

Coronary Fractional Flow Reserve Using Computed Tomography (FFR-ct)

Guideline Number: MPG372.05
Approval Date: January 13, 2021

[↪ Terms and Conditions](#)

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<p>Related Medicare Advantage Policy Guideline</p> <ul style="list-style-type: none"> Category III CPT Codes

Policy Summary

[↪ See Purpose](#)

Overview

Fractional Flow Reserve (FFR) can be modeled noninvasively using images obtained during Coronary Computed Tomography Angiography (CCTA). The process involves constructing a digital model of coronary anatomy and calculating FFR across the entire vascular tree using computational fluid dynamics. The results of FFR-ct are intended to be used by qualified clinicians in conjunction with the patient’s clinical history, symptoms, and other diagnostic tests, as well as the clinician’s professional judgment.

Guidelines

This test may be considered medically necessary when CCTA shows coronary artery disease (CAD) of uncertain functional significance, or is non-diagnostic and where the addition of functional information provided by FFR-ct can help the physician determine which patient may require invasive evaluation and/or treatment.

Applicable Codes

The following list(s) of codes is provided for reference purposes only and may not be all inclusive. Listing of a code in this guideline does not imply that the service described by the code is a covered or non-covered health service. Benefit coverage for health services is determined by the member specific benefit plan document and applicable laws that may require coverage for a specific service. The inclusion of a code does not imply any right to reimbursement or guarantee claim payment. Other Policies and Guidelines may apply.

CPT Code	Description
0501T	Noninvasive estimated coronary fractional flow reserve (FFR) derived from coronary computed tomography angiography data using computation fluid dynamics physiologic simulation software analysis of functional data to assess the severity of coronary artery disease; data preparation and transmission, analysis of fluid dynamics and simulated maximal coronary hyperemia, generation of estimated FFR model, with anatomical data review in comparison with estimated FFR model to reconcile discordant data, interpretation and report

CPT Code	Description
0502T	Noninvasive estimated coronary fractional flow reserve (FFR) derived from coronary computed tomography angiography data using computation fluid dynamics physiologic simulation software analysis of functional data to assess the severity of coronary artery disease; data preparation and transmission
0503T	Noninvasive estimated coronary fractional flow reserve (FFR) derived from coronary computed tomography angiography data using computation fluid dynamics physiologic simulation software analysis of functional data to assess the severity of coronary artery disease; analysis of fluid dynamics and simulated maximal coronary hyperemia, and generation of estimated FFR model
0504T	Noninvasive estimated coronary fractional flow reserve (FFR) derived from coronary computed tomography angiography data using computation fluid dynamics physiologic simulation software analysis of functional data to assess the severity of coronary artery disease; anatomical data review in comparison with estimated FFR model to reconcile discordant data, interpretation and report

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Diagnosis Code	Description
A18.84	Tuberculosis of heart (Deleted 11/21/2020)
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
I11.0	Hypertensive heart disease with heart failure (Deleted 11/21/2020)
I11.9	Hypertensive heart disease without heart failure (Deleted 11/21/2020)
I20.0	Unstable angina
I20.1	Angina pectoris with documented spasm
I20.8	Other forms of angina pectoris
I20.9	Angina pectoris, unspecified
I24.0	Acute coronary thrombosis not resulting in myocardial infarction
I25.10	Atherosclerotic heart disease of native coronary artery without angina pectoris
I25.110	Atherosclerotic heart disease of native coronary artery with unstable angina pectoris
I25.111	Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm
I25.118	Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris
I25.119	Atherosclerotic heart disease of native coronary artery with unspecified angina pectoris
I25.2	Old myocardial infarction
I25.3	Aneurysm of heart
I25.41	Coronary artery aneurysm
I25.42	Coronary artery dissection
I25.5	Ischemic cardiomyopathy
I25.6	Silent myocardial ischemia
I25.700	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unstable angina pectoris
I25.701	Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris with documented spasm
I25.708	Atherosclerosis of coronary artery bypass graft(s), unspecified, with other forms of angina pectoris
I25.709	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unspecified angina pectoris
I25.710	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina pectoris

