

## Prevalence and treatment of atrial fibrillation in UK general practice from 2000 to 2016

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## Supplementary Appendix: Methods

### Data source

All participating practices contribute the same information/data fields to the THIN dataset. Patient demographics in THIN are similar to those of the UK population, although there are slightly fewer patients aged under 25 years and the most affluent Townsend deprivation quintile is slightly overrepresented. THIN is generalisable to the UK population. All prescriptions issued by participating practices are captured. Prevalence of major conditions (including AF) and death rates, adjusted for patient demographics, are close to national rates.<sup>1</sup>

### Definitions of variables

AF diagnosis was defined by the presence of a clinical (Read) code for atrial fibrillation or atrial flutter at any time prior to the census date, excluding patients with a more recent clinical code prior to the census date indicating that AF had resolved.

Current anticoagulant treatment was defined by a record of a prescription for any anticoagulant medication (warfarin, parenteral anticoagulants, other vitamin K antagonists, or novel oral anticoagulants (NOACs)) within 90 days prior to the census date, or a clinical code indicating the patient was receiving anticoagulant therapy within 365 days prior to the census date (to capture treatment managed by hospitals). Antiplatelet treatment was defined as a record of a prescription for an antiplatelet drug (aspirin/salicylates, dipyridamole, or clopidogrel) within 90 days prior to the census date or a clinical code indicating that the patient was taking over the counter aspirin within 365 days prior to the census date.

Contraindications to anticoagulants were defined in accordance with MHRA and NICE evidence.<sup>2,3</sup> Contraindications specific to anticoagulants other than warfarin, such as NOACs (e.g. liver disease), were not included, as these do not preclude treatment with warfarin. Short-term contraindications (within 72 hours of surgery or 48 hours postpartum) and cautions for anticoagulant use were not included. Contraindications were defined as: a clinically coded diagnosis within 2 years prior to the census date of haemorrhagic stroke, major bleeding (gastrointestinal, intracranial, intraocular, retroperitoneal), bleeding disorders (haemophilia, other haemorrhagic disorders, thrombocytopenia), peptic ulcer, oesophageal varices, aneurysm, or proliferative retinopathy; a record of allergy or adverse reaction to anticoagulants ever prior to the census date; a record of pregnancy in the 9 months prior to the census date; or severe hypertension with a mean (of up to the 3 most recent measures in the last 3 years prior to the census date) systolic blood pressure >200 mm Hg or diastolic blood pressure >120 mm Hg.

CHA<sub>2</sub>DS<sub>2</sub>-VASc scores were calculated by adding one point each for a history of congestive heart failure, hypertension, diabetes, vascular disease, age 65-74 years and female sex, and two points for age ≥75 years and history of stroke, transient ischaemic attack (TIA) or

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<sup>1</sup> Blak BT, Thompson M, Dattani H, Bourke A. Generalisability of The Health Improvement Network (THIN) database: demographics, chronic disease prevalence and mortality rates. *Inform Prim Care* 2011;19:251-5. doi: 10.14236/jhi.v19i4.820

<sup>2</sup> Medicines and Healthcare products Regulatory Agency. MHRA Public Assessment Report. Warfarin: changes to product safety information. London: MHRA 2009.

<sup>3</sup> National Institute for Health and Care Excellence. Clinical Knowledge Summaries. Anticoagulation – oral. Scenario: Warfarin. London: NICE 2015. Available at: <https://cks.nice.org.uk/anticoagulation-oral#!scenario:4> [Last accessed 11<sup>th</sup> Oct 2017.]

thromboembolism. CHADS<sub>2</sub> scores were calculated by adding one point each for a history of congestive heart failure, hypertension, age  $\geq 75$  and diabetes, and two points for a history of stroke or TIA. History of congestive heart failure, stroke, TIA, thromboembolism, vascular disease and diabetes were defined by a clinical code recorded ever prior to the census date, excluding diabetic patients with a later record indicating diabetes resolved; hypertension was defined as either a current (previous 90 days) prescription of antihypertensive drugs or the mean of the three most recent systolic blood pressures in the last 3 years  $\geq 160$  mm Hg.

## Missing data

The absence of a clinical code was taken to indicate that the diagnosis was absent, and the absence of a recorded prescription was taken to indicate that the medication was not prescribed. In describing baseline patient characteristics, a missing category was created for Townsend quintile, and the proportion with no record of ethnicity was described. All other data were complete.

## Analysis

Prevalence in each year was directly age-sex standardised using the 2016 age-sex distribution as the standard: for each year, age-sex specific prevalence was calculated, the rates were applied to the standard population to give expected numbers of patients in each age-sex group, and the sum of the expected numbers was divided by the standard population.

In primary analysis, low risk was defined as a CHA<sub>2</sub>DS<sub>2</sub>-VASc score of 0 in males or 1 in females (1 point for sex category only), moderate risk as a CHA<sub>2</sub>DS<sub>2</sub>-VASc score of 1 in males, and high risk as a CHA<sub>2</sub>DS<sub>2</sub>-VASc score of  $\geq 2$  (both sexes). In accordance with the definition of CHA<sub>2</sub>DS<sub>2</sub>-VASc score, females cannot be assigned to the moderate stroke risk category: 1 point is assigned for female sex, but in instances where this is the only risk factor, risk remains low; once an additional risk factor is present, the score increases to 2 (or more), risk becomes high and anticoagulation is recommended.<sup>4,5</sup>

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<sup>4</sup> National Institute for Health and Care Excellence. Atrial fibrillation: the management of atrial fibrillation. NICE clinical guideline 180. National Institute for Health and Care Excellence 2014.

<sup>5</sup> Camm AJ, Lip GYH, De Caterina R, Savelieva I, Atar D, Hohnloser SH, Hindricks G, Kirchhof P. ESC Guidelines. 2012 focused update of the ESC Guidelines for the management of atrial fibrillation. *European Heart Journal* 2012; 33: 2719-2747. doi: 10.1093/eurheartj/ehs253.

## Clinical (Read) code list

Read Code	Description
<b>Atrial fibrillation</b>	
14AN.00	H/O: atrial fibrillation
3272.00	ECG: atrial fibrillation
G573.00	Atrial fibrillation and flutter
G573000	Atrial fibrillation
G573200	Paroxysmal atrial fibrillation
G573300	Non-rheumatic atrial fibrillation
G573400	Permanent atrial fibrillation
G573500	Persistent atrial fibrillation
G573700	Chronic atrial fibrillation
G573z00	Atrial fibrillation and flutter NOS
<b>Atrial flutter</b>	
14AR.00	History of atrial flutter
3273.00	ECG: atrial flutter
G573100	Atrial flutter
G573600	Paroxysmal atrial flutter
G573800	Typical atrial flutter
G573900	Atypical atrial flutter
<b>AF resolved</b>	
212R.00	Atrial fibrillation resolved
<b>Anticoagulant therapy</b>	
88A5.00	Anticoagulant therapy
88A5000	Bridging anticoag therapy with low molecular weight heparin
8B2K.00	Anticoagulant prescribed by third party
8B61.00	Anticoagulant prophylaxis
8B61000	Warfarin anticoagulation prophylaxis
Z1Q2C00	Giving anticoagulant therapy
ZV1C000	[V]Personal hist/long -term (current) use of anticoagulants
8B61100	Novel oral anticoagulant prophylaxis
<b>Antiplatelet therapy</b>	
8B3T.00	Over the counter aspirin therapy
8B63.00	Salicylate prophylaxis
8B63.11	Aspirin prophylaxis - IHD
8B63.12	Aspirin prophylaxis
Z1Q2200	Over the counter aspirin therapy
8B6P.00	Clopidogrel prophylaxis
8B6W.00	Dipyridamole prophylaxis
<b>Heart failure</b>	
14A6.00	H/O: heart failure
14AM.00	H/O: Heart failure in last year
585f.00	Echocardiogram shows left ventricular systolic dysfunction
662f.00	New York Heart Association classification - class I
662g.00	New York Heart Association classification - class II
662h.00	New York Heart Association classification - class III

