

CMS Limitations Guide - Cardiovascular Services

Starting October 1, 2015, CMS will update their existing medical necessity limitations on tests and procedures to correspond to ICD-10 codes. This limitations guide provides you with the latest changes.

This guide is not an all-inclusive list of National Coverage Documents (NCD) and Local Coverage Documents (LCD). You can search by LCD or NCD or keyword and region on the CMS website at: <https://www.cms.gov/medicare-coverage-database/overview-and-quick-search.aspx?clickon=search>.

CMS will deny payment if the correct diagnosis codes are not entered on the order form, and your patient's test or procedure will not be covered. We compiled this information in one location to make it easier for you to find the proper codes for medically necessary diagnoses.

It is the responsibility of the provider to code to the highest level specified in the ICD-10-CM. The correct use of an ICD-10-CM code listed below 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 this determination.

We will continue to update this list as new CMS limitations are announced. You can always find the most current list at: www.munsonhealthcare.org/medicalnecessity.

If you have any questions, please contact Kari Smith, Office Coordinator, at **(231) 935-2296**, or Karen Popa, Director, Patient Access Services, at **(231) 935-7493**.

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(L34625) Myocardial Perfusion Imaging and Cardiac Blood Pool Studies

Cardiolite (78452)

CPT Code	Description
78451	Myocardial perfusion imaging, tomographic (spect) (including attenuation correction, qualitative or quantitative wall motion, ejection fraction by first pass or gated technique, additional quantification, when performed); single study, at rest or stress (exercise or pharmacologic)
78452	Myocardial perfusion imaging, tomographic (spect) (including attenuation correction, qualitative or quantitative wall motion, ejection fraction by first pass or gated technique, additional quantification, when performed); multiple studies, at rest and/or stress (exercise or pharmacologic) and/or redistribution and/or rest reinjection (Cardiolite)
78453	Myocardial perfusion imaging, planar (including qualitative or quantitative wall motion, ejection fraction by first pass or gated technique, additional quantification, when performed); single study, at rest or stress (exercise or pharmacologic)
78454	Myocardial perfusion imaging, planar (including qualitative or quantitative wall motion, ejection fraction by first pass or gated technique, additional quantification, when performed); multiple studies, at rest and/or stress (exercise or pharmacologic) and/or redistribution and/or rest reinjection
78466	Myocardial imaging, infarct avid, planar; qualitative or quantitative
78468	Myocardial imaging, infarct avid, planar; with ejection fraction by first pass technique
78469	Myocardial imaging, infarct avid, planar; tomographic spect with or without quantification
78472	Cardiac blood pool imaging, gated equilibrium; planar, single study at rest or stress (exercise and/or pharmacologic), wall motion study plus ejection fraction, with or without additional quantitative processing
78473	Cardiac blood pool imaging, gated equilibrium; multiple studies, wall motion study plus ejection fraction, at rest and stress (exercise and/or pharmacologic), with or without additional quantification
78481	Cardiac blood pool imaging (planar), first pass technique; single study, at rest or with stress (exercise and/or pharmacologic), wall motion study plus ejection fraction, with or without quantification
78483	Cardiac blood pool imaging (planar), first pass technique; multiple studies, at rest and with stress (exercise and/or pharmacologic), wall motion study plus ejection fraction, with or without quantification
78494	Cardiac blood pool imaging, gated equilibrium, spect, at rest, wall motion study plus ejection fraction, with or without quantitative processing
78496	Cardiac blood pool imaging, gated equilibrium, single study, at rest, with right ventricular ejection fraction by first pass technique (list separately in addition to code for primary procedure)
A9500	Technetium tc-99m sestamibi, diagnostic, per study dose
A9502	Technetium tc-99m tetrofosmin, diagnostic, per study dose
A9505	Thallium tl-201 thallos chloride, diagnostic, per millicurie
A9512	Technetium tc-99m pertechnetate, diagnostic, per millicurie
A9539	Technetium tc-99m pentetate, diagnostic, per study dose, up to 25 millicuries
A9560	Technetium tc-99m labeled red blood cells, diagnostic, per study dose, up to 30 millicuries
C9898	Radiolabeled product provided during a hospital inpatient stay

ICD-10 Codes That Support Medical Necessity and Covered by Medicare Program:

Group 1 Paragraph: Note: Diagnosis codes do not apply to A9512 - A9560, C9898.