Diagnosis Code	Description
I25.711	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris with documented spasm
I25.718	Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris
I25.719	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unspecified angina pectoris
I25.720	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unstable angina pectoris
I25.721	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris with documented spasm
I25.728	Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of angina pectoris
I25.729	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unspecified angina pectoris
I25.730	Atherosclerosis of non-autologous biological coronary artery bypass graft(s) with unstable angina pectoris
I25.731	Atherosclerosis of non-autologous biological coronary artery bypass graft(s) with angina pectoris with documented spasm
I25.738	Atherosclerosis of non-autologous biological coronary artery bypass graft(s) with other forms of angina pectoris
I25.739	Atherosclerosis of non-autologous biological coronary artery bypass graft(s) with unspecified angina pectoris
I25.750	Atherosclerosis of native coronary artery of transplanted heart with unstable angina
I25.751	Atherosclerosis of native coronary artery of transplanted heart with angina pectoris with documented spasm
I25.758	Atherosclerosis of native coronary artery of transplanted heart with other forms of angina pectoris
I25.759	Atherosclerosis of native coronary artery of transplanted heart with unspecified angina pectoris
I25.760	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unstable angina
I25.761	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented spasm
I25.768	Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris
I25.769	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unspecified angina pectoris
I25.790	Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris
I25.791	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm
I25.798	Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris
I25.799	Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris
I25.810	Atherosclerosis of coronary artery bypass graft(s) without angina pectoris
I25.811	Atherosclerosis of native coronary artery of transplanted heart without angina pectoris
I25.812	Atherosclerosis of bypass graft of coronary artery of transplanted heart without angina pectoris
I25.82	Chronic total occlusion of coronary artery (Deleted 11/21/2020)
I25.84	Coronary atherosclerosis due to calcified coronary lesion (Deleted 11/21/2020)
I25.89	Other forms of chronic ischemic heart disease
I25.9	Chronic ischemic heart disease, unspecified
I26.01	Septic pulmonary embolism with acute cor pulmonale (Deleted 11/21/2020)
I26.02	Saddle embolus of pulmonary artery with acute cor pulmonale (Deleted 11/21/2020)
I26.09	Other pulmonary embolism with acute cor pulmonale (Deleted 11/21/2020)
I26.92	Saddle embolus of pulmonary artery without acute cor pulmonale (Deleted 11/21/2020)
I26.93	Single subsegmental pulmonary embolism without acute cor pulmonale (Deleted 11/21/2020)