662i.00	New York Heart Association classification - class IV
G1yz100	Rheumatic left ventricular failure
G210100	Malignant hypertensive heart disease with CCF
G211100	Benign hypertensive heart disease with CCF
G21z100	Hypertensive heart disease NOS with CCF
G232.00	Hypertensive heart&renal dis wth (congestive) heart failure
G58..00	Heart failure
G58..11	Cardiac failure
G580.00	Congestive heart failure
G580.11	Congestive cardiac failure
G580.12	Right heart failure
G580.13	Right ventricular failure
G580.14	Biventricular failure
G580000	Acute congestive heart failure
G580100	Chronic congestive heart failure
G580200	Decompensated cardiac failure
G580300	Compensated cardiac failure
G580400	Congestive heart failure due to valvular disease
G581.00	Left ventricular failure
G581.11	Asthma - cardiac
G581.12	Pulmonary oedema - acute
G581.13	Impaired left ventricular function
G581000	Acute left ventricular failure
G582.00	Acute heart failure
G583.00	Heart failure with normal ejection fraction
G583.11	HFNEF - heart failure with normal ejection fraction
G583.12	Heart failure with preserved ejection fraction
G584.00	Right ventricular failure
G58z.00	Heart failure NOS
G58z.12	Cardiac failure NOS
G5yy900	Left ventricular systolic dysfunction

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**Diabetes**

1434.00	H/O: diabetes mellitus
14F4.00	H/O: Admission in last year for diabetes foot problem
C10..00	Diabetes mellitus
C100.00	Diabetes mellitus with no mention of complication
C100000	Diabetes mellitus, juvenile type, no mention of complication
C100011	Insulin dependent diabetes mellitus
C100100	Diabetes mellitus, adult onset, no mention of complication
C100111	Maturity onset diabetes
C100112	Non-insulin dependent diabetes mellitus
C100z00	Diabetes mellitus NOS with no mention of complication
C101.00	Diabetes mellitus with ketoacidosis
C101000	Diabetes mellitus, juvenile type, with ketoacidosis
C101100	Diabetes mellitus, adult onset, with ketoacidosis
C101y00	Other specified diabetes mellitus with ketoacidosis
C101z00	Diabetes mellitus NOS with ketoacidosis

C102.00 Diabetes mellitus with hyperosmolar coma  
 C102000 Diabetes mellitus, juvenile type, with hyperosmolar coma  
 C102100 Diabetes mellitus, adult onset, with hyperosmolar coma  
 C102z00 Diabetes mellitus NOS with hyperosmolar coma  
 C103.00 Diabetes mellitus with ketoacidotic coma  
 C103000 Diabetes mellitus, juvenile type, with ketoacidotic coma  
 C103100 Diabetes mellitus, adult onset, with ketoacidotic coma  
 C103y00 Other specified diabetes mellitus with coma  
 C103z00 Diabetes mellitus NOS with ketoacidotic coma  
 C104.00 Diabetes mellitus with renal manifestation  
 C104.11 Diabetic nephropathy  
 C104000 Diabetes mellitus, juvenile type, with renal manifestation  
 C104100 Diabetes mellitus, adult onset, with renal manifestation  
 C104y00 Other specified diabetes mellitus with renal complications  
 C104z00 Diabetes mellitus with nephropathy NOS  
 C105.00 Diabetes mellitus with ophthalmic manifestation  
 C105000 Diabetes mellitus, juvenile type, + ophthalmic manifestation  
 C105100 Diabetes mellitus, adult onset, + ophthalmic manifestation  
 C105y00 Other specified diabetes mellitus with ophthalmic complicatn  
 C105z00 Diabetes mellitus NOS with ophthalmic manifestation  
 C106.00 Diabetes mellitus with neurological manifestation  
 C106.11 Diabetic amyotrophy  
 C106.12 Diabetes mellitus with neuropathy  
 C106.13 Diabetes mellitus with polyneuropathy  
 C106000 Diabetes mellitus, juvenile, + neurological manifestation  
 C106100 Diabetes mellitus, adult onset, + neurological manifestation  
 C106y00 Other specified diabetes mellitus with neurological comps  
 C106z00 Diabetes mellitus NOS with neurological manifestation  
 C107.00 Diabetes mellitus with peripheral circulatory disorder  
 C107.11 Diabetes mellitus with gangrene  
 C107.12 Diabetes with gangrene  
 C107000 Diabetes mellitus, juvenile +peripheral circulatory disorder  
 C107100 Diabetes mellitus, adult, + peripheral circulatory disorder  
 C107200 Diabetes mellitus, adult with gangrene  
 C107300 IDDM with peripheral circulatory disorder  
 C107400 NIDDM with peripheral circulatory disorder  
 C107y00 Other specified diabetes mellitus with periph circ comps  
 C107z00 Diabetes mellitus NOS with peripheral circulatory disorder  
 C108.00 Insulin dependent diabetes mellitus  
 C108.11 IDDM-Insulin dependent diabetes mellitus  
 C108.12 Type 1 diabetes mellitus  
 C108.13 Type I diabetes mellitus  
 C108000 Insulin-dependent diabetes mellitus with renal complications  
 C108011 Type I diabetes mellitus with renal complications  
 C108012 Type 1 diabetes mellitus with renal complications  
 C108100 Insulin-dependent diabetes mellitus with ophthalmic comps  
 C108111 Type I diabetes mellitus with ophthalmic complications

C108112 Type 1 diabetes mellitus with ophthalmic complications  
C108200 Insulin-dependent diabetes mellitus with neurological comps  
C108211 Type I diabetes mellitus with neurological complications  
C108212 Type 1 diabetes mellitus with neurological complications  
C108300 Insulin dependent diabetes mellitus with multiple complicatn  
C108311 Type I diabetes mellitus with multiple complications  
C108312 Type 1 diabetes mellitus with multiple complications  
C108400 Unstable insulin dependent diabetes mellitus  
C108411 Unstable type I diabetes mellitus  
C108412 Unstable type 1 diabetes mellitus  
C108500 Insulin dependent diabetes mellitus with ulcer  
C108511 Type I diabetes mellitus with ulcer  
C108512 Type 1 diabetes mellitus with ulcer  
C108600 Insulin dependent diabetes mellitus with gangrene  
C108611 Type I diabetes mellitus with gangrene  
C108612 Type 1 diabetes mellitus with gangrene  
C108700 Insulin dependent diabetes mellitus with retinopathy  
C108711 Type I diabetes mellitus with retinopathy  
C108712 Type 1 diabetes mellitus with retinopathy  
C108800 Insulin dependent diabetes mellitus - poor control  
C108811 Type I diabetes mellitus - poor control  
C108812 Type 1 diabetes mellitus - poor control  
C108900 Insulin dependent diabetes maturity onset  
C108911 Type I diabetes mellitus maturity onset  
C108912 Type 1 diabetes mellitus maturity onset  
C108A00 Insulin-dependent diabetes without complication  
C108A11 Type I diabetes mellitus without complication  
C108A12 Type 1 diabetes mellitus without complication  
C108B00 Insulin dependent diabetes mellitus with mononeuropathy  
C108B11 Type I diabetes mellitus with mononeuropathy  
C108B12 Type 1 diabetes mellitus with mononeuropathy  
C108C00 Insulin dependent diabetes mellitus with polyneuropathy  
C108C11 Type I diabetes mellitus with polyneuropathy  
C108C12 Type 1 diabetes mellitus with polyneuropathy  
C108D00 Insulin dependent diabetes mellitus with nephropathy  
C108D11 Type I diabetes mellitus with nephropathy  
C108D12 Type 1 diabetes mellitus with nephropathy  
C108E00 Insulin dependent diabetes mellitus with hypoglycaemic coma  
C108E11 Type I diabetes mellitus with hypoglycaemic coma  
C108E12 Type 1 diabetes mellitus with hypoglycaemic coma  
C108F00 Insulin dependent diabetes mellitus with diabetic cataract  
C108F11 Type I diabetes mellitus with diabetic cataract  
C108F12 Type 1 diabetes mellitus with diabetic cataract  
C108G00 Insulin dependent diab mell with peripheral angiopathy  
C108G11 Type I diabetes mellitus with peripheral angiopathy  
C108G12 Type 1 diabetes mellitus with peripheral angiopathy  
C108H00 Insulin dependent diabetes mellitus with arthropathy