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Group 1 Codes:

Code	Description
A18.84	Tuberculosis of heart
E08.00 - E08.9	Diabetes mellitus due to underlying condition with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC) - Diabetes mellitus due to underlying condition without complications
E09.00 - E09.9	Drug or chemical induced diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC) - Drug or chemical induced diabetes mellitus without complications
E10.10 - E10.9	Type 1 diabetes mellitus with ketoacidosis without coma - Type 1 diabetes mellitus without complications
E11.00 - E11.9	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC) - Type 2 diabetes mellitus without complications
E13.00 - E13.9	Other specified diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC) - Other specified diabetes mellitus without complications
I05.0	Rheumatic mitral stenosis
I05.1	Rheumatic mitral insufficiency
I05.2	Rheumatic mitral stenosis with insufficiency
I05.8	Other rheumatic mitral valve diseases
I06.0	Rheumatic aortic stenosis
I06.1	Rheumatic aortic insufficiency
I06.2	Rheumatic aortic stenosis with insufficiency
I08.0	Rheumatic disorders of both mitral and aortic valves
I08.8	Other rheumatic multiple valve diseases
I20.0	Unstable angina
I20.1	Angina pectoris with documented spasm
I20.8	Other forms of angina pectoris
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
I21.21	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
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

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I22.8	Subsequent ST elevation (STEMI) myocardial infarction of other sites
I24.0	Acute coronary thrombosis not resulting in myocardial infarction
I24.1	Dressler's syndrome
I24.8	Other forms of acute ischemic heart disease
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
I25.2	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
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
I25.710	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
I25.720	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
I25.730	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
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 angina pectoris
I25.760	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unstable angina

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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
I25.790	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
I25.810	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
I25.82	Chronic total occlusion of coronary artery
I25.83	Coronary atherosclerosis due to lipid rich plaque
I25.84	Coronary atherosclerosis due to calcified coronary lesion
I25.89	Other forms of chronic ischemic heart disease
I27.81	Cor pulmonale (chronic)
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
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
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
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
I42.0	Dilated cardiomyopathy
I42.1	Obstructive hypertrophic cardiomyopathy
I42.2	Other hypertrophic cardiomyopathy
I42.3	Endomyocardial (eosinophilic) disease

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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
I43	Cardiomyopathy in diseases classified elsewhere
I44.0	Atrioventricular block, first degree
I44.1	Atrioventricular block, second degree
I44.39	Other atrioventricular block
I44.4	Left anterior fascicular block
I44.5	Left posterior fascicular block
I44.69	Other fascicular block
I45.0	Right fascicular block
I45.19	Other right bundle-branch block
I45.2	Bifascicular block
I45.3	Trifascicular block
I45.4	Nonspecific intraventricular block
I45.5	Other specified heart block
I45.6	Pre-excitation syndrome
I45.81	Long QT syndrome
I45.89	Other specified conduction disorders
I46.2	Cardiac arrest due to underlying cardiac condition
I46.8	Cardiac arrest due to other underlying condition
I46.9	Cardiac arrest, cause unspecified
I47.0	Re-entry ventricular arrhythmia
I47.1	Supraventricular tachycardia
I47.2	Ventricular tachycardia
I48.0	Paroxysmal atrial fibrillation
I48.1	Persistent atrial fibrillation
I48.2	Chronic atrial fibrillation
I48.3	Typical atrial flutter
I48.4	Atypical atrial flutter
I48.91	Unspecified atrial fibrillation
I48.92	Unspecified atrial flutter