Diagnosis Code	Description
I26.94	Multiple subsegmental pulmonary emboli without acute cor pulmonale (Deleted 11/21/2020)
I26.99	Other pulmonary embolism without acute cor pulmonale (Deleted 11/21/2020)
I27.0	Primary pulmonary hypertension
I27.1	Kyphoscoliotic heart disease (Deleted 11/21/2020)
I27.20	Pulmonary hypertension, unspecified (Deleted 11/21/2020)
I27.21	Secondary pulmonary arterial hypertension (Deleted 11/21/2020)
I27.22	Pulmonary hypertension due to left heart disease (Deleted 11/21/2020)
I27.23	Pulmonary hypertension due to lung diseases and hypoxia (Deleted 11/21/2020)
I27.24	Chronic thromboembolic pulmonary hypertension (Deleted 11/21/2020)
I27.29	Other secondary pulmonary hypertension (Deleted 11/21/2020)
I27.81	Cor pulmonale (chronic) (Deleted 11/21/2020)
I27.82	Chronic pulmonary embolism (Deleted 11/21/2020)
I27.83	Eisenmenger's syndrome (Deleted 11/21/2020)
I27.89	Other specified pulmonary heart diseases (Deleted 11/21/2020)
I27.9	Pulmonary heart disease, unspecified (Deleted 11/21/2020)
I28.0	Arteriovenous fistula of pulmonary vessels (Deleted 11/21/2020)
I28.1	Aneurysm of pulmonary artery (Deleted 11/21/2020)
I28.8	Other diseases of pulmonary vessels (Deleted 11/21/2020)
I28.9	Disease of pulmonary vessels, unspecified (Deleted 11/21/2020)
I30.0	Acute nonspecific idiopathic pericarditis (Deleted 11/21/2020)
I30.1	Infective pericarditis (Deleted 11/21/2020)
I30.8	Other forms of acute pericarditis (Deleted 11/21/2020)
I30.9	Acute pericarditis, unspecified (Deleted 11/21/2020)
I31.0	Chronic adhesive pericarditis
I31.1	Chronic constrictive pericarditis
I31.2	Hemopericardium, not elsewhere classified
I31.3	Pericardial effusion (non-inflammatory)
I31.4	Cardiac tamponade
I31.8	Other specified diseases of pericardium
I31.9	Disease of pericardium, unspecified
I32	Pericarditis in diseases classified elsewhere (Deleted 11/21/2020)
I34.0	Non-rheumatic mitral (valve) insufficiency
I34.1	Non-rheumatic mitral (valve) prolapse
I34.2	Non-rheumatic mitral (valve) stenosis
I34.8	Other non-rheumatic mitral valve disorders
I34.9	Non-rheumatic mitral valve disorder, unspecified
I35.0	Non-rheumatic aortic (valve) stenosis
I35.1	Non-rheumatic aortic (valve) insufficiency
I35.2	Non-rheumatic aortic (valve) stenosis with insufficiency
I35.8	Other non-rheumatic aortic valve disorders
I35.9	Non-rheumatic aortic valve disorder, unspecified
I42.0	Dilated cardiomyopathy

Diagnosis Code	Description
I42.1	Obstructive hypertrophic cardiomyopathy (Deleted 11/21/2020)
I42.2	Other hypertrophic cardiomyopathy (Deleted 11/21/2020)
I42.3	Endomyocardial (eosinophilic) disease (Deleted 11/21/2020)
I42.4	Endocardial fibroelastosis (Deleted 11/21/2020)
I42.5	Other restrictive cardiomyopathy
I42.6	Alcoholic cardiomyopathy (Deleted 11/21/2020)
I42.7	Cardiomyopathy due to drug and external agent (Deleted 11/21/2020)
I42.8	Other cardiomyopathies
I42.9	Cardiomyopathy, unspecified
I43	Cardiomyopathy in diseases classified elsewhere (Deleted 11/21/2020)
I44.4	Left anterior fascicular block (Deleted 11/21/2020)
I44.5	Left posterior fascicular block (Deleted 11/21/2020)
I44.7	Left bundle-branch block, unspecified(Deleted 11/21/2020)
I45.2	Bi-fascicular block (Deleted 11/21/2020)
I45.3	Tri-fascicular block (Deleted 11/21/2020)
I45.6	Pre-excitation syndrome (Deleted 11/21/2020)
I45.89	Other specified conduction disorders (Deleted 11/21/2020)
I46.2	Cardiac arrest due to underlying cardiac condition (Deleted 11/21/2020)
I46.8	Cardiac arrest due to other underlying condition (Deleted 11/21/2020)
I46.9	Cardiac arrest, cause unspecified (Deleted 11/21/2020)
I48.0	Paroxysmal atrial fibrillation
I48.11	Longstanding persistent atrial fibrillation
I48.19	Other persistent atrial fibrillation
I48.20	Chronic atrial fibrillation, unspecified
I48.21	Permanent atrial fibrillation
I48.3	Typical atrial flutter
I48.4	Atypical atrial flutter
I48.91	Unspecified atrial fibrillation
I48.92	Unspecified atrial flutter
I49.01	Ventricular fibrillation
I49.02	Ventricular flutter
I49.8	Other specified cardiac arrhythmias (Deleted 11/21/2020)
I50.1	Left ventricular failure, unspecified (Deleted 11/21/2020)
I50.20	Unspecified systolic (congestive) heart failure
I50.21	Acute systolic (congestive) heart failure
I50.22	Chronic systolic (congestive) heart failure
I50.23	Acute on chronic systolic (congestive) heart failure
I50.30	Unspecified diastolic (congestive) heart failure
I50.31	Acute diastolic (congestive) heart failure
I50.32	Chronic diastolic (congestive) heart failure
I50.33	Acute on chronic diastolic (congestive) heart failure
I50.40	Unspecified combined systolic (congestive) and diastolic (congestive) heart failure

