

Appendices

Appendix 1: Read and drug codes for: (a) fatigue, (b) anxiety, (c) depression, (d) anxiety and depression (e) post-traumatic stress disorder (PTSD) and (f) cognitive impairment.

a) Fatigue

Read code	Description
168..00	Tiredness symptom
168..11	Fatigue - symptom
168..12	Lethargy - symptom
168..13	Malaise - symptom
168..14	C/O "muzzy head"
1682.00	Fatigue
1683.00	Tired all the time
1683.11	C/O - "tired all the time"
1684.00	Malaise/lethargy
1684.11	C/O - debility - malaise
1684.13	C/O - postviral syndrome
1688.00	Exhaustion
168Z.00	Tiredness symptom NOS
1B3..12	Weakness symptoms
1B32.00	Weakness present
8HkW.00	Referral to chronic fatigue syndrome specialist team
8HIL.00	Referral for chronic fatigue syndrome activity management
8Q1..00	Activity management for chronic fatigue syndrome
E205.00	Neurasthenia - nervous debility
E205.11	Nervous exhaustion
E205.12	Tired all the time
Eu46011	[X]Fatigue syndrome
F286.00	Chronic fatigue syndrome
F286.11	CFS - chronic fatigue syndrome
F286.12	Postviral fatigue syndrome
F286.13	PVFS - post viral fatigue syndrome
F286.14	Post-viral fatigue syndrome
F286.15	Myalgic encephalomyelitis
F286.16	ME - myalgic encephalomyelitis
F286000	Mild chronic fatigue syndrome
F286100	Moderate chronic fatigue syndrome
F286200	Severe chronic fatigue syndrome
R007.00	[D]Malaise and fatigue
R007000	[D]Malaise
R007100	[D]Fatigue
R007200	[D]Asthenia NOS

R007211	[D]General weakness
R007300	[D]Lethargy
R007400	[D]Postviral (asthenic) syndrome
R007411	[D]Post viral debility
R007500	[D]Tiredness
R007600	[D]Post polio exhaustion
R007z00	[D]Malaise and fatigue NOS
R007z11	[D]Lassitude

CFS Chronic fatigue syndrome; ME Myalgic encephalomyelitis; NOS Not otherwise specified; PVFS Post viral fatigue syndrome; C/O Complaining of; [D] Diagnosis; [X] Cross referenced to specific ICD-10 codes (READ 2 relates to ICD-9)

b) Anxiety

Read code	Description
1466.00	H/O: Anxiety state
16ZB100	Feeling low or worried
173f.00	Anxiety about breathlessness
1B1H.00	Frightened
1B1H.11	Fear
1B1H.12	Apprehension
1B1T.00	Feeling stressed
1B1V.00	C/O - Panic attack
1BK..00	Worried
1P3..00	Compulsive behaviour
2253.00	O/E - Distressed
225J.00	O/E - Panic attack
225K.00	O/E - Fearful mood
67J..00	Stress counselling
8G94.00	Anxiety management training
8HHp.00	Referral for guided self-help for anxiety
9N54.00	Encounter for fear
E200.00	Anxiety states
E200000	Anxiety state unspecified
E200100	Panic disorder
E200111	Panic attack
E200200	Generalised anxiety disorder
E200400	Chronic anxiety
E200500	Recurrent anxiety
E200z00	Anxiety state NOS
E202.00	Phobic disorders
E202.11	Social phobic disorders
E202.12	Phobic anxiety
E202000	Phobia unspecified
E202100	Agoraphobia with panic attacks
E202200	Agoraphobia without mention of panic attacks