C108H11 Type I diabetes mellitus with arthropathy  
 C108H12 Type 1 diabetes mellitus with arthropathy  
 C108J00 Insulin dependent diab mell with neuropathic arthropathy  
 C108J11 Type I diabetes mellitus with neuropathic arthropathy  
 C108J12 Type 1 diabetes mellitus with neuropathic arthropathy  
 C108y00 Other specified diabetes mellitus with multiple comps  
 C108z00 Unspecified diabetes mellitus with multiple complications  
 C109.00 Non-insulin dependent diabetes mellitus  
 C109.11 NIDDM - Non-insulin dependent diabetes mellitus  
 C109.12 Type 2 diabetes mellitus  
 C109.13 Type II diabetes mellitus  
 C109000 Non-insulin-dependent diabetes mellitus with renal comps  
 C109011 Type II diabetes mellitus with renal complications  
 C109012 Type 2 diabetes mellitus with renal complications  
 C109100 Non-insulin-dependent diabetes mellitus with ophthalm comps  
 C109111 Type II diabetes mellitus with ophthalmic complications  
 C109112 Type 2 diabetes mellitus with ophthalmic complications  
 C109200 Non-insulin-dependent diabetes mellitus with neuro comps  
 C109211 Type II diabetes mellitus with neurological complications  
 C109212 Type 2 diabetes mellitus with neurological complications  
 C109300 Non-insulin-dependent diabetes mellitus with multiple comps  
 C109311 Type II diabetes mellitus with multiple complications  
 C109312 Type 2 diabetes mellitus with multiple complications  
 C109400 Non-insulin dependent diabetes mellitus with ulcer  
 C109411 Type II diabetes mellitus with ulcer  
 C109412 Type 2 diabetes mellitus with ulcer  
 C109500 Non-insulin dependent diabetes mellitus with gangrene  
 C109511 Type II diabetes mellitus with gangrene  
 C109512 Type 2 diabetes mellitus with gangrene  
 C109600 Non-insulin-dependent diabetes mellitus with retinopathy  
 C109611 Type II diabetes mellitus with retinopathy  
 C109612 Type 2 diabetes mellitus with retinopathy  
 C109700 Non-insulin dependent diabetes mellitus - poor control  
 C109711 Type II diabetes mellitus - poor control  
 C109712 Type 2 diabetes mellitus - poor control  
 C109900 Non-insulin-dependent diabetes mellitus without complication  
 C109911 Type II diabetes mellitus without complication  
 C109912 Type 2 diabetes mellitus without complication  
 C109A00 Non-insulin dependent diabetes mellitus with mononeuropathy  
 C109A11 Type II diabetes mellitus with mononeuropathy  
 C109A12 Type 2 diabetes mellitus with mononeuropathy  
 C109B00 Non-insulin dependent diabetes mellitus with polyneuropathy  
 C109B11 Type II diabetes mellitus with polyneuropathy  
 C109B12 Type 2 diabetes mellitus with polyneuropathy  
 C109C00 Non-insulin dependent diabetes mellitus with nephropathy  
 C109C11 Type II diabetes mellitus with nephropathy  
 C109C12 Type 2 diabetes mellitus with nephropathy



C109D00 Non-insulin dependent diabetes mellitus with hypoglyca coma  
 C109D11 Type II diabetes mellitus with hypoglycaemic coma  
 C109D12 Type 2 diabetes mellitus with hypoglycaemic coma  
 C109E00 Non-insulin depend diabetes mellitus with diabetic cataract  
 C109E11 Type II diabetes mellitus with diabetic cataract  
 C109E12 Type 2 diabetes mellitus with diabetic cataract  
 C109F00 Non-insulin-dependent d m with peripheral angiopath  
 C109F11 Type II diabetes mellitus with peripheral angiopathy  
 C109F12 Type 2 diabetes mellitus with peripheral angiopathy  
 C109G00 Non-insulin dependent diabetes mellitus with arthropathy  
 C109G11 Type II diabetes mellitus with arthropathy  
 C109G12 Type 2 diabetes mellitus with arthropathy  
 C109H00 Non-insulin dependent d m with neuropathic arthropathy  
 C109H11 Type II diabetes mellitus with neuropathic arthropathy  
 C109H12 Type 2 diabetes mellitus with neuropathic arthropathy  
 C109J00 Insulin treated Type 2 diabetes mellitus  
 C109J11 Insulin treated non-insulin dependent diabetes mellitus  
 C109J12 Insulin treated Type II diabetes mellitus  
 C109K00 Hyperosmolar non-ketotic state in type 2 diabetes mellitus  
 C10A.00 Malnutrition-related diabetes mellitus  
 C10A.11 Jamaica type diabetes  
 C10A000 Malnutrition-related diabetes mellitus with coma  
 C10A100 Malnutrition-related diabetes mellitus with ketoacidosis  
 C10A200 Malnutrition-related diabetes mellitus with renal complicatn  
 C10A300 Malnutrit-related diabetes mellitus wth ophthalmic complicat  
 C10A400 Malnutrition-related diabetes mellitus wth neuro complicatns  
 C10A500 Malnutritn-relat diabetes melitus wth periph circul complctn  
 C10A600 Malnutrition-related diabetes mellitus with multiple comps  
 C10A700 Malnutrition-related diabetes mellitus without complications  
 C10AW00 Malnutrit-related diabetes mellitus with unspec complics  
 C10AX00 Malnutrit-relat diabetes mellitus with other spec comps  
 C10B.00 Diabetes mellitus induced by steroids  
 C10B000 Steroid induced diabetes mellitus without complication  
 C10C.00 Diabetes mellitus autosomal dominant  
 C10C.11 Maturity onset diabetes in youth  
 C10C.12 Maturity onset diabetes in youth type 1  
 C10D.00 Diabetes mellitus autosomal dominant type 2  
 C10D.11 Maturity onset diabetes in youth type 2  
 C10E.00 Type 1 diabetes mellitus  
 C10E.11 Type I diabetes mellitus  
 C10E.12 Insulin dependent diabetes mellitus  
 C10E000 Type 1 diabetes mellitus with renal complications  
 C10E011 Type I diabetes mellitus with renal complications  
 C10E012 Insulin-dependent diabetes mellitus with renal complications  
 C10E100 Type 1 diabetes mellitus with ophthalmic complications  
 C10E111 Type I diabetes mellitus with ophthalmic complications  
 C10E112 Insulin-dependent diabetes mellitus with ophthalmic comps

C10E200 Type 1 diabetes mellitus with neurological complications  
 C10E211 Type I diabetes mellitus with neurological complications  
 C10E212 Insulin-dependent diabetes mellitus with neurological comps  
 C10E300 Type 1 diabetes mellitus with multiple complications  
 C10E311 Type I diabetes mellitus with multiple complications  
 C10E312 Insulin dependent diabetes mellitus with multiple complicat  
 C10E400 Unstable type 1 diabetes mellitus  
 C10E411 Unstable type I diabetes mellitus  
 C10E412 Unstable insulin dependent diabetes mellitus  
 C10E500 Type 1 diabetes mellitus with ulcer  
 C10E511 Type I diabetes mellitus with ulcer  
 C10E512 Insulin dependent diabetes mellitus with ulcer  
 C10E600 Type 1 diabetes mellitus with gangrene  
 C10E611 Type I diabetes mellitus with gangrene  
 C10E612 Insulin dependent diabetes mellitus with gangrene  
 C10E700 Type 1 diabetes mellitus with retinopathy  
 C10E711 Type I diabetes mellitus with retinopathy  
 C10E712 Insulin dependent diabetes mellitus with retinopathy  
 C10E800 Type 1 diabetes mellitus - poor control  
 C10E811 Type I diabetes mellitus - poor control  
 C10E812 Insulin dependent diabetes mellitus - poor control  
 C10E900 Type 1 diabetes mellitus maturity onset  
 C10E911 Type I diabetes mellitus maturity onset  
 C10E912 Insulin dependent diabetes maturity onset  
 C10EA00 Type 1 diabetes mellitus without complication  
 C10EA11 Type I diabetes mellitus without complication  
 C10EA12 Insulin-dependent diabetes without complication  
 C10EB00 Type 1 diabetes mellitus with mononeuropathy  
 C10EB11 Type I diabetes mellitus with mononeuropathy  
 C10EB12 Insulin dependent diabetes mellitus with mononeuropathy  
 C10EC00 Type 1 diabetes mellitus with polyneuropathy  
 C10EC11 Type I diabetes mellitus with polyneuropathy  
 C10EC12 Insulin dependent diabetes mellitus with polyneuropathy  
 C10ED00 Type 1 diabetes mellitus with nephropathy  
 C10ED11 Type I diabetes mellitus with nephropathy  
 C10ED12 Insulin dependent diabetes mellitus with nephropathy  
 C10EE00 Type 1 diabetes mellitus with hypoglycaemic coma  
 C10EE11 Type I diabetes mellitus with hypoglycaemic coma  
 C10EE12 Insulin dependent diabetes mellitus with hypoglycaemic coma  
 C10EF00 Type 1 diabetes mellitus with diabetic cataract  
 C10EF11 Type I diabetes mellitus with diabetic cataract  
 C10EF12 Insulin dependent diabetes mellitus with diabetic cataract  
 C10EG00 Type 1 diabetes mellitus with peripheral angiopathy  
 C10EG11 Type I diabetes mellitus with peripheral angiopathy  
 C10EG12 Insulin dependent diab mell with peripheral angiopathy  
 C10EH00 Type 1 diabetes mellitus with arthropathy  
 C10EH11 Type I diabetes mellitus with arthropathy