Diagnosis Code	Description
I50.41	Acute combined systolic (congestive) and diastolic (congestive) heart failure
I50.42	Chronic combined systolic (congestive) and diastolic (congestive) heart failure
I50.43	Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure
I50.810	Right heart failure, unspecified
I50.811	Acute right heart failure
I50.812	Chronic right heart failure
I50.813	Acute on chronic right heart failure
I50.814	Right heart failure due to left heart failure
I50.82	Biventricular heart failure
I50.83	High output heart failure
I50.84	End stage heart failure
I50.89	Other heart failure
I50.9	Heart failure, unspecified
I51.7	Cardiomegaly (Deleted 11/21/2020)
I70.0	Atherosclerosis of aorta (Deleted 11/21/2020)
I71.01	Dissection of thoracic aorta
I71.1	Thoracic aortic aneurysm, ruptured
I71.2	Thoracic aortic aneurysm, without rupture
I74.11	Embolism and thrombosis of thoracic aorta (Deleted 11/21/2020)
M32.12	Pericarditis in systemic lupus erythematosus (Deleted 11/21/2020)
Q20.1	Double outlet right ventricle
Q20.2	Double outlet left ventricle
Q20.3	Discordant ventriculoarterial connection
Q20.4	Double inlet ventricle
Q20.5	Discordant atrioventricular connection
Q20.6	Isomerism of atrial appendages
Q20.8	Other congenital malformations of cardiac chambers and connections
Q20.9	Congenital malformation of cardiac chambers and connections, unspecified
Q21.0	Ventricular septal defect
Q21.1	Atrial septal defect
Q21.2	Atrioventricular septal defect
Q21.3	Tetralogy of Fallot
Q21.4	Aortopulmonary septal defect
Q21.8	Other congenital malformations of cardiac septa
Q21.9	Congenital malformation of cardiac septum, unspecified
Q22.0	Pulmonary valve atresia
Q22.1	Congenital pulmonary valve stenosis
Q22.2	Congenital pulmonary valve insufficiency
Q22.3	Other congenital malformations of pulmonary valve
Q22.4	Congenital tricuspid stenosis
Q22.5	Ebstein's anomaly
Q22.6	Hypoplastic right heart syndrome

Diagnosis Code	Description
Q22.8	Other congenital malformations of tricuspid valve
Q22.9	Congenital malformation of tricuspid valve, unspecified
Q23.0	Congenital stenosis of aortic valve
Q23.1	Congenital insufficiency of aortic valve
Q23.2	Congenital mitral stenosis
Q23.3	Congenital mitral insufficiency
Q23.4	Hypoplastic left heart syndrome
Q23.8	Other congenital malformations of aortic and mitral valves
Q23.9	Congenital malformation of aortic and mitral valves, unspecified
Q24.0	Dextrocardia
Q24.1	Levocardia
Q24.2	Cor triatriatum
Q24.3	Pulmonary infundibular stenosis
Q24.4	Congenital sub-aortic stenosis
Q24.5	Malformation of coronary vessels
Q24.8	Other specified congenital malformations of heart
Q24.9	Congenital malformation of heart, unspecified
Q25.0	Patent ductus arteriosus
Q25.1	Coarctation of aorta
Q25.21	Interruption of aortic arch
Q25.29	Other atresia of aorta
Q25.3	Supravalvular aortic stenosis
Q25.40	Congenital malformation of aorta unspecified
Q25.41	Absence and aplasia of aorta
Q25.42	Hypoplasia of aorta
Q25.43	Congenital aneurysm of aorta
Q25.44	Congenital dilation of aorta
Q25.45	Double aortic arch
Q25.46	Tortuous aortic arch
Q25.47	Right aortic arch
Q25.48	Anomalous origin of subclavian artery
Q25.49	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