E202D00	Fear of death
E203.00	Obsessive-compulsive disorders
E203.11	Anancastic neurosis
E203000	Compulsive neurosis
E203100	Obsessional neurosis
E203z00	Obsessive-compulsive disorder NOS
E214.00	Compulsive personality disorders
E214000	Anankastic personality
E214100	Obsessional personality
E214z00	Compulsive personality disorder NOS
E28..00	Acute reaction to stress
E280.00	Acute panic state due to acute stress reaction
E281.00	Acute fugue state due to acute stress reaction
E282.00	Acute stupor state due to acute stress reaction
E283.00	Other acute stress reactions
E283z00	Other acute stress reaction NOS
E284.00	Stress reaction causing mixed disturbance of emotion/conduct
E28z.00	Acute stress reaction NOS
Eu05400	[X]Organic anxiety disorder
Eu4..00	[X]Neurotic, stress - related and somoform disorders
Eu40.00	[X]Phobic anxiety disorders
Eu40000	[X]Agoraphobia
Eu40011	[X]Agoraphobia without history of panic disorder
Eu40012	[X]Panic disorder with agoraphobia
Eu40100	[X]Social phobias
Eu40112	Social neurosis
Eu41.00	[X]Other anxiety disorders
Eu41000	[X]Panic disorder [episodic paroxysmal anxiety]
Eu41011	[X]Panic attack
Eu41012	[X]Panic state
Eu41100	[X]Generalized anxiety disorder
Eu41111	[X]Anxiety neurosis
Eu41112	[X]Anxiety reaction
Eu41113	[X]Anxiety state
Eu41200	[X]Mixed anxiety and depressive disorder
Eu41y00	[X]Other specified anxiety disorders
Eu41y11	[X]Anxiety hysteria
Eu41z00	[X]Anxiety disorder, unspecified
Eu41z11	[X]Anxiety NOS
Eu42.00	[X]Obsessive - compulsive disorder
Eu42.11	[X]Anankastic neurosis
Eu42.12	[X]Obsessive-compulsive neurosis
Eu42100	[X]Predominantly compulsive acts [obsessional rituals]
Eu42y00	[X]Other obsessive-compulsive disorders
Eu42z00	[X]Obsessive-compulsive disorder, unspecified
Eu43.00	[X]Reaction to severe stress, and adjustment disorders

Eu43000	[X]Acute stress reaction
Eu43012	[X]Acute reaction to stress
Eu43y00	[X]Other reactions to severe stress
Eu43z00	[X]Reaction to severe stress, unspecified
Eu51511	[X]Dream anxiety disorder
Eu60511	[X]Compulsive personality disorder
Eu60513	[X]Obsessive-compulsive personality disorder
Eu63011	[X]Compulsive gambling
Z4I7.00	Acknowledging anxiety
Z4I7100	Recognising anxiety
Z4I7200	Alleviating anxiety
Z4I7211	Reducing anxiety
Z4L1.00	Anxiety counselling
Z522600	Flooding - obsessional compulsive disorder

C/O Complaining of; O/E On Examination; NOS Not otherwise specified; [X] Cross referenced to specific ICD-10 codes (READ 2 relates to ICD-9)

c) Depression

Read code	Description
13Y3.00	Manic-depression association member
1465.00	H/O: Depression
146D.00	H/O: Manic depressive disorder
1B17.00	Depressed
1B17.11	C/O - Feeling depressed
1B1U.00	Symptoms of depression
1B1U.11	Depressive symptoms
1BT..00	Depressed mood
1BT..11	Low mood
1BT..12	Sad mood
1JJ..00	Suspected depression
2257.00	O/E - Depressed
6659000	Antidepressant drug treatment started
8BK0.00	Depression management programme
8CAa.00	Patient given advice about management of depression
8HHq.00	Referral for guided self-help for depression
9H90.00	Depression annual review
9H91.00	Depression medication review
9H92.00	Depression interim review
9HA0.00	On depression register
9hC..00	Exception reporting: depression quality indicators
9hC0.00	Excepted from depression quality indicators: patient unsuitable
9hC1.00	Excepted from depression quality indicators: informed dissent
9k4..00	Depression - enhanced services administration
9k40.00	Depression - enhanced service completed
9kQ..00	On full dose long term treatment depression

9kQ..11	On full dose long term treatment for depression
9Ov..00	Depression monitoring administration
9Ov0.00	Depression monitoring first letter
9Ov1.00	Depression monitoring second letter
9Ov2.00	Depression monitoring third letter
9Ov3.00	Depression monitoring verbal invite
9Ov4.00	Depression monitoring telephone invite
E001300	Presenile dementia with depression
E002.00	Senile dementia with depressive or paranoid features
E002100	Senile dementia with depression
E002z00	Senile dementia with depressive or paranoid features NOS
E004300	Arteriosclerotic dementia with depression
E03y200	Organic affective syndrome
E11..00	Affective psychoses
E11..11	Bipolar psychoses
E11..12	Depressive psychoses
E112.00	Single major depressive episode
E112.11	Agitated depression
E112.12	Endogenous depression first episode
E112.13	Endogenous depression first episode
E112.14	Endogenous depression
E112000	Single major depressive episode, unspecified
E112100	Single major depressive episode, mild
E112200	Single major depressive episode, moderate
E112300	Single major depressive episode, severe, without psychosis
E112400	Single major depressive episode, severe, with psychosis
E112500	Single major depressive episode, partial or unspecified remission
E112600	Single major depressive episode, in full remission
E112z00	Single major depressive episode NOS
E113.00	Recurrent major depressive episode
E113.11	Endogenous depression - recurrent
E113000	Recurrent major depressive episodes, unspecified
E113100	Recurrent major depressive episodes, mild
E113200	Recurrent major depressive episodes, moderate
E113300	Recurrent major depressive episodes, severe, no psychosis
E113400	Recurrent major depressive episodes, severe, with psychosis
E113500	Recurrent major depressive episodes, partial/unspecified remission
E113600	Recurrent major depressive episodes, in full remission
E113700	Recurrent depression
E113z00	Recurrent major depressive episode NOS
E115.00	Bipolar affective disorder, currently depressed
E115.11	Manic-depressive - now depressed
E115000	Bipolar affective disorder, currently depressed, unspecified
E115100	Bipolar affective disorder, currently depressed, mild
E115200	Bipolar affective disorder, currently depressed, moderate
E115300	Bipolar affect disorder, now depressed, severe, no psychosis

