerebral arteries
I63.439	Cerebral infarction due to embolism of unspecified posterior cerebral artery
I63.441	Cerebral infarction due to embolism of right cerebellar artery
I63.442	Cerebral infarction due to embolism of left cerebellar artery
I63.443	Cerebral infarction due to embolism of bilateral cerebellar arteries
I63.449	Cerebral infarction due to embolism of unspecified cerebellar artery
I63.49	Cerebral infarction due to embolism of other cerebral artery
I63.50	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral artery
I63.511	Cerebral infarction due to unspecified occlusion or stenosis of right middle cerebral artery
I63.512	Cerebral infarction due to unspecified occlusion or stenosis of left middle cerebral artery
CODE	DESCRIPTION
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

CODE	DESCRIPTION
	cerebral arteries
I63.529	Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery
I63.531	Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery
I63.532	Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery
I63.533	Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral arteries
I63.539	Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery
I63.541	Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery
I63.542	Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery
I63.543	Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries
I63.549	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery
I63.59	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery
I63.6	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic
I63.81	Other cerebral infarction due to occlusion or stenosis of small artery
I63.89	Other cerebral infarction
I63.9	Cerebral infarction, unspecified
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

CODE	DESCRIPTION
I66.3	Occlusion and stenosis of cerebellar arteries
I66.9	Occlusion and stenosis of unspecified cerebral artery
I67.841	Reversible cerebrovascular vasoconstriction syndrome
I67.848	Other cerebrovascular vasospasm and vasoconstriction
I67.89	Other cerebrovascular disease
I70.0	Atherosclerosis of aorta
I71.00	Dissection of unspecified site of aorta
I71.010	Dissection of ascending aorta
I71.011	Dissection of aortic arch
I71.012	Dissection of descending thoracic aorta
I71.019	Dissection of thoracic aorta, unspecified
I71.03	Dissection of thoracoabdominal aorta
I71.10	Thoracic aortic aneurysm, ruptured, unspecified
I71.11	Aneurysm of the ascending aorta, ruptured
I71.12	Aneurysm of the aortic arch, ruptured
I71.13	Aneurysm of the descending thoracic aorta, ruptured
I71.20	Thoracic aortic aneurysm, without rupture, unspecified
I71.21	Aneurysm of the ascending aorta, without rupture
I71.22	Aneurysm of the aortic arch, without rupture
I71.23	Aneurysm of the descending thoracic aorta, without rupture
I71.50	Thoracoabdominal aortic aneurysm, ruptured, unspecified
I71.51	Supraceliac aneurysm of the abdominal aorta, ruptured
I71.52	Paravisceral aneurysm of the abdominal aorta, ruptured
I71.60	Thoracoabdominal aortic aneurysm, without rupture, unspecified
I71.61	Supraceliac aneurysm of the abdominal aorta, without rupture
I71.62	Paravisceral aneurysm of the abdominal aorta, without rupture
I74.11	Embolism and thrombosis of thoracic aorta
I74.2	Embolism and thrombosis of arteries of the upper extremities
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

CODE	DESCRIPTION
I74.9	Embolism and thrombosis of unspecified artery
I75.89	Atheroembolism of other site
I76	Septic arterial embolism
I77.2	Rupture of artery
I82.220	Acute embolism and thrombosis of inferior vena cava
I82.221	Chronic embolism and thrombosis of inferior vena cava
I87.1	Compression of vein
I95.89	Other hypotension
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
K68.11	Postprocedural retroperitoneal abscess
M32.11	Endocarditis in systemic lupus erythematosus
O90.3	Peripartum cardiomyopathy
Q21.10	Atrial septal defect, unspecified
Q21.11	Secundum atrial septal defect
Q21.12	Patent foramen ovale
Q21.13	Coronary sinus atrial septal defect
Q21.14	Superior sinus venosus atrial septal defect
Q21.15	Inferior sinus venosus atrial septal defect
Q21.16	Sinus venosus atrial septal defect, unspecified
Q21.19	Other specified atrial septal defect
R57.0	Cardiogenic shock
R57.1	Hypovolemic shock
R57.8	Other shock

CODE	DESCRIPTION
R57.9	Shock, unspecified
R65.20	Severe sepsis without septic shock
R65.21	Severe sepsis with septic shock
R78.81	Bacteremia
R93.1	Abnormal findings on diagnostic imaging of heart and coronary circulation
CODE	DESCRIPTION
R93.89	Abnormal findings on diagnostic imaging of other specified body structures
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
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

