

Appendix 1

5-byte version 2 Read codes used to identify the presence of coronary artery disease.

Read code	Description
G3401	Double coronary vessel disease
792..	Coronary artery operations
7920	Saphenous vein graft replacement of coronary artery
79200	Saphenous vein graft replacement of one coronary artery
79201	Saphenous vein graft replacement of two coronary arteries
79202	Saphenous vein graft replacement of three coronary arteries
79203	Saphenous vein graft replacement of four or more coronary arteries
7920y	Other specified saphenous vein graft replacement of coronary artery
7920z	Saphenous vein graft replacement coronary artery NOS
7921	Other autograft replacement of coronary artery
79210	Autograft replacement of one coronary artery NEC
79211	Autograft replacement of two coronary arteries NEC
79212	Autograft replacement of three coronary arteries NEC
79213	Autograft replacement of four of more coronary arteries NEC
7921y	Other specified other autograft replacement of coronary artery
7921z	Other autograft replacement of coronary artery NOS
7922	Allograft replacement of coronary artery
79220	Allograft replacement of one coronary artery
79221	Allograft replacement of two coronary arteries
79222	Allograft replacement of three coronary arteries
79223	Allograft replacement of four or more coronary arteries
7922y	Other specified allograft replacement of coronary artery
7922z	Allograft replacement of coronary artery NOS
7923	Prosthetic replacement of coronary artery
79230	Prosthetic replacement of one coronary artery
79231	Prosthetic replacement of two coronary arteries
79232	Prosthetic replacement of three coronary arteries
79233	Prosthetic replacement of four or more coronary arteries
7923y	Other specified prosthetic replacement of coronary artery
7923z	Prosthetic replacement of coronary artery NOS
7924	Revision of bypass for coronary artery
79240	Revision of bypass for one coronary artery
79241	Revision of bypass for two coronary arteries
79242	Revision of bypass for three coronary arteries
79243	Revision of bypass for four or more coronary arteries
79244	Revision of connection of thoracic artery to coronary artery
79245	Revision of implantation of thoracic artery into heart
7924y	Other specified revision of bypass for coronary artery

7924z	Revision of bypass for coronary artery NOS
7925	Connection of mammary artery to coronary artery
79250	Double anastomosis of mammary arteries to coronary arteries
79251	Double implantation of mammary arteries into coronary arteries
79252	Single anastomosis of mammary artery to left anterior descending coronary artery
79253	Single anastomosis of mammary artery to coronary artery NEC
79254	Single implantation of mammary artery into coronary artery
7925y	Other specified connection of mammary artery to coronary artery
7925z	Connection of mammary artery to coronary artery NOS
7926	Connection of other thoracic artery to coronary artery
79260	Double anastomosis of thoracic arteries to coronary arteries NEC
79261	Double implantation of thoracic arteries into coronary arteries NEC
79262	Single anastomosis of thoracic artery to coronary artery NEC
79263	Single implantation of thoracic artery into coronary artery NEC
7926y	Other specified connection of other thoracic artery to coronary artery
7926z	Connection of other thoracic artery to coronary artery NOS
7927	Other open operations on coronary artery
79273	Transposition of coronary artery NEC
79275	Open angioplasty of coronary artery
7927y	Other specified other open operation on coronary artery
7927z	Other open operation on coronary artery NOS
7928	Transluminal balloon angioplasty of coronary artery
79280	Percutaneous transluminal balloon angioplasty of one coronary artery
79281	Percutaneous transluminal balloon angioplasty of multiple coronary arteries
79282	Percutaneous transluminal balloon angioplasty of bypass graft of coronary artery
79283	Percutaneous transluminal cutting balloon angioplasty of coronary artery
7928y	Other specified transluminal balloon angioplasty of coronary artery
7928z	Transluminal balloon angioplasty of coronary artery NOS
7929	Other therapeutic transluminal operations on coronary artery
79290	Percutaneous transluminal laser coronary angioplasty
79293	Rotary blade coronary angioplasty
79294	Insertion of coronary artery stent
79295	Insertion of drug-eluting coronary artery stent
79296	Percutaneous transluminal atherectomy of coronary artery
7929y	Other specified other therapeutic transluminal operation on coronary artery
7929z	Other therapeutic transluminal operation on coronary artery NOS
792A.	Diagnostic transluminal operations on coronary artery
792A0	Percutaneous transluminal angiography
792Ay	Other specified diagnostic transluminal operation on coronary artery
792Az	Diagnostic transluminal operation on coronary artery NOS
792B.	Repair of coronary artery NEC
792B0	Endarterectomy of coronary artery NEC
792By	Other specified repair of coronary artery
792Bz	Repair of coronary artery NOS

792C.	Other replacement of coronary artery
792C0	Replacement of coronary arteries using multiple methods
792Cy	Other specified replacement of coronary artery
792Cz	Replacement of coronary artery NOS
792D.	Other bypass of coronary artery
792Dy	Other specified other bypass of coronary artery
792Dz	Other bypass of coronary artery NOS
792E.	Percutaneous coronary intervention
792y.	Other specified operations on coronary artery
792z.	Coronary artery operations NOS

5-byte version 2 Read codes used to identify the presence of myocardial infarction.