E115400	Bipolar affect disorder, now depressed, severe with psychosis
E115500	Bipolar affect disorder, now depressed, part/unspecified remission
E115600	Bipolar affective disorder, now depressed, in full remission
E115z00	Bipolar affective disorder, currently depressed, NOS
E116.00	Mixed bipolar affective disorder
E116000	Mixed bipolar affective disorder, unspecified
E116100	Mixed bipolar affective disorder, mild
E116200	Mixed bipolar affective disorder, moderate
E116300	Mixed bipolar affective disorder, severe, without psychosis
E116400	Mixed bipolar affective disorder, severe, with psychosis
E116500	Mixed bipolar affective disorder, partial/unspecified remission
E116600	Mixed bipolar affective disorder, in full remission
E116z00	Mixed bipolar affective disorder, NOS
E117.00	Unspecified bipolar affective disorder
E117000	Unspecified bipolar affective disorder, unspecified
E117100	Unspecified bipolar affective disorder, mild
E117200	Unspecified bipolar affective disorder, moderate
E117300	Unspecified bipolar affective disorder, severe, no psychosis
E117400	Unspecified bipolar affective disorder, severe with psychosis
E117500	Unspecified bipolar affect disorder, partial/unspecified remission
E117600	Unspecified bipolar affective disorder, in full remission
E117z00	Unspecified bipolar affective disorder, NOS
E118.00	Seasonal affective disorder
E11y.00	Other and unspecified manic-depressive psychoses
E11y000	Unspecified manic-depressive psychoses
E11y200	Atypical depressive disorder
E11y300	Other mixed manic-depressive psychoses
E11yz00	Other and unspecified manic-depressive psychoses NOS
E11z.00	Other and unspecified affective psychoses
E11z000	Unspecified affective psychoses NOS
E11z100	Rebound mood swings
E11z200	Masked depression
E11zz00	Other affective psychosis NOS
E130.00	Reactive depressive psychosis
E130.11	Psychotic reactive depression
E135.00	Agitated depression
E204.00	Neurotic depression reactive type
E211.00	Affective personality disorder
E211000	Unspecified affective personality disorder
E211200	Depressive personality disorder
E290.00	Brief depressive reaction
E290z00	Brief depressive reaction NOS
E291.00	Prolonged depressive reaction
E292400	Adjustment reaction with anxious mood
E2B..00	Depressive disorder NEC
E2B0.00	Postviral depression