C10EH12 Insulin dependent diabetes mellitus with arthropathy  
C10EJ00 Type 1 diabetes mellitus with neuropathic arthropathy  
C10EJ11 Type I diabetes mellitus with neuropathic arthropathy  
C10EJ12 Insulin dependent diab mell with neuropathic arthropathy  
C10EK00 Type 1 diabetes mellitus with persistent proteinuria  
C10EK11 Type I diabetes mellitus with persistent proteinuria  
C10EL00 Type 1 diabetes mellitus with persistent microalbuminuria  
C10EL11 Type I diabetes mellitus with persistent microalbuminuria  
C10EM00 Type 1 diabetes mellitus with ketoacidosis  
C10EM11 Type I diabetes mellitus with ketoacidosis  
C10EN00 Type 1 diabetes mellitus with ketoacidotic coma  
C10EN11 Type I diabetes mellitus with ketoacidotic coma  
C10EP00 Type 1 diabetes mellitus with exudative maculopathy  
C10EP11 Type I diabetes mellitus with exudative maculopathy  
C10EQ00 Type 1 diabetes mellitus with gastroparesis  
C10EQ11 Type I diabetes mellitus with gastroparesis  
C10ER00 Latent autoimmune diabetes mellitus in adult  
C10F.00 Type 2 diabetes mellitus  
C10F.11 Type II diabetes mellitus  
C10F000 Type 2 diabetes mellitus with renal complications  
C10F011 Type II diabetes mellitus with renal complications  
C10F100 Type 2 diabetes mellitus with ophthalmic complications  
C10F111 Type II diabetes mellitus with ophthalmic complications  
C10F200 Type 2 diabetes mellitus with neurological complications  
C10F211 Type II diabetes mellitus with neurological complications  
C10F300 Type 2 diabetes mellitus with multiple complications  
C10F311 Type II diabetes mellitus with multiple complications  
C10F400 Type 2 diabetes mellitus with ulcer  
C10F411 Type II diabetes mellitus with ulcer  
C10F500 Type 2 diabetes mellitus with gangrene  
C10F511 Type II diabetes mellitus with gangrene  
C10F600 Type 2 diabetes mellitus with retinopathy  
C10F611 Type II diabetes mellitus with retinopathy  
C10F700 Type 2 diabetes mellitus - poor control  
C10F711 Type II diabetes mellitus - poor control  
C10F900 Type 2 diabetes mellitus without complication  
C10F911 Type II diabetes mellitus without complication  
C10FA00 Type 2 diabetes mellitus with mononeuropathy  
C10FA11 Type II diabetes mellitus with mononeuropathy  
C10FB00 Type 2 diabetes mellitus with polyneuropathy  
C10FB11 Type II diabetes mellitus with polyneuropathy  
C10FC00 Type 2 diabetes mellitus with nephropathy  
C10FC11 Type II diabetes mellitus with nephropathy  
C10FD00 Type 2 diabetes mellitus with hypoglycaemic coma  
C10FD11 Type II diabetes mellitus with hypoglycaemic coma  
C10FE00 Type 2 diabetes mellitus with diabetic cataract  
C10FE11 Type II diabetes mellitus with diabetic cataract

C10FF00	Type 2 diabetes mellitus with peripheral angiopathy
C10FF11	Type II diabetes mellitus with peripheral angiopathy
C10FG00	Type 2 diabetes mellitus with arthropathy
C10FG11	Type II diabetes mellitus with arthropathy
C10FH00	Type 2 diabetes mellitus with neuropathic arthropathy
C10FH11	Type II diabetes mellitus with neuropathic arthropathy
C10FJ00	Insulin treated Type 2 diabetes mellitus
C10FJ11	Insulin treated Type II diabetes mellitus
C10FK00	Hyperosmolar non-ketotic state in type 2 diabetes mellitus
C10FK11	Hyperosmolar non-ketotic state in type II diabetes mellitus
C10FL00	Type 2 diabetes mellitus with persistent proteinuria
C10FL11	Type II diabetes mellitus with persistent proteinuria
C10FM00	Type 2 diabetes mellitus with persistent microalbuminuria
C10FM11	Type II diabetes mellitus with persistent microalbuminuria
C10FN00	Type 2 diabetes mellitus with ketoacidosis
C10FN11	Type II diabetes mellitus with ketoacidosis
C10FP00	Type 2 diabetes mellitus with ketoacidotic coma
C10FP11	Type II diabetes mellitus with ketoacidotic coma
C10FQ00	Type 2 diabetes mellitus with exudative maculopathy
C10FQ11	Type II diabetes mellitus with exudative maculopathy
C10FR00	Type 2 diabetes mellitus with gastroparesis
C10FR11	Type II diabetes mellitus with gastroparesis
C10FS00	Maternally inherited diabetes mellitus
C10G.00	Secondary pancreatic diabetes mellitus
C10G000	Secondary pancreatic diabetes mellitus without complication
C10H.00	Diabetes mellitus induced by non-steroid drugs
C10H000	DM induced by non-steroid drugs without complication
C10L.00	Fibrocalculous pancreatopathy
C10L000	Fibrocalculous pancreatopathy without complication
C10M.00	Lipoatrophic diabetes mellitus
C10M000	Lipoatrophic diabetes mellitus without complication
C10N.00	Secondary diabetes mellitus
C10N000	Secondary diabetes mellitus without complication
C10N100	Cystic fibrosis related diabetes mellitus
C10y.00	Diabetes mellitus with other specified manifestation
C10y000	Diabetes mellitus, juvenile, + other specified manifestation
C10y100	Diabetes mellitus, adult, + other specified manifestation
C10yy00	Other specified diabetes mellitus with other spec comps
C10yz00	Diabetes mellitus NOS with other specified manifestation
C10z.00	Diabetes mellitus with unspecified complication
C10z000	Diabetes mellitus, juvenile type, + unspecified complication
C10z100	Diabetes mellitus, adult onset, + unspecified complication
C10zy00	Other specified diabetes mellitus with unspecified comps
C10zz00	Diabetes mellitus NOS with unspecified complication

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**Diabetes resolved**

2126300	Diabetes resolved
212H.00	Diabetes resolved

C10P.00	Diabetes mellitus in remission
C10P000	Type I diabetes mellitus in remission
C10P011	Type 1 diabetes mellitus in remission
C10P100	Type II diabetes mellitus in remission
C10P111	Type 2 diabetes mellitus in remission