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

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
S25.90XA	Unspecified injury of unspecified blood vessel of thorax, initial encounter
S25.90XD	Unspecified injury of unspecified blood vessel of thorax, subsequent encounter
S25.90XS	Unspecified injury of unspecified blood vessel of thorax, sequela
S25.91XA	Laceration of unspecified blood vessel of thorax, initial encounter
S25.91XD	Laceration of unspecified blood vessel of thorax, subsequent encounter
S25.91XS	Laceration of unspecified blood vessel of thorax, sequela
S25.99XA	Other specified injury of unspecified blood vessel of thorax, initial encounter
S25.99XD	Other specified injury of unspecified blood vessel of thorax, subsequent encounter
S25.99XS	Other specified injury of unspecified blood vessel of thorax, sequela
S26.00XA	Unspecified injury of heart with hemopericardium, initial encounter
S26.00XD	Unspecified injury of heart with hemopericardium, subsequent encounter
S26.00XS	Unspecified injury of heart with hemopericardium, 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
S26.09XA	Other injury of heart with hemopericardium, initial encounter
S26.09XD	Other injury of heart with hemopericardium, subsequent encounter
S26.09XS	Other injury of heart with hemopericardium, sequela
S26.10XA	Unspecified injury of heart without hemopericardium, initial encounter
S26.10XD	Unspecified injury of heart without hemopericardium, subsequent encounter

CODE	DESCRIPTION
S26.10XS	Unspecified injury of heart without 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
S26.19XA	Other injury of heart without hemopericardium, initial encounter
S26.19XD	Other injury of heart without hemopericardium, subsequent encounter
S26.19XS	Other injury of heart without hemopericardium, sequela
CODE	DESCRIPTION
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
S26.92XS	Laceration of heart, unspecified with or without hemopericardium, sequela
S26.99XA	Other injury of heart, unspecified with or without hemopericardium, initial encounter
S26.99XD	Other injury of heart, unspecified with or without hemopericardium, subsequent encounter
S26.99XS	Other injury of heart, unspecified with or without hemopericardium, sequela
T79.4XXA	Traumatic shock, initial encounter
T79.4XXD	Traumatic shock, subsequent encounter
T79.4XXS	Traumatic shock, sequela
T80.0XXA	Air embolism following infusion, transfusion and therapeutic injection, initial encounter

CODE	DESCRIPTION
T80.0XXD	Air embolism following infusion, transfusion and therapeutic injection, subsequent encounter
T80.0XXS	Air embolism following 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
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
T81.44XA	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

CODE	DESCRIPTION
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
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

CODE	DESCRIPTION
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
T82.199S	Other mechanical complication of unspecified cardiac device, 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
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
CODE	DESCRIPTION
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

CODE	DESCRIPTION
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
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

CODE	DESCRIPTION
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
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
T82.513A	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

CODE	DESCRIPTION
T82.515D	Breakdown (mechanical) of umbrella device, subsequent encounter
T82.515S	Breakdown (mechanical) of umbrella device, sequela
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
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
T82.523A	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

CODE	DESCRIPTION
	encounter
T82.529D	Displacement of unspecified cardiac and vascular devices and implants, subsequent encounter
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
CODE	DESCRIPTION
T82.531S	Leakage of surgically created arteriovenous shunt, 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

CODE	DESCRIPTION
	encounter
T82.591D	Other mechanical complication of surgically created arteriovenous shunt, subsequent encounter
T82.591S	Other mechanical complication of surgically created arteriovenous shunt, 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
T82.7XXD	Infection and inflammatory reaction due to other cardiac and vascular devices, implants and grafts, subsequent encounter

CODE	DESCRIPTION
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
T82.855A - T82.855S	Stenosis of coronary artery stent, initial encounter - Stenosis of coronary artery stent, sequela
T82.856A	Stenosis of peripheral vascular stent, initial encounter
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
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

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

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
Z01.30	Encounter for examination of blood pressure without abnormal findings
Z01.31	Encounter for examination of blood pressure with abnormal findings
Z01.89	Encounter for other specified special examinations
Z48.21	Encounter for aftercare following heart transplant
Z48.24	Encounter for aftercare following lung transplant
Z48.280	Encounter for aftercare following heart-lung transplant
Z52.89	Donor of other specified organs or tissues
Z94.1	Heart transplant status
Z94.2	Lung transplant status
Z94.3	Heart and lungs transplant status
Z95.2	Presence of prosthetic heart valve
CODE	DESCRIPTION
Z98.890	Other specified postprocedural states

Group 2 Paragraph:

The following diagnoses are covered for CPT codes 93315, 93316, 93317 and C8926. (When reporting add-on CPT codes 93319, 93320, 93321 and 93325, the same ICD-10-CM code should be used as that used for the base code to which it is attached):

Group 2 Codes: (74 Codes)

CODE	DESCRIPTION
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
Q20.8	Other congenital malformations of cardiac chambers and connections
Q21.0	Ventricular septal defect
Q21.10	Atrial septal defect, unspecified