Read code	Description
323..	ECG: myocardial infarction
3232	ECG: old myocardial infarction
3233	ECG: antero-septal infarct.
3234	ECG:posterior/inferior infarct
3235	ECG: subendocardial infarct
3236	ECG: lateral infarction
323Z.	ECG: myocardial infarct NOS
G30..	Acute myocardial infarction
G300.	Acute anterolateral infarction
G301.	Other specified anterior myocardial infarction
G3010	Acute anteroapical infarction
G3011	Acute anteroseptal infarction
G301z	Anterior myocardial infarction NOS
G302.	Acute inferolateral infarction
G303.	Acute inferoposterior infarction
G304.	Posterior myocardial infarction NOS
G305.	Lateral myocardial infarction NOS
G306.	True posterior myocardial infarction
G307.	Acute subendocardial infarction
G3070	Acute non-Q wave infarction
G3071	Acute non-ST segment elevation myocardial infarction
G308.	Inferior myocardial infarction NOS
G309.	Acute Q-wave infarct
G30B.	Acute posterolateral myocardial infarction
G30X.	Acute transmural myocardial infarction of unspecified site
G30X0	Acute ST segment elevation myocardial infarction
G30y.	Other acute myocardial infarction
G30y0	Acute atrial infarction
G30y1	Acute papillary muscle infarction
G30y2	Acute septal infarction
G30yz	Other acute myocardial infarction NOS

G30z.	Acute myocardial infarction NOS
G310.	Postmyocardial infarction syndrome
G32..	Old myocardial infarction
G35..	Subsequent myocardial infarction
G350.	Subsequent myocardial infarction of anterior wall
G351.	Subsequent myocardial infarction of inferior wall
G353.	Subsequent myocardial infarction of other sites
G35X.	Subsequent myocardial infarction of unspecified site
G36..	Certain current complications following acute myocardial infarction
G360.	Haemopericardium as current complication following acute myocardial infarction
G361.	Atrial septal defect as current complication following acute myocardial infarction
G362.	Ventricular septal defect as current complication following acute myocardial infarction
G363.	Rupture of cardiac wall without haemopericardium as current complication following acute myocardial infarction
G364.	Rupture of chordae tendinae as current complication following acute myocardial infarction
G365.	Rupture of papillary muscle as current complication following acute myocardial infarction
G366.	Thrombosis of atrium, auricular appendage, and ventricle as current complications following acute myocardial infarction
G38..	Postoperative myocardial infarction
G380.	Postoperative transmural myocardial infarction of anterior wall
G381.	Postoperative transmural myocardial infarction of inferior wall
G382.	Postoperative transmural myocardial infarction of other sites
G383.	Postoperative transmural myocardial infarction of unspecified site
G384.	Postoperative subendocardial myocardial infarction
G38z.	Postoperative myocardial infarction, unspecified
14A3.	H/O: myocardial infarct <60
14A4.	H/O: myocardial infarct >60
14AH.	H/O: Myocardial infarction in last year
14AT.	History of myocardial infarction
14AW.	H/O acute coronary syndrome

5-byte version 2 Read codes used to identify the presence of angina.

Read code	Description
14A5.	H/O: angina pectoris
662K.	Angina control
662K0	Angina control - good
662K1	Angina control - poor
662K2	Angina control - improving
662K3	Angina control - worsening
662K4	Angina self management plan commenced
662K5	Angina self management plan completed
662Kz	Angina control NOS

G3111	Unstable angina
G3112	Angina at rest
G3113	Refractory angina
G3114	Worsening angina
G33..	Angina pectoris
G330.	Angina decubitus
G3300	Nocturnal angina
G330z	Angina decubitus NOS
G331.	Prinzmetal's angina
G332.	Coronary artery spasm
G33z.	Angina pectoris NOS
G33z0	Status anginosus
G33z1	Stenocardia
G33z2	Syncope anginosa
G33z3	Angina on effort
G33z4	Ischaemic chest pain
G33z5	Post infarct angina
G33z6	New onset angina
G33z7	Stable angina
G33zz	Angina pectoris NOS

5-byte version 2 Read codes used to identify the presence of atrial fibrillation.