Diagnosis Code	Description
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
R06.02	Shortness of breath
R06.03	Acute respiratory distress
R07.2	Precordial pain
R07.82	Intercostal pain
R07.89	Other chest pain
R07.9	Chest pain, unspecified
R93.1	Abnormal findings on diagnostic imaging of heart and coronary circulation (Effective 11/22/2020)
R94.30	Abnormal result of cardiovascular function study, unspecified
R94.31	Abnormal electrocardiogram [ECG] [EKG] (Deleted 11/21/2020)
R94.39	Abnormal result of other cardiovascular function study
T82.01XA	Breakdown (mechanical) of heart valve prosthesis, initial encounter(Deleted 11/21/2020)
T82.01XD	Breakdown (mechanical) of heart valve prosthesis, subsequent encounter(Deleted 11/21/2020)
T82.01XS	Breakdown (mechanical) of heart valve prosthesis, sequela (Deleted 11/21/2020)
T82.02XA	Displacement of heart valve prosthesis, initial encounter (Deleted 11/21/2020)
T82.02XD	Displacement of heart valve prosthesis, subsequent encounter (Deleted 11/21/2020)
T82.02XS	Displacement of heart valve prosthesis, sequela (Deleted 11/21/2020)
T82.03XA	Leakage of heart valve prosthesis, initial encounter (Deleted 11/21/2020)
T82.03XD	Leakage of heart valve prosthesis, subsequent encounter (Deleted 11/21/2020)
T82.03XS	Leakage of heart valve prosthesis, sequela (Deleted 11/21/2020)
T82.09XA	Other mechanical complication of heart valve prosthesis, initial encounter (Deleted 11/21/2020)
T82.09XD	Other mechanical complication of heart valve prosthesis, subsequent encounter (Deleted 11/21/2020)
T82.09XS	Other mechanical complication of heart valve prosthesis, sequela (Deleted 11/21/2020)
T82.190A	Other mechanical complication of cardiac electrode, initial encounter (Deleted 11/21/2020)
T82.190D	Other mechanical complication of cardiac electrode, subsequent encounter (Deleted 11/21/2020)
T82.190S	Other mechanical complication of cardiac electrode, sequela (Deleted 11/21/2020)
T82.211A	Breakdown (mechanical) of coronary artery bypass graft, initial encounter (Deleted 11/21/2020)
T82.211D	Breakdown (mechanical) of coronary artery bypass graft, subsequent encounter (Deleted 11/21/2020)
T82.211S	Breakdown (mechanical) of coronary artery bypass graft, sequela (Deleted 11/21/2020)
T82.212A	Displacement of coronary artery bypass graft, initial encounter (Deleted 11/21/2020)
T82.212D	Displacement of coronary artery bypass graft, subsequent encounter (Deleted 11/21/2020)
T82.212S	Displacement of coronary artery bypass graft, sequela (Deleted 11/21/2020)
T82.213A	Leakage of coronary artery bypass graft, initial encounter (Deleted 11/21/2020)
T82.213D	Leakage of coronary artery bypass graft, subsequent encounter (Deleted 11/21/2020)
T82.213S	Leakage of coronary artery bypass graft, sequela (Deleted 11/21/2020)
T82.218A	Other mechanical complication of coronary artery bypass graft, initial encounter (Deleted 11/21/2020)
T82.218D	Other mechanical complication of coronary artery bypass graft, subsequent encounter (Deleted 11/21/2020)
T82.218S	Other mechanical complication of coronary artery bypass graft, sequela (Deleted 11/21/2020)