CODE	DESCRIPTION
Q21.11	Secundum atrial septal defect
Q21.12	Patent foramen ovale
Q21.13	Coronary sinus atrial septal defect
Q21.14	Superior sinus venosus atrial septal defect
Q21.15	Inferior sinus venosus atrial septal defect
Q21.16	Sinus venosus atrial septal defect, unspecified
Q21.19	Other specified atrial septal defect
Q21.20	Atrioventricular septal defect, unspecified as to partial or complete
Q21.21	Partial atrioventricular septal defect
Q21.22	Transitional atrioventricular septal defect
Q21.23	Complete atrioventricular septal defect
Q21.3	Tetralogy of Fallot
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
Q24.2	Cor triatriatum
Q24.3	Pulmonary infundibular stenosis
Q24.4	Congenital subaortic stenosis
Q24.5	Malformation of coronary vessels
Q24.8	Other specified congenital malformations of heart
Q25.0	Patent ductus arteriosus

CODE	DESCRIPTION
Q25.1	Coarctation of aorta
Q25.21	Interruption of aortic arch
Q25.29	Other atresia of aorta
Q25.3	Supravalvular aortic stenosis
Q25.40 - Q25.49	Congenital malformation of aorta unspecified - Other congenital malformations of aorta
Q25.5	Atresia of pulmonary artery
Q25.6	Stenosis of pulmonary artery
Q25.71	Coarctation of pulmonary artery
Q25.72	Congenital pulmonary arteriovenous malformation
Q25.79	Other congenital malformations of pulmonary artery
Q25.8	Other congenital malformations of other great arteries
Q25.9	Congenital malformation of great arteries, unspecified
Q26.0	Congenital stenosis of vena cava
Q26.1	Persistent left superior vena cava
Q26.2	Total anomalous pulmonary venous connection
Q26.3	Partial anomalous pulmonary venous connection
Q26.4	Anomalous pulmonary venous connection, unspecified
Q26.8	Other congenital malformations of great veins
Q26.9	Congenital malformation of great vein, unspecified
Q87.40	Marfan's syndrome, unspecified
Q87.410	Marfan's syndrome with aortic dilation
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

Group 3 Paragraph:

The following diagnoses are covered for CPT codes 76376 and 76377 when performed for 3-D imaging with CPT codes 93312, 93314, C8925, 93315, 93317 or C8926:

Group 3 Codes: (115 Codes)

CODE	DESCRIPTION
I05.0	Rheumatic mitral stenosis
I05.1	Rheumatic mitral insufficiency

CODE	DESCRIPTION
I05.2	Rheumatic mitral stenosis with insufficiency
I05.8	Other rheumatic mitral valve diseases
I05.9	Rheumatic mitral valve disease, unspecified
I08.0	Rheumatic disorders of both mitral and aortic valves
I08.1	Rheumatic disorders of both mitral 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
I23.1	Atrial septal defect as current complication following acute myocardial infarction
I23.2	Ventricular septal defect as current complication following acute myocardial infarction
I23.4	Rupture of chordae tendineae as current complication following acute myocardial infarction
I23.5	Rupture of papillary muscle as current complication following acute myocardial infarction
I33.0	Acute and subacute infective endocarditis
I34.0	Nonrheumatic mitral (valve) insufficiency
I34.1	Nonrheumatic mitral (valve) prolapse
I34.81	Nonrheumatic mitral (valve) annulus calcification
I34.89	Other nonrheumatic mitral valve disorders
I34.9	Nonrheumatic mitral valve disorder, unspecified
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
I39	Endocarditis and heart valve disorders in diseases classified elsewhere
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

CODE	DESCRIPTION
I48.91	Unspecified atrial fibrillation
I48.92	Unspecified atrial flutter
I51.0	Cardiac septal defect, acquired
I51.1	Rupture of chordae tendineae, not elsewhere classified
I51.2	Rupture of papillary muscle, not elsewhere classified
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
Q21.10	Atrial septal defect, unspecified
Q21.11	Secundum atrial septal defect
Q21.12	Patent foramen ovale
Q21.13	Coronary sinus atrial septal defect
Q21.14	Superior sinus venosus atrial septal defect
Q21.15	Inferior sinus venosus atrial septal defect
Q21.16	Sinus venosus atrial septal defect, unspecified
Q21.19	Other specified atrial septal defect
Q21.20	Atrioventricular septal defect, unspecified as to partial or complete
Q21.21	Partial atrioventricular septal defect
Q21.22	Transitional atrioventricular septal defect
Q21.23	Complete atrioventricular septal defect
Q23.2	Congenital mitral stenosis
Q23.3	Congenital mitral insufficiency
Q23.4	Hypoplastic left heart syndrome
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