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I49.01	Ventricular fibrillation
I49.02	Ventricular flutter
I49.1	Atrial premature depolarization
I49.2	Junctional premature depolarization
I49.3	Ventricular premature depolarization
I49.40	Unspecified premature depolarization
I49.49	Other premature depolarization
I49.5	Sick sinus syndrome
I49.8	Other specified cardiac arrhythmias
I50.1	Left ventricular failure
I50.20	Unspecified systolic (congestive) heart failure
I50.21	Acute systolic (congestive) heart failure
I50.22	Chronic systolic (congestive) heart failure
I50.23	Acute on chronic systolic (congestive) heart failure
I50.31	Acute diastolic (congestive) heart failure
I50.32	Chronic diastolic (congestive) heart failure
I50.33	Acute on chronic 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
I51.4	Myocarditis, unspecified
I51.5	Myocardial degeneration
I51.7	Cardiomegaly
I51.81	Takotsubo syndrome
I51.89	Other ill-defined heart diseases
I63.031	Cerebral infarction due to thrombosis of right carotid artery
I63.032	Cerebral infarction due to thrombosis of left carotid artery
I63.131	Cerebral infarction due to embolism of right carotid artery
I63.132	Cerebral infarction due to embolism of left carotid artery
I63.231	Cerebral infarction due to unspecified occlusion or stenosis of right carotid arteries
I63.232	Cerebral infarction due to unspecified occlusion or stenosis of left carotid arteries
I65.21	Occlusion and stenosis of right carotid artery
I65.22	Occlusion and stenosis of left carotid artery
I65.23	Occlusion and stenosis of bilateral carotid arteries

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170.211	Atherosclerosis of native arteries of extremities with intermittent claudication, right leg
170.212	Atherosclerosis of native arteries of extremities with intermittent claudication, left leg
170.213	Atherosclerosis of native arteries of extremities with intermittent claudication, bilateral legs
170.218	Atherosclerosis of native arteries of extremities with intermittent claudication, other extremity
170.221	Atherosclerosis of native arteries of extremities with rest pain, right leg
170.222	Atherosclerosis of native arteries of extremities with rest pain, left leg
170.223	Atherosclerosis of native arteries of extremities with rest pain, bilateral legs
170.228	Atherosclerosis of native arteries of extremities with rest pain, other extremity
170.291	Other atherosclerosis of native arteries of extremities, right leg
170.292	Other atherosclerosis of native arteries of extremities, left leg
170.293	Other atherosclerosis of native arteries of extremities, bilateral legs
170.298	Other atherosclerosis of native arteries of extremities, other extremity
170.311	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, right leg
170.312	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, left leg
170.313	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, bilateral legs
170.318	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, other extremity
170.321	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, right leg
170.322	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, left leg
170.323	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, bilateral legs
170.328	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, other extremity
170.391	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, right leg
170.392	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, left leg
170.393	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, bilateral legs
170.398	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, other extremity
170.401	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, right leg
170.402	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, left leg
170.403	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, bilateral legs
170.408	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, other extremity
170.411	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, right leg
170.412	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, left leg
170.413	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, bilateral legs

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170.418	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, other extremity
170.421	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, right leg
170.422	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, left leg
170.423	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, bilateral legs
170.428	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, other extremity
170.491	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, right leg
170.492	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, left leg
170.493	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, bilateral legs
170.498	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, other extremity
170.501	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, right leg
170.502	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, left leg
170.503	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, bilateral legs
170.508	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, other extremity
170.511	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, right leg
170.512	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, left leg
170.513	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, bilateral legs
170.518	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, other extremity
170.521	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, right leg
170.522	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, left leg
170.523	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, bilateral legs
170.528	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, other extremity
170.591	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, right leg
170.592	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, left leg
170.593	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, bilateral legs
170.598	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, other extremity
170.611	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, right leg
170.612	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, left leg
170.613	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, bilateral legs