Diagnosis Code	Description
T82.221A	Breakdown (mechanical) of biological heart valve graft, initial encounter (Deleted 11/21/2020)
T82.221D	Breakdown (mechanical) of biological heart valve graft, subsequent encounter (Deleted 11/21/2020)
T82.221S	Breakdown (mechanical) of biological heart valve graft, sequela (Deleted 11/21/2020)
T82.222A	Displacement of biological heart valve graft, initial encounter (Deleted 11/21/2020)
T82.222D	Displacement of biological heart valve graft, subsequent encounter (Deleted 11/21/2020)
T82.222S	Displacement of biological heart valve graft, sequela (Deleted 11/21/2020)
T82.223A	Leakage of biological heart valve graft, initial encounter (Deleted 11/21/2020)
T82.223D	Leakage of biological heart valve graft, subsequent encounter (Deleted 11/21/2020)
T82.223S	Leakage of biological heart valve graft, sequela (Deleted 11/21/2020)
T82.228A	Other mechanical complication of biological heart valve graft, initial encounter (Deleted 11/21/2020)
T82.228D	Other mechanical complication of biological heart valve graft, subsequent encounter (Deleted 11/21/2020)
T82.228S	Other mechanical complication of biological heart valve graft, sequela (Deleted 11/21/2020)
T82.518A	Breakdown (mechanical) of other cardiac and vascular devices and implants, initial encounter (Deleted 11/21/2020)
T82.518D	Breakdown (mechanical) of other cardiac and vascular devices and implants, subsequent encounter (Deleted 11/21/2020)
T82.518S	Breakdown (mechanical) of other cardiac and vascular devices and implants, sequela (Deleted 11/21/2020)
T82.522A	Displacement of artificial heart, initial encounter (Deleted 11/21/2020)
T82.522D	Displacement of artificial heart, subsequent encounter (Deleted 11/21/2020)
T82.522S	Displacement of artificial heart, sequela (Deleted 11/21/2020)
T82.523A	Displacement of balloon (counterpulsation) device, initial encounter (Deleted 11/21/2020)
T82.523D	Displacement of balloon (counterpulsation) device, subsequent encounter (Deleted 11/21/2020)
T82.523S	Displacement of balloon (counterpulsation) device, sequela (Deleted 11/21/2020)
T82.528A	Displacement of other cardiac and vascular devices and implants, initial encounter (Deleted 11/21/2020)
T82.528D	Displacement of other cardiac and vascular devices and implants, subsequent encounter (Deleted 11/21/2020)
T82.528S	Displacement of other cardiac and vascular devices and implants, sequela (Deleted 11/21/2020)
T82.533A	Leakage of balloon (counterpulsation) device, initial encounter (Deleted 11/21/2020)
T82.533D	Leakage of balloon (counterpulsation) device, subsequent encounter (Deleted 11/21/2020)
T82.533S	Leakage of balloon (counterpulsation) device, sequela (Deleted 11/21/2020)
T82.538A	Leakage of other cardiac and vascular devices and implants, initial encounter(Deleted 11/21/2020)
T82.538D	Leakage of other cardiac and vascular devices and implants, subsequent encounter (Deleted 11/21/2020)
T82.538S	Leakage of other cardiac and vascular devices and implants, sequela (Deleted 11/21/2020)
T82.592A	Other mechanical complication of artificial heart, initial encounter (Deleted 11/21/2020)
T82.592D	Other mechanical complication of artificial heart, subsequent encounter(Deleted 11/21/2020)
T82.592S	Other mechanical complication of artificial heart, sequela (Deleted 11/21/2020)
T82.593A	Other mechanical complication of balloon (counterpulsation) device, initial encounter (Deleted 11/21/2020)
T82.593D	Other mechanical complication of balloon (counterpulsation) device, subsequent encounter (Deleted 11/21/2020)