E2B1.00	Chronic depression
Eu05300	[X]Organic mood [affective] disorders
Eu06y11	[X]Right hemispheric organic affective disorder
Eu20400	[X]Post-schizophrenic depression
Eu3..00	[X]Mood - affective disorders
Eu31.00	[X]Bipolar affective disorder
Eu31.11	[X]Manic-depressive illness
Eu31.12	[X]Manic-depressive psychosis
Eu31.13	[X]Manic-depressive reaction
Eu31300	[X]Bipolar affective disorder cur epi mild or moderate depression
Eu31400	[X]Bipolar affective disorder, current episode sever depress, no psychotic symptoms
Eu31500	[X]Bipolar affective disorder cur epi severe depression with psychotic symptoms
Eu31600	[X]Bipolar affective disorder, current episode mixed
Eu31700	[X]Bipolar affective disorder, currently in remission
Eu31800	[X]Bipolar affective disorder type i
Eu31900	[X]Bipolar affective disorder type ii
Eu31911	[X]Bipolar ii disorder
Eu31y00	[X]Other bipolar affective disorders
Eu31y11	[X]Bipolar ii disorder
Eu31z00	[X]Bipolar affective disorder, unspecified
Eu32.00	[X]Depressive episode
Eu32.11	[X]Single episode of depressive reaction
Eu32.12	[X]Single episode of psychogenic depression
Eu32.13	[X]Single episode of reactive depression
Eu32000	[X]Mild depressive episode
Eu32100	[X]Moderate depressive episode
Eu32200	[X]Severe depressive episode without psychotic symptoms
Eu32211	[X]Single episode agitated depression without psychotic symptoms
Eu32212	[X]Single episode major depression without psychotic symptoms
Eu32213	[X]Single episode vital depression without psychotic symptoms
Eu32300	[X]Severe depressive episode with psychotic symptoms
Eu32311	[X]Single episode of major depression and psychotic symptoms
Eu32312	[X]Single episode of psychogenic depressive psychosis
Eu32313	[X]Single episode of psychotic depression
Eu32314	[X]Single episode of reactive depressive psychosis
Eu32400	[X]Mild depression
Eu32500	[X]Major depression, mild
Eu32600	[X]Major depression, moderately severe
Eu32700	[X]Major depression, severe without psychotic symptoms
Eu32800	[X]Major depression, severe with psychotic symptoms
Eu32y00	[X]Other depressive episodes
Eu32y11	[X]Atypical depression
Eu32y12	[X]Single episode of masked depression NOS
Eu32z00	[X]Depressive episode, unspecified

Eu32z11	[X]Depression NOS
Eu32z12	[X]Depressive disorder NOS
Eu32z13	[X]Prolonged single episode of reactive depression
Eu32z14	[X] Reactive depression NOS
Eu33.00	[X]Recurrent depressive disorder
Eu33.11	[X]Recurrent episodes of depressive reaction
Eu33.12	[X]Recurrent episodes of psychogenic depression
Eu33.13	[X]Recurrent episodes of reactive depression
Eu33.14	[X]Seasonal depressive disorder
Eu33.15	[X]SAD - seasonal affective disorder
Eu33000	[X]Recurrent depressive disorder, current episode mild
Eu33100	[X]Recurrent depressive disorder, current episode moderate
Eu33200	[X]Recurrent depress disorder current episode severe without psychotic symptoms
Eu33211	[X]Endogenous depression without psychotic symptoms
Eu33212	[X]Major depression, recurrent without psychotic symptoms
Eu33213	[X]Manic-depress psychosis, depressed, no psychotic symptoms
Eu33214	[X]Vital depression, recurrent without psychotic symptoms
Eu33300	[X]Recurrent depress disorder cur epi severe with psychotic symptoms
Eu33311	[X]Endogenous depression with psychotic symptoms
Eu33312	[X]Manic-depress psychosis, depressed type + psychotic symptoms
Eu33313	[X]Recurrent severe episodes/major depression + psychotic symptom
Eu33314	[X]Recurrent severe episodes/psychogenic depressive psychosis
Eu33315	[X]Recurrent severe episodes of psychotic depression
Eu33316	[X]Recurrent severe episodes/reactive depressive psychosis
Eu33400	[X]Recurrent depressive disorder, currently in remission
Eu33y00	[X]Other recurrent depressive disorders
Eu33z00	[X]Recurrent depressive disorder, unspecified
Eu33z11	[X]Monopolar depression NOS
Eu34.00	[X]Persistent mood affective disorders
Eu34011	[X]Affective personality disorder
Eu34100	[X]Dysthymia
Eu34111	[X]Depressive neurosis
Eu34112	[X]Depressive personality disorder
Eu34113	[X]Neurotic depression
Eu34y00	[X]Other persistent mood affective disorders
Eu34z00	[X]Persistent mood affective disorder, unspecified
Eu3y.00	[X]Other mood affective disorders
Eu3y000	[X]Other single mood affective disorders
Eu3y011	[X]Mixed affective episode
Eu3y100	[X]Other recurrent mood affective disorders
Eu3y111	[X]Recurrent brief depressive episodes
Eu3yy00	[X]Other specified mood affective disorders
Eu3z.00	[X]Unspecified mood affective disorder
Eu3z.11	[X]Affective psychosis NOS
Eu92000	[X]Depressive conduct disorder

ZV11100	[V]Personal history of affective disorder
ZV11111	[V]Personal history of manic-depressive psychosis
ZV11112	[V]Personal history of manic-depressive psychosis