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170.618	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, other extremity
170.621	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, right leg
170.622	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, left leg
170.623	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, bilateral legs
170.628	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, other extremity
170.691	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, right leg
170.692	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, left leg
170.693	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, bilateral legs
170.698	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, other extremity
170.711	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, right leg
170.712	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, left leg
170.713	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, bilateral legs
170.718	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, other extremity
170.721	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, right leg
170.722	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, left leg
170.723	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, bilateral legs
170.728	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, other extremity
170.791	Other atherosclerosis of other type of bypass graft(s) of the extremities, right leg
170.792	Other atherosclerosis of other type of bypass graft(s) of the extremities, left leg
170.793	Other atherosclerosis of other type of bypass graft(s) of the extremities, bilateral legs
170.798	Other atherosclerosis of other type of bypass graft(s) of the extremities, other extremity
170.8	Atherosclerosis of other arteries
170.91	Generalized atherosclerosis
170.92	Chronic total occlusion of artery of the extremities
171.00	Dissection of unspecified site of aorta
171.01	Dissection of thoracic aorta
171.02	Dissection of abdominal aorta
171.03	Dissection of thoracoabdominal aorta
171.1	Thoracic aortic aneurysm, ruptured
171.2	Thoracic aortic aneurysm, without rupture
171.3	Abdominal aortic aneurysm, ruptured
171.4	Abdominal aortic aneurysm, without rupture

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I71.5	Thoracoabdominal aortic aneurysm, ruptured
I71.6	Thoracoabdominal aortic aneurysm, without rupture
I71.8	Aortic aneurysm of unspecified site, ruptured
I79.0	Aneurysm of aorta in diseases classified elsewhere
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
Q20.4	Double inlet ventricle
Q21.0	Ventricular septal defect
Q21.1	Atrial 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
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
Q24.4	Congenital subaortic stenosis
Q24.5	Malformation of coronary vessels
R00.1	Bradycardia, unspecified
R00.2	Palpitations

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R06.00	Dyspnea, unspecified
R06.01	Orthopnea
R06.02	Shortness of breath
R06.09	Other forms of dyspnea
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
R55	Syncope and collapse
R94.30	Abnormal result of cardiovascular function study, unspecified
R94.31	Abnormal electrocardiogram [ECG] [EKG]
T50.905A	Adverse effect of unspecified drugs, medicaments and biological substances, initial encounter
T82.211A	Breakdown (mechanical) of coronary artery bypass graft, initial encounter
T82.212A	Displacement of coronary artery bypass graft, initial encounter
T82.213A	Leakage of coronary artery bypass graft, initial encounter
T82.218A	Other mechanical complication of coronary artery bypass graft, initial encounter
T82.310A	Breakdown (mechanical) of aortic (bifurcation) graft (replacement), initial encounter
T82.311A	Breakdown (mechanical) of carotid arterial graft (bypass), initial encounter
T82.312A	Breakdown (mechanical) of femoral arterial graft (bypass), initial encounter
T82.318A	Breakdown (mechanical) of other vascular grafts, initial encounter
T82.319A	Breakdown (mechanical) of unspecified vascular grafts, initial encounter
T82.320A	Displacement of aortic (bifurcation) graft (replacement), initial encounter
T82.321A	Displacement of carotid arterial graft (bypass), initial encounter
T82.322A	Displacement of femoral arterial graft (bypass), initial encounter
T82.328A	Displacement of other vascular grafts, initial encounter
T82.329A	Displacement of unspecified vascular grafts, initial encounter
T82.330A	Leakage of aortic (bifurcation) graft (replacement), initial encounter
T82.331A	Leakage of carotid arterial graft (bypass), initial encounter
T82.332A	Leakage of femoral arterial graft (bypass), initial encounter
T82.338A	Leakage of other vascular grafts, initial encounter
T82.339A	Leakage of unspecified vascular graft, initial encounter
T82.390A	Other mechanical complication of aortic (bifurcation) graft (replacement), initial encounter