Diagnosis Code	Description
T82.593S	Other mechanical complication of balloon (counterpulsation) device, sequela (Deleted 11/21/2020)
T82.598A	Other mechanical complication of other cardiac and vascular devices and implants, initial encounter (Deleted 11/21/2020)
T82.598D	Other mechanical complication of other cardiac and vascular devices and implants, subsequent encounter (Deleted 11/21/2020)
T82.598S	Other mechanical complication of other cardiac and vascular devices and implants, sequela (Deleted 11/21/2020)
Z45.010	Encounter for checking and testing of cardiac pacemaker pulse generator [battery]
Z45.018	Encounter for adjustment and management of other part of cardiac pacemaker
Z48.21	Encounter for aftercare following heart transplant (Deleted 11/21/2020)
Z48.280	Encounter for aftercare following heart-lung transplant (Deleted 11/21/2020)
Z94.1	Heart transplant status (Deleted 11/21/2020)
Z94.3	Heart and lungs transplant status (Deleted 11/21/2020)
Z95.1	Presence of aortocoronary bypass graft (Deleted 11/21/2020)
Z95.3	Presence of xenogenic heart valve (Deleted 11/21/2020)
Z95.4	Presence of other heart-valve replacement (Deleted 11/21/2020)

References

CMS Local Coverage Determinations (LCDs) and Articles

LCD	Article	Contractor	Medicare Part A	Medicare Part B
L35490 Category III Codes	A56902 Billing and Coding: Category III Codes	WPS	AK, AL, AR, AZ, CA, CO, CT, DE, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MA, MD, ME, MI, MO, MS, MT, NC, ND, NE, NH, NJ, NM, NV, OH, OK, OR, PA, RI, SC, SD, TN, TX, UT, VA, VT, WA, WI, WV, WY	IA, IN, KS, MI, MO, NE
L33559 Cardiac Computed Tomography (CCT) and Coronary Computed Tomography Angiography (CCTA)	A56737 Billing and Coding: Cardiac Computed Tomography (CCT) and Coronary Computed Tomography Angiography (CCTA)	NGS	CT, IL, MA, ME, MN, NH, NY, RI, VT, WI	CT, IL, MA, ME, MN, NH, NY, RI, VT, WI
L35008 Non-Covered Services Retired 06/30/2020	A55681 Additional Information Required for Coverage and Pricing for Category III CPT® Codes Retired 06/30/2020	Noridian	AZ, AK, ID, MT, NC, SC, UT, WA, OR	AZ, AK, ID, MT, NC, SC, UT, WA, OR
L36219 Non-Covered Services Retired 06/30/2020	A55607 Additional Information Required for Coverage and Pricing for Category III CPT® Codes Retired 06/30/2020	Noridian	AS, CA, GA, HI, NV, MP	AS, CA, GA, HI, NV, MP

Guideline History/Revision Information

Revisions to this summary document do not in any way modify the requirement that services be provided and documented in accordance with the Medicare guidelines in effect on the date of service in question.

Date	Summary of Changes
04/01/2021	Template Update <ul style="list-style-type: none">Reformatted policy; transferred content to new template
01/13/2021	Applicable Codes <ul style="list-style-type: none">Added ICD-10 diagnosis code R93.1Added notation to indicate ICD-10 diagnosis codes A18.84, I11.0, I11.9, I25.82, I25.84, I26.01, I26.02, I26.09, I26.92, I26.93, I26.94, I26.99, I27.1, I27.20, I27.21, I27.22, I27.23, I27.24, I27.29, I27.81, I27.82, I27.83, I27.89, I27.9, I28.0, I28.1, I28.8, I28.9, I30.0, I30.1, I30.8, I30.9, I32, I42.1, I42.2, I42.3, I42.4, I42.6, I42.7, I43, I44.4, I44.5, I44.7, I45.2, I45.3, I45.6, I45.89, I46.2, I46.8, I46.9, I49.8, I50.1, I51.7, I70.0, I74.11, M32.12, R94.31, T82.01XA, T82.01XD, T82.01XS, T82.02XA, T82.02XD, T82.02XS, T82.03XA, T82.03XD, T82.03XS, T82.09XA, T82.09XD, T82.09XS, T82.190A, T82.190D, T82.190S, T82.211A, T82.211D, T82.211S, T82.212A, T82.212D, T82.212S, T82.213A, T82.213D, T82.213S, T82.218A, T82.218D, T82.218S, T82.221A, T82.221D, T82.221S, T82.222A, T82.222D, T82.222S, T82.223A, T82.223D, T82.223S, T82.228A, T82.228D, T82.228S, T82.518A, T82.518D, T82.518S, T82.522A, T82.522D, T82.522S, T82.523A, T82.523D, T82.523S, T82.528A, T82.528D, T82.528S, T82.533A, T82.533D, T82.533S, T82.538A, T82.538D, T82.538S, T82.592A, T82.592D, T82.592S, T82.593A, T82.593D, T82.593S, T82.598A, T82.598D, T82.598S, Z48.21, Z48.280, Z94.1, Z94.3, Z95.1, Z95.3, and Z95.4 were “deleted Nov. 21, 2020”Removed ICD-10 diagnosis codes I48.1 and I48.2 Supporting Information <ul style="list-style-type: none">Updated <i>References</i> section to reflect the most current informationArchived previous policy version MPG372.04