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### **Stroke and TIA**

1477.00	H/O: cerebrovascular disease
14A7.00	H/O: CVA/stroke
14A7.11	H/O: CVA
14A7.12	H/O: stroke
14AF.00	H/O sub-arachnoid haemorrhage
14AK.00	H/O: Stroke in last year
1M4..00	Central post-stroke pain
G6...00	Cerebrovascular disease
G60..00	Subarachnoid haemorrhage
G600.00	Ruptured berry aneurysm
G601.00	Subarachnoid haemorrhage from carotid siphon and bifurcation
G602.00	Subarachnoid haemorrhage from middle cerebral artery
G603.00	Subarachnoid haemorrhage from anterior communicating artery
G604.00	Subarachnoid haemorrhage from posterior communicating artery
G605.00	Subarachnoid haemorrhage from basilar artery
G606.00	Subarachnoid haemorrhage from vertebral artery
G60X.00	Subarachnoid haemorrh from intracranial artery, unspecif
G60z.00	Subarachnoid haemorrhage NOS
G61..00	Intracerebral haemorrhage
G61..11	CVA - cerebrovascular accid due to intracerebral haemorrhage
G61..12	Stroke due to intracerebral haemorrhage
G610.00	Cortical haemorrhage
G611.00	Internal capsule haemorrhage
G612.00	Basal nucleus haemorrhage
G613.00	Cerebellar haemorrhage
G614.00	Pontine haemorrhage
G615.00	Bulbar haemorrhage
G616.00	External capsule haemorrhage
G618.00	Intracerebral haemorrhage, multiple localized
G619.00	Lobar cerebral haemorrhage
G61X.00	Intracerebral haemorrhage in hemisphere, unspecified
G61X000	Left sided intracerebral haemorrhage, unspecified
G61X100	Right sided intracerebral haemorrhage, unspecified
G61z.00	Intracerebral haemorrhage NOS
G62..00	Other and unspecified intracranial haemorrhage
G620.00	Extradural haemorrhage - nontraumatic
G621.00	Subdural haemorrhage - nontraumatic
G622.00	Subdural haematoma - nontraumatic
G623.00	Subdural haemorrhage NOS
G62z.00	Intracranial haemorrhage NOS
G63..00	Precerebral arterial occlusion

G63..11	Infarction - precerebral
G63..12	Stenosis of precerebral arteries
G630.00	Basilar artery occlusion
G631.00	Carotid artery occlusion
G631.11	Stenosis, carotid artery
G631.12	Thrombosis, carotid artery
G632.00	Vertebral artery occlusion
G633.00	Multiple and bilateral precerebral arterial occlusion
G634.00	Carotid artery stenosis
G63y.00	Other precerebral artery occlusion
G63y000	Cerebral infarct due to thrombosis of precerebral arteries
G63y100	Cerebral infarction due to embolism of precerebral arteries
G63z.00	Precerebral artery occlusion NOS
G64..00	Cerebral arterial occlusion
G64..11	CVA - cerebral artery occlusion
G64..12	Infarction - cerebral
G64..13	Stroke due to cerebral arterial occlusion
G640.00	Cerebral thrombosis
G640000	Cerebral infarction due to thrombosis of cerebral arteries
G641.00	Cerebral embolism
G641.11	Cerebral embolus
G641000	Cerebral infarction due to embolism of cerebral arteries
G64z.00	Cerebral infarction NOS
G64z.11	Brainstem infarction NOS
G64z.12	Cerebellar infarction
G64z000	Brainstem infarction
G64z100	Wallenberg syndrome
G64z111	Lateral medullary syndrome
G64z200	Left sided cerebral infarction
G64z300	Right sided cerebral infarction
G64z400	Infarction of basal ganglia
G66..00	Stroke and cerebrovascular accident unspecified
G66..11	CVA unspecified
G66..12	Stroke unspecified
G66..13	CVA - Cerebrovascular accident unspecified
G660.00	Middle cerebral artery syndrome
G661.00	Anterior cerebral artery syndrome
G662.00	Posterior cerebral artery syndrome
G663.00	Brain stem stroke syndrome
G664.00	Cerebellar stroke syndrome
G665.00	Pure motor lacunar syndrome
G666.00	Pure sensory lacunar syndrome
G667.00	Left sided CVA
G668.00	Right sided CVA
G67..00	Other cerebrovascular disease
G670.00	Cerebral atherosclerosis
G670.11	Precerebral atherosclerosis

G671.00 Generalised ischaemic cerebrovascular disease NOS  
G671000 Acute cerebrovascular insufficiency NOS  
G671100 Chronic cerebral ischaemia  
G671z00 Generalised ischaemic cerebrovascular disease NOS  
G672.00 Hypertensive encephalopathy  
G672.11 Hypertensive crisis  
G673.00 Cerebral aneurysm, nonruptured  
G673000 Dissection of cerebral arteries, nonruptured  
G673100 Carotico-cavernous sinus fistula  
G673200 Carotid artery dissection  
G673300 Vertebral artery dissection  
G674.00 Cerebral arteritis  
G674000 Cerebral amyloid angiopathy  
G675.00 Moyamoya disease  
G676.00 Nonpyogenic venous sinus thrombosis  
G676000 Cereb infarct due cerebral venous thrombosis, nonpyogenic  
G677.00 Occlusion/stenosis cerebral arts not result cerebral infarct  
G677000 Occlusion and stenosis of middle cerebral artery  
G677100 Occlusion and stenosis of anterior cerebral artery  
G677200 Occlusion and stenosis of posterior cerebral artery  
G677300 Occlusion and stenosis of cerebellar arteries  
G677400 Occlusion+stenosis of multiple and bilat cerebral arteries  
G678.00 Cereb autosom dominant arteriop subcort infarcts leukoenceph  
G679.00 Small vessel cerebrovascular disease  
G67A.00 Cerebral vein thrombosis  
G67B.00 Reversible cerebral vasoconstriction syndrome  
G67B.11 Call-Fleming syndrome  
G67y.00 Other cerebrovascular disease OS  
G67z.00 Other cerebrovascular disease NOS  
G68..00 Late effects of cerebrovascular disease  
G680.00 Sequelae of subarachnoid haemorrhage  
G681.00 Sequelae of intracerebral haemorrhage  
G682.00 Sequelae of other nontraumatic intracranial haemorrhage  
G683.00 Sequelae of cerebral infarction  
G68W.00 Sequelae/other + unspecified cerebrovascular diseases  
G68X.00 Sequelae of stroke,not specfd as h'morrhage or infarction  
G6W..00 Cereb infarct due unsp occlus/stenos precerebr arteries  
G6X..00 Cerebrl infarctn due/unspcf occlusn or sten/cerebrl artrs  
G6y..00 Other specified cerebrovascular disease  
Gyu6000 [X]Subarachnoid haemorrhage from other intracranial arteries  
Gyu6100 [X]Other subarachnoid haemorrhage  
Gyu6200 [X]Other intracerebral haemorrhage  
Gyu6300 [X]Cerebrl infarctn due/unspcf occlusn or sten/cerebrl artrs  
Gyu6400 [X]Other cerebral infarction  
Gyu6500 [X]Occlusion and stenosis of other precerebral arteries  
Gyu6600 [X]Occlusion and stenosis of other cerebral arteries  
Gyu6B00 [X]Sequelae of other nontraumatic intracranial haemorrhage

Gyu6C00	[X]Sequelae of stroke,not specfd as h'morrhage or infarction
Gyu6D00	[X]Sequelae/other + unspecified cerebrovascular diseases
Gyu6E00	[X]Subarachnoid haemorrh from intracranial artery, unspecif
Gyu6F00	[X]Intracerebral haemorrhage in hemisphere, unspecified
Gyu6G00	[X]Cereb infarct due unsp occlus/stenos precerebr arteries
ZLEP.00	Discharge from stroke serv
ZV12511	[V]Personal history of stroke
ZV12512	[V]Personal history of cerebrovascular accident (CVA)
14AB.00	H/O: TIA
Fyu5500	[X]Other transnt cerebral ischaemic attacks+related syndroms
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
ZV12D00	[V]Personal history of transient ischaemic attack

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### **Thromboembolism**

14A8.00	H/O: thrombo-embolism
14A8.11	H/O: embolism
14A8.12	H/O: thrombosis
14A8100	H/O: Deep Vein Thrombosis
14AC.00	H/O: pulmonary embolus
F05..00	Phlebitis and thrombophlebitis of intracranial sinuses
F050.00	Embolism of central nervous system venous sinus
F050.11	Embolus of central nervous system venous sinus
F050000	Embolism cavernous sinus
F050100	Embolism superior longitudinal sinus
F050200	Embolism lateral sinus
F050300	Embolism transverse sinus
F050z00	Embolism central nervous system venous sinus NOS
F051.00	Thrombosis of central nervous system venous sinuses
F051000	Thrombosis cavernous sinus
F051100	Thrombosis of superior longitudinal sinus
F051200	Thrombosis lateral sinus