CODE	DESCRIPTION
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
T82.519A	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
T82.529A	Displacement of unspecified cardiac and vascular devices and implants, initial encounter
T82.529D	Displacement of unspecified cardiac and vascular devices and implants, subsequent encounter
T82.529S	Displacement of unspecified 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
T82.599A	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

CODE	DESCRIPTION
T82.7XXA	Infection and inflammatory reaction due to other cardiac and vascular devices, implants and grafts, initial encounter
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
CODE	DESCRIPTION
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
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,

CODE	DESCRIPTION
	sequela
T82.9XXA	Unspecified complication of cardiac and vascular prosthetic device, implant and 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

ICD-10-CM Codes that DO NOT Support Medical Necessity

N/A

ICD-10-PCS Codes

N/A

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 article does not apply to that Bill Type. Complete absence of all Bill Types indicates that coverage is not influenced by Bill Type and the article should be assumed to apply equally to all claims.

N/A

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 article, 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 article should be assumed to apply equally to all Revenue Codes.

N/A

Other Coding Information

N/A

Revision History Information

REVISION HISTORY DATE	REVISION HISTORY NUMBER	REVISION HISTORY EXPLANATION
10/01/2022	R9	<p>Due to the annual ICD-10 updates for 2023, these coding changes have been made:</p> <p>For group 1, ICD-10 code I34.8 is deleted and replaced by I34.81 and I34.89; ICD-10 code I71.01 is deleted and replaced by I71.010, I71.011, I71.012, and I71.019; ICD-10 code I71.1 is deleted and replaced by I71.10, I71.11, I71.12, and I71.13; ICD-10 code I71.2 is deleted and replaced by I71.20, I71.21, I71.22 and I71.23; ICD-10 code I71.5 is deleted and replaced by I71.50, I71. 51, and I71.52; ICD-10 code I71.6 is deleted and replaced by I71.60, I71.61, and I71.62; ICD-10 code Q21.1 is deleted and replaced by Q21.10, Q21.11, Q21.12, Q21.13, Q21.14, Q21.15, Q21.16 and Q21.19.</p> <p>For groups 2 and 3, ICD-10 code Q21.1 is deleted and replaced by Q21.10, Q21.11, Q21.12, Q21.13, Q21.14, Q21.15, Q21.16 and Q21.19; ICD-10 code Q21.2 is deleted and replaced by Q21.20, Q21.21, Q21.22 and Q21.23.</p> <p>For group 3, ICD-10 code I34.8 is deleted and replaced by I34.81 and I34.89.</p>
01/01/2022	R8	<p>Due to the 2022 annual CPT updates, CPT code 93319 has been added to the list of codes, guidelines, and to groups 1 and 2 ICD-10 covered diagnoses.</p>
10/01/2019	R7	<p>Article revised for annual ICD-10 updates for 2020. ICD-10 codes I48.11, I48.19, I48.20, and I48.21 have replaced deleted codes I48.1 and I48.2 in Groups 1 and 3.</p> <p>The article was converted to the new Billing and Coding Article type.</p> <p>Bill types and Revenue codes have been removed from this article. Guidance on these codes is available in the Bill type and Revenue code sections.</p>
08/01/2019	R6	<p>For the August 1, 2019 revision, ICD-10 code Z98.890 was omitted from Group 1 and ICD-10 code Q87.43 was omitted from Group 2. These have been reinstated.</p>
08/01/2019	R5	<p>The title of the article has been revised to add "Billing and Coding". The article has been revised to add ICD-10-CM coding sections, Documentation Requirements and Utilization Guidelines.</p>
08/01/2018	R4	<p>Statement below revised to add new wording:</p>

REVISION HISTORY DATE	REVISION HISTORY NUMBER	REVISION HISTORY EXPLANATION
		CPT codes 93312-93318 include conscious sedation. Therefore sedation should not be billed separately and if it is, will be bundled into the primary procedure code.
12/01/2017	R3	Article revised to include OPPS codes C8925 and C8926 in the guideline for base codes with which CPT codes 76376 and 76377 (3D echocardiography) can be billed.
01/01/2016	R2	This statement was removed from diagnosis coding guidelines, as it was removed from the Transesophageal Echocardiography LCD (L33579) in February 2015. "The list of ICD-10-CM codes for this secondary diagnosis will be found in the LCD for Transthoracic Echocardiography, L33577, under the list of payable ICD-10-CM codes for CPT codes 93303 and 93304, and the list of payable ICD-10-CM codes for CPT codes 93306, 93307 and 93308." Minor template changes made.
10/01/2015	R1	Place of service guidelines under Part B have been removed from this article.

Associated Documents

Related Local Coverage Documents

LCDs

[L33579 - Transesophageal Echocardiography \(TEE\)](#)

Related National Coverage Documents

N/A

Statutory Requirements URLs

N/A

Rules and Regulations URLs

N/A

CMS Manual Explanations URLs

N/A

Other URLs

N/A

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