Purpose

The Medicare Advantage Policy Guideline documents are generally used to support UnitedHealthcare Medicare Advantage claims processing activities and facilitate providers' submission of accurate claims for the specified services. The document can be used as a guide to help determine applicable:

- Medicare coding or billing requirements, and/or
- Medical necessity coverage guidelines; including documentation requirements.

UnitedHealthcare follows Medicare guidelines such as NCDs, LCDs, LCAs, and other Medicare manuals for the purposes of determining coverage. It is expected providers retain or have access to appropriate documentation when requested to support coverage. Please utilize the links in the [References](#) section below to view the Medicare source materials used to develop this resource document. This document is not a replacement for the Medicare source materials that outline Medicare coverage requirements. Where there is a conflict between this document and Medicare source materials, the Medicare source materials will apply.

Terms and Conditions

The Medicare Advantage Policy Guidelines are applicable to UnitedHealthcare Medicare Advantage Plans offered by UnitedHealthcare and its affiliates.

These Policy Guidelines are provided for informational purposes, and do not constitute medical advice. Treating physicians and healthcare providers are solely responsible for determining what care to provide to their patients. Members should always consult their physician before making any decisions about medical care.

Benefit coverage for health services is determined by the member specific benefit plan document* and applicable laws that may require coverage for a specific service. The member specific benefit plan document identifies which services are covered, which are excluded, and which are subject to limitations. In the event of a conflict, the member specific benefit plan document supersedes the Medicare Advantage Policy Guidelines.

Medicare Advantage Policy Guidelines are developed as needed, are regularly reviewed and updated, and are subject to change. They represent a portion of the resources used to support UnitedHealthcare coverage decision making. UnitedHealthcare may modify these Policy Guidelines at any time by publishing a new version of the policy on this website. Medicare source materials used to develop these guidelines include, but are not limited to, CMS National Coverage Determinations (NCDs), Local Coverage Determinations (LCDs), Medicare Benefit Policy Manual, Medicare Claims Processing Manual, Medicare Program Integrity Manual, Medicare Managed Care Manual, etc. The information presented in the Medicare Advantage Policy Guidelines is believed to be accurate and current as of the date of publication and is provided on an "AS IS" basis. Where there is a conflict between this document and Medicare source materials, the Medicare source materials will apply.

You are responsible for submission of accurate claims. Medicare Advantage Policy Guidelines are intended to ensure that coverage decisions are made accurately based on the code or codes that correctly describe the health care services provided. UnitedHealthcare Medicare Advantage Policy Guidelines use Current Procedural Terminology (CPT®), Centers for Medicare and Medicaid Services (CMS), or other coding guidelines. References to CPT® or other sources are for definitional purposes only and do not imply any right to reimbursement or guarantee claims payment.

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*For more information on a specific member's benefit coverage, please call the customer service number on the back of the member ID card or refer to the [Administrative Guide](#).