F051300	Thrombosis transverse sinus
F051z00	Thrombosis of central nervous system venous sinus NOS
F053.00	Thrombophlebitis of central nervous system venous sinuses
F053000	Thrombophlebitis of cavernous sinus
F053100	Thrombophlebitis of superior longitudinal venous sinus
F053200	Thrombophlebitis lateral venous sinus
F053z00	Thrombophlebitis of central nervous system venous sinus NOS
F05z.00	Phlebitis or thrombophlebitis of CNS venous sinus NOS
F161100	Myelopathy due to arterial thrombosis of spinal cord
F161500	Anterior spinal artery thrombosis
G30..12	Coronary thrombosis
G30..16	Thrombosis - coronary
G30A.00	Mural thrombosis
G312.00	Coronary thrombosis not resulting in myocardial infarction
G366.00	Thrombosis atrium,auric append&vent/curr comp foll acute MI
G401.00	Pulmonary embolism
G401.12	Pulmonary embolus
G401100	Recurrent pulmonary embolism
G41y100	Thromboembolic pulmonary hypertension
G5yy600	Atrial thrombosis
G5yy700	Left ventricular thrombosis
G5yy800	Right ventricular thrombosis
G631.12	Thrombosis, carotid artery
G63y000	Cerebral infarct due to thrombosis of precerebral arteries
G63y100	Cerebral infarction due to embolism of precerebral arteries
G640.00	Cerebral thrombosis
G640000	Cerebral infarction due to thrombosis of cerebral arteries
G641.00	Cerebral embolism
G641.11	Cerebral embolus
G641000	Cerebral infarction due to embolism of cerebral arteries
G676.00	Nonpyogenic venous sinus thrombosis
G676000	Cereb infarct due cerebral venous thrombosis, nonpyogenic
G67A.00	Cerebral vein thrombosis
G731.00	Thromboangiitis obliterans
G731z00	Thromboangiitis obliterans NOS
G74..00	Arterial embolism and thrombosis
G74..11	Arterial embolus and thrombosis
G74..12	Thrombosis - arterial
G74..13	Arterial embolic and thrombotic occlusion
G740.00	Embolism and thrombosis of the abdominal aorta
G740.14	Saddle embolus
G741.00	Embolism and thrombosis of the thoracic aorta
G742.00	Embolism and thrombosis of an arm or leg artery
G742000	Embolism and thrombosis of the brachial artery
G742100	Embolism and thrombosis of the radial artery
G742200	Embolism and thrombosis of the ulnar artery
G742300	Embolism and thrombosis of an arm artery NOS

G742400 Embolism and thrombosis of the femoral artery  
 G742500 Embolism and thrombosis of the popliteal artery  
 G742600 Embolism and thrombosis of the anterior tibial artery  
 G742700 Embolism and thrombosis of the dorsalis pedis artery  
 G742800 Embolism and thrombosis of the posterior tibial artery  
 G742900 Embolism and thrombosis of a leg artery NOS  
 G742A00 Post radiological embolism of upper limb artery  
 G742B00 Post radiological embolism of lower limb artery  
 G742z00 Peripheral arterial embolism and thrombosis NOS  
 G743.00 Embolism and thrombosis of other and unspec parts aorta  
 G74y.00 Embolism and thrombosis of other specified artery  
 G74y000 Embolism and/or thrombosis of the common iliac artery  
 G74y100 Embolism and/or thrombosis of the internal iliac artery  
 G74y200 Embolism and/or thrombosis of the external iliac artery  
 G74y300 Embolism and thrombosis of the iliac artery unspecified  
 G74y500 Embolism and thrombosis of the subclavian artery  
 G74y600 Embolism and thrombosis of the splenic artery  
 G74y700 Embolism and thrombosis of the axillary artery  
 G74y800 Embolism and thrombosis of the coeliac artery  
 G74y900 Embolism and thrombosis of the hepatic artery  
 G74yz00 Embolism and thrombosis of other arteries NOS  
 G74z.00 Arterial embolism and thrombosis NOS  
 G801.00 Deep vein phlebitis and thrombophlebitis of the leg  
 G801.11 Deep vein thrombosis  
 G801.12 Deep vein thrombosis, leg  
 G801.13 DVT - Deep vein thrombosis  
 G801600 Thrombophlebitis of the femoral vein  
 G801700 Thrombophlebitis of the popliteal vein  
 G801800 Thrombophlebitis of the anterior tibial vein  
 G801900 Thrombophlebitis of the dorsalis pedis vein  
 G801A00 Thrombophlebitis of the posterior tibial vein  
 G801B00 Deep vein thrombophlebitis of the leg unspecified  
 G801C00 Deep vein thrombosis of leg related to air travel  
 G801D00 Deep vein thrombosis of lower limb  
 G801E00 Deep vein thrombosis of leg related to intravenous drug use  
 G801F00 Deep vein thrombosis of peroneal vein  
 G801G00 Recurrent deep vein thrombosis  
 G801z00 Deep vein phlebitis and thrombophlebitis of the leg NOS  
 G802000 Thrombosis of vein of leg  
 G80y.11 Phlebitis and/or thrombophlebitis of iliac vein  
 G80y400 Thrombophlebitis of the common iliac vein  
 G80y500 Thrombophlebitis of the internal iliac vein  
 G80y600 Thrombophlebitis of the external iliac vein  
 G80y700 Thrombophlebitis of the iliac vein unspecified  
 G80y800 Phlebitis and thrombophlebitis of the iliac vein NOS  
 G81..00 Portal vein thrombosis  
 G82..00 Other venous embolism and thrombosis

G820.00	Budd - Chiari syndrome (hepatic vein thrombosis)
G820.11	Hepatic vein thrombosis
G822.00	Embolism and thrombosis of the vena cava
G822000	Thrombosis inferior vena cava
G823.00	Embolism and thrombosis of the renal vein
G824.00	Axillary vein thrombosis
G825.00	Thrombosis of subclavian vein
G826.00	Thrombosis of internal jugular vein
G827.00	Thrombosis of external jugular vein
G82y.00	Other embolism and thrombosis
G82z.00	Embolism and thrombosis NOS
G82zz00	Embolism and thrombosis NOS
G8y4.00	Postthrombotic syndrome
Gyu7500	[X]Embolism and thrombosis of other arteries
Gyu8000	[X]Phlebitis+thrombophlebitis/oth deep vessls/low extremities
Gyu8200	[X]Embolism and thrombosis of other specified veins
ZV12800	[V] Personal history deep vein thrombosis
ZV12811	[V] Personal history DVT- deep vein thrombosis
ZV12900	[V] Personal history of pulmonary embolism
SP07000	Internal prosthetic device causing embolism
SP07D00	Embolism in vascular graft
SP12200	Post operative deep vein thrombosis
SP32100	Thromboembolism after infusion
Gy2..00	Thrombosis of dialysis vascular access
Gy20.00	Thrombosis of dialysis arteriovenous graft
Gy21.00	Thrombosis of dialysis arteriovenous fistula
Gy22.00	Thrombosis of dialysis arteriovenous shunt
SP07011	Embolus due to internal prosthetic device
SP07M00	Thrombosis of renal artery bypass graft
SP07N00	Arteriovenous fistula thrombosis
SP08a00	Thrombosis of vein of transplanted kidney
SP08Z00	Thrombosis of artery of transplanted kidney
SP12100	Thrombophlebitis as a complication of care
SP32200	Thrombophlebitis after infusion
SyuK611	[X] Embolism from prosthetic heart valve

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#### **Vascular Disease**

G70z.00	Arteriosclerotic vascular disease NOS
G73..00	Other peripheral vascular disease
G73..11	Peripheral ischaemic vascular disease
G734.00	Peripheral arterial disease
G73y.00	Other specified peripheral vascular disease
G73yz00	Other specified peripheral vascular disease NOS
G73z.00	Peripheral vascular disease NOS
G73zz00	Peripheral vascular disease NOS
Gyu7400	[X]Other specified peripheral vascular diseases
K138600	Renal vascular disease
14NB.00	H/O: Peripheral vascular disease procedure