Read code	Description
3272.	ECG: atrial fibrillation
3273.	ECG: atrial flutter
38DE.	Congestive heart failure, hypertension, age, diabetes, stroke 2 risk score
38DE.	CHADS2 risk score
38DE0	Congestive heart failure, hypertension, age 2, diabetes mellitus, stroke 2, vascular disease, age, sex category score
6A9..	Atrial fibrillation annual review
7936A	Implantation of intravenous pacemaker for atrial fibrillation
8CMW2	Atrial fibrillation care pathway
8HTy.	Referral to atrial fibrillation clinic
8OAD.	Provision of written information about atrial fibrillation
9hF..	Exception reporting: atrial fibrillation quality indicators
9hF0.	Excepted from atrial fibrillation quality indicators: Patient unsuitable
9hF1.	Excepted from atrial fibrillation quality indicators: Informed dissent
9Os..	Atrial fibrillation monitoring administration
9Os0.	Atrial fibrillation monitoring first letter
9Os1.	Atrial fibrillation monitoring second letter
9Os2.	Atrial fibrillation monitoring third letter
9Os3.	Atrial fibrillation monitoring verbal invite
9Os4.	Atrial fibrillation monitoring telephone invite
G573.	Atrial fibrillation and flutter

G5730	Atrial fibrillation
G5731	Atrial flutter
G5733	Non-rheumatic atrial fibrillation
G5734	Permanent atrial fibrillation
G5735	Persistent atrial fibrillation
G573z	Atrial fibrillation and flutter NOS
662S.	Atrial fibrillation monitoring
14AN.	H/O: atrial fibrillation

5-byte version 2 Read codes used to identify the presence of peripheral vascular disease.

Read code	Description
16l..	Claudication distance
G732.	Peripheral gangrene
G7320	Gangrene of toe
G7321	Gangrene of foot
G7322	Gangrene of finger
G7323	Gangrene of thumb
G7324	Gangrene of hand
G733.	Ischaemic foot
G734.	Peripheral arterial disease
G73y.	Other specified peripheral vascular disease
G73y0	Diabetic peripheral angiopathy
G73y1	Peripheral angiopathic disease EC NOS
G73y2	Acrocyanosis
G73yz	Other specified peripheral vascular disease NOS
G702.	Extremity artery atheroma
G7020	Monckeberg's medial sclerosis
G702z	Extremity artery atheroma NOS
G73z.	Peripheral vascular disease NOS
G73z0	Intermittent claudication
G73z1	Spasm of peripheral artery
G73zz	Peripheral vascular disease NOS

5-byte version 2 Read codes used to identify the presence of stroke and transient ischaemic attack.

Read code	Description
G63y0	Cerebral infarct due to thrombosis of precerebral arteries
G63y1	Cerebral infarction due to embolism of precerebral arteries
G64..	Cerebral arterial occlusion
G640.	Cerebral thrombosis
G6400	Cerebral infarction due to thrombosis of cerebral arteries
G641.	Cerebral embolism
G6410	Cerebral infarction due to embolism of cerebral arteries
G64z.	Cerebral infarction NOS

G64z0	Brainstem infarction
G64z1	Wallenberg syndrome
G64z2	Left sided cerebral infarction
G64z3	Right sided cerebral infarction
G64z4	Infarction of basal ganglia
G65..	Transient cerebral ischaemia
G650.	Basilar artery syndrome
G651.	Vertebral artery syndrome
G6510	Vertebro-basilar artery syndrome
G652.	Subclavian steal syndrome
G653.	Carotid artery syndrome hemispheric
G654.	Multiple and bilateral precerebral artery syndromes
G656.	Vertebrobasilar insufficiency
G657.	Carotid territory transient ischaemic attack
G65y.	Other transient cerebral ischaemia
G65z.	Transient cerebral ischaemia NOS
G65z0	Impending cerebral ischaemia
G65z1	Intermittent cerebral ischaemia
G65zz	Transient cerebral ischaemia NOS
G66..	Stroke and cerebrovascular accident unspecified
G660.	Middle cerebral artery syndrome
G661.	Anterior cerebral artery syndrome
G662.	Posterior cerebral artery syndrome
G663.	Brain stem stroke syndrome
G664.	Cerebellar stroke syndrome
G665.	Pure motor lacunar syndrome
G666.	Pure sensory lacunar syndrome
G667.	Left sided CVA
G668.	Right sided CVA
G6760	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic
G6W..	Cerebral infarction due to unspecified occlusion or stenosis of precerebral arteries
G6X..	Cerebral infarction due to unspecified occlusion or stenosis of cerebral arteries
Gyu63	[X]Cerebral infarction due to unspecified occlusion or stenosis of cerebral arteries
Gyu64	[X]Other cerebral infarction
Gyu65	[X]Occlusion and stenosis of other precerebral arteries
Gyu66	[X]Occlusion and stenosis of other cerebral arteries
Gyu6G	[X]Cerebral infarction due to unspecified occlusion or stenosis of precerebral arteries
Fyu55	[X]Other transient cerebral ischaemic attacks and related syndromes
Fyu56	[X]Other lacunar syndromes

5-byte version 2 Read codes used to identify the presence of congestive cardiac failure.