C/O Complaining of; H/O History of; O/E On Examination; NEC Not elsewhere classified; NOS Not otherwise specified; SAD Seasonal affective disorder; [V] Correspond to the ICD-9 chapter that allows the recording of supplementary factors influencing health status or contact with health services other than for illness; [X] Cross referenced to specific ICD-10 codes (READ 2 relates to ICD-9)

d) Depression and anxiety

Read code	Description
E200300	Anxiety with depression
Eu34114	[X]Persistent anxiety depression
Eu41200	[X]Mixed anxiety and depressive disorder
Eu41211	[X]Mild anxiety depression

[X] Cross referenced to specific ICD-10 codes (READ 2 relates to ICD-9)

e) PTSD

Read code	Description
E28..11	Combat fatigue
E29y100	Other post-traumatic stress disorder
E2A2.11	Post-traumatic brain syndrome
Eu43013	[X]Combat fatigue
Eu43100	[X]Post - traumatic stress disorder
E283100	Acute posttrauma stress state

[X] Cross referenced to specific ICD-10 codes (READ 2 relates to ICD-9)

f) Cognitive impairment

Read code	Description
1B1A.00	Memory loss - amnesia
1B1A.11	Amnesia symptom
1B1A.12	Memory loss symptom
1B1A.13	Memory disturbance
1BR..00	Reduced concentration
1BR0.00	Reduced concentration span
1BR0.11	Short attention span
1BW..00	Poor concentration
1S21.00	Disturbance of memory for order of events
28E..00	Cognitive decline
28E0.00	Mild cognitive impairment
28E1.00	Moderate cognitive impairment
28E2.00	Severe cognitive impairment

3A10.00	Memory: own age not known
3A20.00	Memory: present time not known
3A30.00	Memory: present place not known
3A40.00	Memory: present year not known
3A50.00	Memory: own DOB not known
3A60.00	Memory: present month not known
3A70.00	Memory: important event not known
3A80.00	Memory: important person not known
3A91.00	Memory: count down unsuccessful
3AA1.00	Memory: address recall unsuccessful
3AE1.00	GDS level 2 - very mild cognitive decline
3AE2.00	GDS level 3 - mild cognitive decline
3AE3.00	GDS level 4 - moderate cognitive decline
3AE4.00	GDS level 5 - moderately severe cognitive decline
3AE5.00	GDS level 6 - severe cognitive decline
3AE6.00	GDS level 7 - very severe cognitive decline
Eu80100	[X]Expressive language disorder
Eu80200	[X]Receptive language disorder
F481J00	Visual disorientation syndrome
R00z011	[D]Memory deficit
R00zX00	[D]Disorientation, unspecified
Ryu5.00	[X]Symptoms/signs involving cognition, percept, emotion state & behaviour
Ryu5100	[X]Other & unspecified symptom/signs involving cognitive function/awareness
Ryu5700	[X]Disorientation, unspecified
Z73..00	Cognitive intervention strategies
Z7A1.00	Cognitive skills training
Z7A1100	Concentration skills training
Z7A1300	Memory skills training
Z7A1400	Attention training
Z7A1500	Memory retraining
Z7A1600	Orientation training
Z7A1700	Reality orientation
Z7A1711	RO - reality orientation
Z7A1712	Reality orientation approach
Z7A1A00	Executive functions training
Z7A2100	Strategy training for cognitive skills
Z7A2200	Strategy training for perceptual skills
Z7A2300	Strategy training for executive skills
Z7C1.00	Impaired cognition
Z7C2200	Unable to recognise sounds
Z7C2600	Unable to recognise surroundings
Z7C2700	Mistakes people's identity
Z7C2900	Does not recognise self
Z7C2A00	Does not recognise photographs of self