Gyu3100 [X]Other current complicatns following acute myocard infarct  
 Gyu3400 [X]Acute transmural myocardial infarction of unspecif site  
 Gyu3500 [X]Subsequent myocardial infarction of other sites  
 Gyu3600 [X]Subsequent myocardial infarction of unspecified site  
 14A3.00 H/O: myocardial infarct <60  
 14A4.00 H/O: myocardial infarct >60  
 14AH.00 H/O: Myocardial infarction in last year  
 14AT.00 History of myocardial infarction  
 323..00 ECG: myocardial infarction  
 3232.00 ECG: old myocardial infarction  
 323Z.00 ECG: myocardial infarct NOS  
 889A.00 Diab mellit insulin-glucose infus acute myocardial infarct  
 G30..00 Acute myocardial infarction  
 G30..13 Cardiac rupture following myocardial infarction (MI)  
 G30..15 MI - acute myocardial infarction  
 G30..17 Silent myocardial infarction  
 G301.00 Other specified anterior myocardial infarction  
 G301z00 Anterior myocardial infarction NOS  
 G304.00 Posterior myocardial infarction NOS  
 G305.00 Lateral myocardial infarction NOS  
 G306.00 True posterior myocardial infarction  
 G307100 Acute non-ST segment elevation myocardial infarction  
 G308.00 Inferior myocardial infarction NOS  
 G30B.00 Acute posterolateral myocardial infarction  
 G30X.00 Acute transmural myocardial infarction of unspecif site  
 G30X000 Acute ST segment elevation myocardial infarction  
 G30y.00 Other acute myocardial infarction  
 G30yz00 Other acute myocardial infarction NOS  
 G30z.00 Acute myocardial infarction NOS  
 G310.00 Postmyocardial infarction syndrome  
 G32..00 Old myocardial infarction  
 G32..11 Healed myocardial infarction  
 G32..12 Personal history of myocardial infarction  
 G35..00 Subsequent myocardial infarction  
 G350.00 Subsequent myocardial infarction of anterior wall  
 G351.00 Subsequent myocardial infarction of inferior wall  
 G353.00 Subsequent myocardial infarction of other sites  
 G35X.00 Subsequent myocardial infarction of unspecified site  
 G36..00 Certain current complication follow acute myocardial infarct  
 G360.00 Haemopericardium/current comp folow acut myocard infarct  
 G361.00 Atrial septal defect/curr comp folow acut myocardal infarct  
 G362.00 Ventric septal defect/curr comp fol acut myocardal infarctn  
 G364.00 Ruptur chordae tendinae/curr comp fol acute myocard infarct  
 G365.00 Rupture papillary muscle/curr comp fol acute myocard infarct  
 G38..00 Postoperative myocardial infarction  
 G380.00 Postoperative transmural myocardial infarction anterior wall  
 G381.00 Postoperative transmural myocardial infarction inferior wall

G382.00	Postoperative transmural myocardial infarction other sites
G383.00	Postoperative transmural myocardial infarction unspec site
G384.00	Postoperative subendocardial myocardial infarction
G38z.00	Postoperative myocardial infarction, unspecified

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**Adverse reaction to anticoagulants**

14LP.00	H/O: warfarin allergy
TJ42.00	Adverse reaction to anticoagulants
TJ42000	Adverse reaction to heparin
TJ42100	Adverse reaction to warfarin sodium
TJ42200	Adverse reaction to nicoumalone
TJ42300	Adverse reaction to phenindione
TJ42z00	Adverse reaction to anticoagulants NOS
U604200	[X]Anticoagulant causing adverse effects in therapeutic use
U604211	[X] Adverse reaction to anticoagulants
U604212	[X] Adverse reaction to heparin
U604213	[X] Adverse reaction to warfarin sodium
U604214	[X] Adverse reaction to acenocoumarol
U604215	[X] Adverse reaction to phenindione
U604216	[X] Adverse reaction to anticoagulants NOS
ZV14A00	[V]Personal history of warfarin allergy

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**Ulcer**

7612111	Balfour excision of gastric ulcer
7612500	Resection of gastric ulcer by cautery
761D500	Endoscopic injection haemostasis of duodenal ulcer
761D600	Endoscopic injection haemostasis of gastric ulcer
761J.00	Operations on gastric ulcer
761J.11	Stomach ulcer operations
761J000	Closure of perforated gastric ulcer
761J100	Closure of gastric ulcer NEC
761J111	Suture of ulcer of stomach NEC
761Jy00	Other specified operation on gastric ulcer
761Jz00	Operation on gastric ulcer NOS
7627.00	Operations on duodenal ulcer
7627000	Closure of perforated duodenal ulcer
7627100	Suture of duodenal ulcer not elsewhere classified
7627200	Oversew of blood vessel of duodenal ulcer
7627y00	Other specified operation on duodenal ulcer
7627z00	Operation on duodenal ulcer NOS
J11..00	Gastric ulcer - (GU)
J11..11	Prepyloric ulcer
J11..12	Pyloric ulcer
J110.00	Acute gastric ulcer
J110000	Acute gastric ulcer without mention of complication
J110100	Acute gastric ulcer with haemorrhage
J110111	Bleeding acute gastric ulcer
J110200	Acute gastric ulcer with perforation

J110300 Acute gastric ulcer with haemorrhage and perforation  
 J110400 Acute gastric ulcer with obstruction  
 J110y00 Acute gastric ulcer unspecified  
 J110z00 Acute gastric ulcer NOS  
 J111.00 Chronic gastric ulcer  
 J111000 Chronic gastric ulcer without mention of complication  
 J111100 Chronic gastric ulcer with haemorrhage  
 J111111 Bleeding chronic gastric ulcer  
 J111200 Chronic gastric ulcer with perforation  
 J111211 Perforated chronic gastric ulcer  
 J111300 Chronic gastric ulcer with haemorrhage and perforation  
 J111400 Chronic gastric ulcer with obstruction  
 J111y00 Chronic gastric ulcer unspecified  
 J111z00 Chronic gastric ulcer NOS  
 J112.00 Anti-platelet induced gastric ulcer  
 J112z00 Anti-platelet induced gastric ulcer NOS  
 J113.00 Non steroidal anti inflammatory drug induced gastric ulcer  
 J113z00 Non steroidal anti inflammatory drug induced gastric ulc NOS  
 J11y.00 Unspecified gastric ulcer  
 J11y000 Unspecified gastric ulcer without mention of complication  
 J11y100 Unspecified gastric ulcer with haemorrhage  
 J11y200 Unspecified gastric ulcer with perforation  
 J11y300 Unspecified gastric ulcer with haemorrhage and perforation  
 J11y400 Unspecified gastric ulcer with obstruction  
 J11yy00 Unspec gastric ulcer; unspec haemorrhage and/or perforation  
 J11yz00 Unspecified gastric ulcer NOS  
 J11z.00 Gastric ulcer NOS  
 J11z.12 Multiple gastric ulcers  
 J12..00 Duodenal ulcer - (DU)  
 J120.00 Acute duodenal ulcer  
 J120000 Acute duodenal ulcer without mention of complication  
 J120100 Acute duodenal ulcer with haemorrhage  
 J120200 Acute duodenal ulcer with perforation  
 J120300 Acute duodenal ulcer with haemorrhage and perforation  
 J120400 Acute duodenal ulcer with obstruction  
 J120y00 Acute duodenal ulcer unspecified  
 J120z00 Acute duodenal ulcer NOS  
 J121.00 Chronic duodenal ulcer  
 J121000 Chronic duodenal ulcer without mention of complication  
 J121100 Chronic duodenal ulcer with haemorrhage  
 J121111 Bleeding chronic duodenal ulcer  
 J121200 Chronic duodenal ulcer with perforation  
 J121211 Perforated chronic duodenal ulcer  
 J121300 Chronic duodenal ulcer with haemorrhage and perforation  
 J121400 Chronic duodenal ulcer with obstruction  
 J121y00 Chronic duodenal ulcer unspecified  
 J121z00 Chronic duodenal ulcer NOS