Read code	Description
662f.	New York Heart Association classification - class I
662g.	New York Heart Association classification - class II
662h.	New York Heart Association classification - class III
662i.	New York Heart Association classification - class IV
G1yz1	Rheumatic left ventricular failure
G58..	Heart failure
G58..	Cardiac failure
G580.	Congestive heart failure
G580.	Congestive cardiac failure
G580.	Right heart failure
G580.	Right ventricular failure
G580.	Biventricular failure
G5800	Acute congestive heart failure
G5801	Chronic congestive heart failure
G5802	Decompensated cardiac failure
G5803	Compensated cardiac failure
G5804	Congestive heart failure due to valvular disease
G581.	Left ventricular failure
G581.	Asthma - cardiac
G581.	Pulmonary oedema - acute
G581.	Impaired left ventricular function
G5810	Acute left ventricular failure
G582.	Acute heart failure
G583.	Heart failure with normal ejection fraction
G583.	HFNEF - heart failure with normal ejection fraction
G583.	Heart failure with preserved ejection fraction
G584.	Right ventricular failure
G58z.	Heart failure NOS
G58z.	Weak heart
G58z.	Cardiac failure NOS
14A6.	H/O: heart failure
14AM.	H/O: Heart failure in last year
14S3.	H/O: heart recipient
14T7.	H/O: artificial heart
101..	Heart failure confirmed
662p.	Heart failure 6 month review
662T.	Congestive heart failure monitoring
662W.	Heart failure annual review
679X.	Heart failure education
679W1	Education about deteriorating heart failure
67D4.	Heart failure information given to patient
7900	Transplantation of heart and lung

79000	Allotransplantation of heart and lung
79001	Revision of transplantation of heart and lung
7900y	Other specified transplantation of heart and lung
7900z	Transplantation of heart and lung NOS
7901	Other transplantation of heart
79010	Allotransplantation of heart NEC
79011	Xenotransplantation of heart
79013	Piggyback transplantation of heart
79014	Revision of implantation of prosthetic heart
79015	Revision of transplantation of heart NEC
7901y	Other specified other transplantation of heart
7901z	Other transplantation of heart NOS
79379	Implantation of biventricular cardiac pacemaker system
7936J	Implantation of intravenous biventricular cardiac pacemaker system
7933	Transluminal heart assist operations
79330	Transluminal insertion of pulsation balloon into aorta
79331	Transluminal insertion of heart assist system NEC
79332	Transluminal maintenance of heart assist system
79334	Implantation of ventricular assist device
79335	Implantation of right ventricular assist device
79336	Implantation of left ventricular assist device
79337	Implantation of biventricular assist device
7933y	Other specified transluminal heart assist operation
7933z	Transluminal heart assist operation NOS
793L.	Open heart assist operations
793L0	Open implantation of ventricular assist device
793Ly	Other specified open heart assist operations
793Lz	Open heart assist operations NOS
8B29.	Cardiac failure therapy
8CeC.	Preferred place of care for next exacerbation of heart failure
8CL3.	Heart failure care plan discussed with patient
8CMK.	Has heart failure management plan
8CMW8	Heart failure clinical pathway
8H2S.	Admit heart failure emergency
8HBE.	Heart failure follow-up
8HHb.	Referral to heart failure nurse
8HHz.	Referral to heart failure exercise programme
8Hk0.	Referred to heart failure education group
8HTL.	Referral to heart failure clinic
8HTL0	Referral to rapid access heart failure clinic
9Or0.	Heart failure review completed
9N0k.	Seen in heart failure clinic
9N2p.	Seen by community heart failure nurse
G2101	Malignant hypertensive heart disease with congestive cardiac failure

G2111	Benign hypertensive heart disease with congestive cardiac failure
G21z1	Hypertensive heart disease NOS with congestive cardiac failure
G232.	Hypertensive heart and renal disease with (congestive) heart failure
G234.	Hypertensive heart and renal disease with both (congestive) heart failure and renal failure
Q48y1	Congenital cardiac failure
Q490.	Neonatal cardiac failure
SP084	Heart transplant failure and rejection
SP085	Heart-lung transplant failure and rejection
TB000	Transplantation of heart as the cause of abnormal reaction of patient, or of later complication, without mention of misadventure at the time of operation
ZV421	[V]Heart transplanted
ZV45M	[V]Biventricular pacemaker in situ