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T82.391A	Other mechanical complication of carotid arterial graft (bypass), initial encounter
T82.392A	Other mechanical complication of femoral arterial graft (bypass), initial encounter
T82.398A	Other mechanical complication of other vascular grafts, initial encounter
T82.399A	Other mechanical complication of unspecified vascular grafts, initial encounter
T82.41XA	Breakdown (mechanical) of vascular dialysis catheter, initial encounter
T82.42XA	Displacement of vascular dialysis catheter, initial encounter
T82.43XA	Leakage of vascular dialysis catheter, initial encounter
T82.49XA	Other complication of vascular dialysis catheter, initial encounter
T82.510A	Breakdown (mechanical) of surgically created arteriovenous fistula, initial encounter
T82.511A	Breakdown (mechanical) of surgically created arteriovenous shunt, initial encounter
T82.513A	Breakdown (mechanical) of balloon (counterpulsation) device, initial encounter
T82.514A	Breakdown (mechanical) of infusion catheter, initial encounter
T82.515A	Breakdown (mechanical) of umbrella device, initial encounter
T82.518A	Breakdown (mechanical) of other cardiac and vascular devices and implants, initial encounter
T82.520A	Displacement of surgically created arteriovenous fistula, initial encounter
T82.521A	Displacement of surgically created arteriovenous shunt, initial encounter
T82.523A	Displacement of balloon (counterpulsation) device, initial encounter
T82.524A	Displacement of infusion catheter, initial encounter
T82.525A	Displacement of umbrella device, initial encounter
T82.528A	Displacement of other cardiac and vascular devices and implants, initial encounter
T82.529A	Displacement of unspecified cardiac and vascular devices and implants, initial encounter
T82.530A	Leakage of surgically created arteriovenous fistula, initial encounter
T82.531A	Leakage of surgically created arteriovenous shunt, initial encounter
T82.533A	Leakage of balloon (counterpulsation) device, initial encounter
T82.534A	Leakage of infusion catheter, initial encounter
T82.535A	Leakage of umbrella device, initial encounter
T82.538A	Leakage of other cardiac and vascular devices and implants, initial encounter
T82.590A	Other mechanical complication of surgically created arteriovenous fistula, initial encounter
T82.591A	Other mechanical complication of surgically created arteriovenous shunt, initial encounter
T82.593A	Other mechanical complication of balloon (counterpulsation) device, initial encounter
T82.594A	Other mechanical complication of infusion catheter, initial encounter
T82.595A	Other mechanical complication of umbrella device, initial encounter
T82.598A	Other mechanical complication of other cardiac and vascular devices and implants, initial encounter
T82.817A	Embolism of cardiac prosthetic devices, implants and grafts, initial encounter

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T82.827A	Fibrosis of cardiac prosthetic devices, implants and grafts, initial encounter
T82.837A	Hemorrhage of cardiac prosthetic devices, implants and grafts, initial encounter
T82.847A	Pain from cardiac prosthetic devices, implants and grafts, initial encounter
T82.857A	Stenosis of cardiac prosthetic devices, implants and grafts, initial encounter
T82.867A	Thrombosis of cardiac prosthetic devices, implants and grafts, initial encounter
T82.897A	Other specified complication of cardiac prosthetic devices, implants and grafts, initial encounter
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
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
Z48.21	Encounter for aftercare following heart transplant
Z48.280	Encounter for aftercare following heart-lung transplant
Z51.11	Encounter for antineoplastic chemotherapy
Z79.3	Long term (current) use of hormonal contraceptives
Z79.891	Long term (current) use of opiate analgesic
Z79.899	Other long term (current) drug therapy
Z94.1	Heart transplant status
Z94.3	Heart and lungs transplant status
Z95.1	Presence of aortocoronary bypass graft
Z95.2	Presence of prosthetic heart valve
Z95.3	Presence of xenogenic heart valve
Z95.4	Presence of other heart-valve replacement
Z95.5	Presence of coronary angioplasty implant and graft
Z98.61	Coronary angioplasty status