Z7C2B00	Does not recognise self in mirror
Z7C2D00	Unable to recognise parts of own body
Z7C2F00	Unable to recognise own fingers
Z7C2H00	Unable to recognise objects
Z7C2J00	Unable to recognise objects by touch
Z7C2L00	Unable to recognise objects by sight
Z7C2L11	Unable to recognise objects visually
Z7C2N00	Unable to recognise warning sounds
Z7C2P00	Unable to recognise faces
Z7C2R00	Unable to recognise faces by sight
Z7C2T00	Unable to recognise familiar people
Z7C3200	Unable to reason
Z7C3300	Difficulty reasoning
Z7C3500	Unable to use verbal reasoning
Z7C3600	Difficulty using verbal reasoning
Z7C3800	Unable to use arithmetic reasoning
Z7C3900	Difficulty using arithmetic reasoning
Z7C3B00	Unable to use visuospatial reasoning
Z7C3C00	Difficulty using visuospatial reasoning
Z7C4200	Unable to process information
Z7C4300	Difficulty processing information
Z7C4600	Unable to process information accurately
Z7C4700	Difficulty processing information accurately
Z7C4900	Unable to process information at normal speed
Z7C4A00	Difficulty processing information at normal speed
Z7C4C00	Unable to analyse information
Z7C4D00	Difficulty analysing information
Z7C5100	Unable to concentrate
Z7C5111	Lack of concentration
Z7C5300	Reduced concentration span
Z7C5311	Reduced attention span
Z7C5312	Short attention span
Z7C5313	Short concentration span
Z7C6200	Unable to tell the time
Z7C6300	Difficulty telling the time
Z7C7200	Unable to write
Z7C7300	Difficulty writing
Z7C8200	Unable to read
Z7C8300	Difficulty reading
Z7C9200	Unable to perform logical sequencing
Z7C9300	Difficulty performing logical sequencing
Z7CC311	Orientation confused
Z7CC312	Orientation poor
Z7CC600	Disorientation for person
Z7CC700	Spatial disorientation
Z7CC800	Right-left disorientation

Z7CE400	Memory disturbance (& amnesia (& symptom))
Z7CE412	Memory loss symptom
Z7CE413	Memory loss - amnesia
Z7CE414	Memory disturbance
Z7CE415	Loss of memory
Z7CE611	Memory loss
Z7CE612	Memory gone
Z7CE614	Memory loss - amnesia
Z7CE615	Loss of memory
Z7CE616	LOM - loss of memory
Z7CEA11	Impairment of working memory
Z7CEA13	Impairment of primary memory
Z7CEB11	Loss of memory for remote events
Z7CEB12	Poor memory for remote events
Z7CEC11	Loss of memory for recent events
Z7CEC12	No memory for recent events
Z7CEF00	Temporary loss of memory
Z7CEG00	Transient memory loss
Z7CEH00	Memory impairment
Z7CEH11	Memory dysfunction
Z7CEH12	Memory deficit
Z7CEH13	Bad memory
Z7CEH14	Memory problem
Z7CEH15	Poor memory
Z7CEJ00	Memory lapses
Z7CEK00	Minor memory lapses
Z7CEL00	Mild memory disturbance
Z7CEM00	Distortion of memory
Z7CEN11	Invents experiences to compensate for loss of memory
Z7CF800	Poor short-term memory
Z7CF811	Short-term memory loss
Z7CFO00	Poor long-term memory
Z7CFO11	Long-term memory loss
Z7CFw00	Memory aided by use of diary
Z7CFx00	Memory aided by use of labels
Z7CFz00	Memory aided by use of lists
Z7CGP00	Delayed verbal memory
Z7CI100	Difficulty making plans
Z7CI200	Difficulty making decisions
Z7CI500	Unable to use decision-making strategies
Z7CI600	Difficulty using decision-making strategies
Z7CI900	Unable to make considered choices
Z7CIA00	Difficulty making considered choices
Z7CJ100	Difficulty solving problems

DOB Date of birth; GDS Global deterioration scale ; LOM Loss of memory; RO Reality orientation; [D] Diagnosis; [X] Cross referenced to specific ICD-10 codes (READ 2 relates

to ICD-9)

Appendix 2: Read codes for (a) transient ischaemic attack (TIA) and (b) stroke.

a) TIA

Read code	Description
Fyu5500	[X]Other transient cerebral ischaemic attacks + related syndromes
G65..00	Transient cerebral ischaemia
G65..11	Drop attack
G65..12	Transient ischaemic attack
G65..13	Vertebro-basilar insufficiency
G650.00	Basilar artery syndrome
G650.11	Insufficiency - basilar artery
G651.00	Vertebral artery syndrome
G651000	Vertebro-basilar artery syndrome
G652.00	Subclavian steal syndrome
G653.00	Carotid artery syndrome hemispheric
G654.00	Multiple and bilateral precerebral artery syndromes
G656.00	Vertebrobasilar insufficiency
G657.00	Carotid territory transient ischaemic attack
G65y.00	Other transient cerebral ischaemia
G65z.00	Transient cerebral ischaemia NOS
G65z000	Impending cerebral ischaemia
G65z100	Intermittent cerebral ischaemia
G65zz00	Transient cerebral ischaemia NOS

NOS Not otherwise specified; [X] Cross referenced to specific ICD-10 codes (READ 2 relates to ICD-9)

b) Stroke

Read code	Description
G631.12	Thrombosis, carotid artery
G677300	Occlusion and stenosis of cerebellar arteries
G631.00	Carotid artery occlusion
G63y100	Cerebral infarction due to embolism of precerebral arteries
G60z.00	Subarachnoid haemorrhage NOS
G601.00	Subarachnoid haemorrhage from carotid siphon and bifurcation
G6W..00	Cerebral infarct due unspecified occlusion/stenosis precerebral arteries
G64z100	Wallenberg syndrome
G666.00	Pure sensory lacunar syndrome
Gyu6100	[X]Other subarachnoid haemorrhage
G63z.00	Precerebral artery occlusion NOS
G600.00	Ruptured berry aneurysm
G64..11	CVA - cerebral artery occlusion
G665.00	Pure motor lacunar syndrome

G6X..00	Cerebral infarction due/unspecified occlusion or stenosis/cerebral arteries
G676000	Cerebral infarct due cerebral venous thrombosis, nonpyogenic
G64z400	Infarction of basal ganglia
G614.00	Pontine haemorrhage
G64..00	Cerebral arterial occlusion
G61..11	CVA - cerebrovascular accident due to intracerebral haemorrhage
G613.00	Cerebellar haemorrhage
G64z.00	Cerebral infarction NOS
G605.00	Subarachnoid haemorrhage from basilar artery
G61X.00	Intracerebral haemorrhage in hemisphere, unspecified
G63y000	Cerebral infarct due to thrombosis of precerebral arteries
G611.00	Internal capsule haemorrhage
Gyu6G00	[X]Cerebral infarct due unspecified occlusion/stenosis precerebral arteries
G61z.00	Intracerebral haemorrhage NOS
G604.00	Subarachnoid haemorrhage from posterior communicating artery
Gyu6600	[X]Occlusion and stenosis of other cerebral arteries
G606.00	Subarachnoid haemorrhage from vertebral artery
G661.00	Anterior cerebral artery syndrome
G640000	Cerebral infarction due to thrombosis of cerebral arteries
G660.00	Middle cerebral artery syndrome
G671000	Acute cerebrovascular insufficiency NOS
G615.00	Bulbar haemorrhage
G60..00	Subarachnoid haemorrhage
Fyu5700	[X]Other vascular syndromes/brain in cerebrovascular diseases
G66..13	CVA - Cerebrovascular accident unspecified
Gyu6200	[X]Other intracerebral haemorrhage
G66..11	CVA unspecified
Gyu6300	[X]Cerebral infarction due/unspecified occlusion or stenosis/cerebral arteries
G612.00	Basal nucleus haemorrhage
G677000	Occlusion and stenosis of middle cerebral artery
G641.11	Cerebral embolus
G64..12	Infarction - cerebral
G64z200	Left sided cerebral infarction
Fyu5600	[X]Other lacunar syndromes
G631.11	Stenosis, carotid artery
G640.00	Cerebral thrombosis
G632.00	Vertebral artery occlusion
G663.00	Brain stem stroke syndrome
G66..00	Stroke and cerebrovascular accident unspecified
G677200	Occlusion and stenosis of posterior cerebral artery
G641000	Cerebral infarction due to embolism of cerebral arteries
Gyu6000	[X]Subarachnoid haemorrhage from other intracranial arteries
G618.00	Intracerebral haemorrhage, multiple localized
G617.00	Intracerebral haemorrhage, intraventricular
G62z.00	Intracranial haemorrhage NOS

G64z111	Lateral medullary syndrome
G60X.00	Subarachnoid haemorrhage from intracranial artery, unspecified
G610.00	Cortical haemorrhage
G603.00	Subarachnoid haemorrhage from anterior communicating artery
G62..00	Other and unspecified intracranial haemorrhage
G616.00	External capsule haemorrhage
Gyu6500	[X]Occlusion and stenosis of other precerebral arteries
G61X000	Left sided intracerebral haemorrhage, unspecified
Gyu6E00	[X]Subarachnoid haemorrhage from intracranial artery, unspecified
G64..13	Stroke due to cerebral arterial occlusion
G677100	Occlusion and stenosis of anterior cerebral artery
G602.00	Subarachnoid haemorrhage from middle cerebral artery
G662.00	Posterior cerebral artery syndrome
Gyu6400	[X]Other cerebral infarction
G66..12	Stroke unspecified
G641.00	Cerebral embolism
G667.00	Left sided CVA
G61X100	Right sided intracerebral haemorrhage, unspecified
G64z300	Right sided cerebral infarction
G64z000	Brainstem infarction
G64z.11	Brainstem infarction NOS
G668.00	Right sided CVA
G630.00	Basilar artery occlusion
G61..00	Intracerebral haemorrhage
Gyu6F00	[X]Intracerebral haemorrhage in hemisphere, unspecified
G64z.12	Cerebellar infarction
G61..12	Stroke due to intracerebral haemorrhage
G664.00	Cerebellar stroke syndrome

CVA cerebrovascular accident; NOS Not otherwise specified; [X] Cross referenced to specific ICD-10 codes (READ 2 relates to ICD-9)

Appendix 3: Read codes for comorbidities including diagnosis, history of and resolved codes.

Diagnosis	Read codes
Atrial fibrillation	G573.% (excluding G5731, G5736)
Asthma	H33..%, H3120, 173A.
Cancer	B0... - B32z., B34.. -B6z0. (excluding B677.), Byu.. - Byu41, Byu5. - ByuE0, K1323, K01w1
CHD	G3-G309, G30B-G330z (except G310), G33z-G3401, G342-G365X, G38-G3z, Gyu3% (except Gyu31)
CKD	1Z12. -1Z16, 1Z1B. – 1Z1L., K053. - K055.
COPD	H3..., H31..% (excluding H3101, H31y0, H3122), H32..%, H36.. - H3z.. (excluding H3y0., H3y1.), H5832
Dementia	Eu02.%, E00..%, Eu01.%, E02y1, E012.%, Eu00.%, E041., Eu041, F110. – F112., F116.
Depression	E0013, E0021, E112.%, E113.%, E118., E11y2, E11z2, E130., E135., E2003,

	E291., E2B., E2B1., Eu204, Eu251, Eu32.% (excluding Eu32A, Eu32B, Eu329), Eu33.%, Eu341, Eu412
Diabetes mellitus	C10., C109J, C109K, C10C., C10D., C10E.%, C10F.% (Excluding C10F8), C10G.%, C10H.%, C10M.%, C10N.%, PKyP.
Epilepsy	F25.% (excluding F2501, F2504, F2511, F2516, F256.%, F258. – F25A., F25y4, F25G., F25H.), F1321, SC200
Heart Failure	G58.%, G1yz1, 662f. – 662i., 585f., G5yy9
Hypertension	G2..., G20.%, G24.. - G2z.. (Excluding G24z1, G2400, G2410, G27..), Gyu2., Gyu20
Hypothyroidism	C03.%, C04.%
Learning disabilities	E3...%, Eu7.%, Eu814 – Eu817, Eu81z, 918e
Osteoporosis	N330.% (Excluding N3308, N3309), N3312, N3313, N3316, N3318 – N331B, N331H – N331M, NyuB0, NyuB1, NyuB8, N3314, N3315, N3746, NyuB2
PAD	G73., G73z.% (Excluding G73z1), Gyu74, G734., G73y.
Palliative care	1Z01., 2JE., 8B2a., 8BA2., 8Bae., 8BAP., 8BAS., 8BAT., 8BJ1., 8CM1.% (excluding 8CM15), 8CM4., 8CMb., 8CME., 8CMQ., 8CMW3, 8H6A., 8H7g., 8H7L., 8HH7., 8IEE., 9367, 9c0L0, 9c0M., 9c0N., 9c0P., 9EB5., 9G8., 9K9., 9Ng7., 9NgD., 9NNd., 9NNf0, ZV57C
Psychosis, schizophrenia, bipolar affective disease	E10.%, E110.%, E111.%, E1124, E1134, E114. – E117z, E11y.% (excluding E11y2), E11z., E11z0, E11zz, E12.%, E13.%, (excluding E135.), E2122, Eu2.%, Eu30.%, Eu31.%, Eu323, Eu328, Eu333, Eu32A, Eu329
Rheumatoid arthritis	N040.%, N041., N042.% (excluding N0420), N047., N04X., N04y0, N04y2, Nyu11, Nyu12, Nyu1G, Nyu10, G5yA., G5y8.

CHD: Coronary Heart Disease, CKD: Chronic Kidney Disease, COPD: Chronic Obstructive Pulmonary Disease, PAD: Peripheral Arterial Disease