J122.00 Duodenal ulcer disease  
 J124.00 Recurrent duodenal ulcer  
 J125.00 Anti-platelet induced duodenal ulcer  
 J125z00 Anti-platelet induced duodenal ulcer NOS  
 J126.00 Non steroidal anti inflammatory drug induced duodenal ulcer  
 J126z00 Non steroidal anti inflammatory drug induced duoden ulc NOS  
 J12y.00 Unspecified duodenal ulcer  
 J12y000 Unspecified duodenal ulcer without mention of complication  
 J12y100 Unspecified duodenal ulcer with haemorrhage  
 J12y200 Unspecified duodenal ulcer with perforation  
 J12y300 Unspecified duodenal ulcer with haemorrhage and perforation  
 J12y400 Unspecified duodenal ulcer with obstruction  
 J12yy00 Unspec duodenal ulcer; unspec haemorrhage and/or perforation  
 J12yz00 Unspecified duodenal ulcer NOS  
 J12z.00 Duodenal ulcer NOS  
 J13..00 Peptic ulcer - (PU) site unspecified  
 J13..11 Stress ulcer NOS  
 J130.00 Acute peptic ulcer  
 J130000 Acute peptic ulcer without mention of complication  
 J130100 Acute peptic ulcer with haemorrhage  
 J130200 Acute peptic ulcer with perforation  
 J130300 Acute peptic ulcer with haemorrhage and perforation  
 J130400 Acute peptic ulcer with obstruction  
 J130y00 Acute peptic ulcer unspecified  
 J130z00 Acute peptic ulcer NOS  
 J131.00 Chronic peptic ulcer  
 J131000 Chronic peptic ulcer without mention of complication  
 J131100 Chronic peptic ulcer with haemorrhage  
 J131200 Chronic peptic ulcer with perforation  
 J131300 Chronic peptic ulcer with haemorrhage and perforation  
 J131400 Chronic peptic ulcer with obstruction  
 J131y00 Chronic peptic ulcer unspecified  
 J131z00 Chronic peptic ulcer NOS  
 J13y.00 Unspecified peptic ulcer  
 J13y000 Unspecified peptic ulcer without mention of complication  
 J13y100 Unspecified peptic ulcer with haemorrhage  
 J13y200 Unspecified peptic ulcer with perforation  
 J13y300 Unspecified peptic ulcer with haemorrhage and perforation  
 J13y400 Unspecified peptic ulcer with obstruction  
 J13yy00 Unspec peptic ulcer; unspec haemorrhage and/or perforation  
 J13yz00 Unspecified peptic ulcer NOS  
 J13z.00 Peptic ulcer NOS  
 J14..00 Gastrojejunal ulcer (GJU)  
 J14..11 Anastomotic ulcer  
 J14..12 Gastrocolic ulcer  
 J14..13 Jejunal ulcer  
 J14..14 Marginal ulcer

J14..15	Stomal ulcer
J140.00	Acute gastrojejunal ulcer
J140000	Acute gastrojejunal ulcer without mention of complication
J140100	Acute gastrojejunal ulcer with haemorrhage
J140200	Acute gastrojejunal ulcer with perforation
J140300	Acute gastrojejunal ulcer with haemorrhage and perforation
J140400	Acute gastrojejunal ulcer with obstruction
J140y00	Acute gastrojejunal ulcer unspecified
J140z00	Acute gastrojejunal ulcer NOS
J141.00	Chronic gastrojejunal ulcer
J141000	Chronic gastrojejunal ulcer without mention of complication
J141100	Chronic gastrojejunal ulcer with haemorrhage
J141200	Chronic gastrojejunal ulcer with perforation
J141300	Chronic gastrojejunal ulcer with haemorrhage and perforation
J141400	Chronic gastrojejunal ulcer with obstruction
J141y00	Chronic gastrojejunal ulcer unspecified
J141z00	Chronic gastrojejunal ulcer NOS
J14y.00	Unspecified gastrojejunal ulcer
J14y000	Unspecified gastrojejunal ulcer without mention complication
J14y100	Unspecified gastrojejunal ulcer with haemorrhage
J14y200	Unspecified gastrojejunal ulcer with perforation
J14y300	Unspec gastrojejunal ulcer with haemorrhage and perforation
J14y400	Unspecified gastrojejunal ulcer with obstruction
J14yy00	Unspec gastrojejunal ulcer; unspec haemorrhage/perforation
J14yz00	Unspecified gastrojejunal ulcer NOS
J14z.00	Gastrojejunal ulcer NOS

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### **Oesophageal varices**

7609.00	Open operations on oesophageal varices
7609000	Disconnection of azygous vein
7609100	Transection of oesophagus using staple gun
7609200	Transection of oesophagus NEC
7609300	Local ligation of oesophageal varices
7609400	Open injection sclerotherapy to oesophageal varices
7609y00	Other specified open operation on oesophageal varices
7609z00	Open operation on oesophageal varices NOS
760C300	Fibreoptic endoscopic injection sclerotherapy to oesophageal varices
760C500	Fibreoptic endoscopic banding of oesophageal varices
760F300	Rigid oesophagoscopy injection sclerotherapy oesoph varices
760F400	Rigid oesophagoscopy banding of oesophageal varices
G85..11	Oesophageal varices
G850.00	Oesophageal varices with bleeding
G851.00	Oesophageal varices without bleeding
G852.00	Oesophageal varices in diseases EC
G852000	Oesophageal varices with bleeding in diseases EC
G852100	Oesophageal varices without bleeding in diseases EC
G852200	Oesophageal varices in cirrhosis of the liver
G852300	Oesophageal varices in alcoholic cirrhosis of the liver



G852z00 Oesophageal varices in diseases EC NOS  
G858.00 Oesophageal varices NOS  
Gyu9400 [X]Oesophageal varices in diseases classified elsewhere

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**Haemorrhagic stroke**

G60..00 Subarachnoid haemorrhage  
G600.00 Ruptured berry aneurysm  
G601.00 Subarachnoid haemorrhage from carotid siphon and bifurcation  
G602.00 Subarachnoid haemorrhage from middle cerebral artery  
G603.00 Subarachnoid haemorrhage from anterior communicating artery  
G604.00 Subarachnoid haemorrhage from posterior communicating artery  
G605.00 Subarachnoid haemorrhage from basilar artery  
G606.00 Subarachnoid haemorrhage from vertebral artery  
G60X.00 Subarachnoid haemorrh from intracranial artery, unspecif  
G60z.00 Subarachnoid haemorrhage NOS  
G61..00 Intracerebral haemorrhage  
G61..11 CVA - cerebrovascular accid due to intracerebral haemorrhage  
G61..12 Stroke due to intracerebral haemorrhage  
G610.00 Cortical haemorrhage  
G611.00 Internal capsule haemorrhage  
G612.00 Basal nucleus haemorrhage  
G613.00 Cerebellar haemorrhage  
G614.00 Pontine haemorrhage  
G615.00 Bulbar haemorrhage  
G616.00 External capsule haemorrhage  
G618.00 Intracerebral haemorrhage, multiple localized  
G619.00 Lobar cerebral haemorrhage  
G61X.00 Intracerebral haemorrhage in hemisphere, unspecified  
G61X000 Left sided intracerebral haemorrhage, unspecified  
G61X100 Right sided intracerebral haemorrhage, unspecified  
G61z.00 Intracerebral haemorrhage NOS  
G62..00 Other and unspecified intracranial haemorrhage  
G620.00 Extradural haemorrhage - nontraumatic  
G621.00 Subdural haemorrhage - nontraumatic  
G622.00 Subdural haematoma - nontraumatic  
G623.00 Subdural haemorrhage NOS  
G62z.00 Intracranial haemorrhage NOS  
G680.00 Sequelae of subarachnoid haemorrhage  
G681.00 Sequelae of intracerebral haemorrhage  
G682.00 Sequelae of other nontraumatic intracranial haemorrhage  
Gyu6000 [X]Subarachnoid haemorrhage from other intracranial arteries  
Gyu6100 [X]Other subarachnoid haemorrhage  
Gyu6200 [X]Other intracerebral haemorrhage  
Gyu6B00 [X]Sequelae of other nontraumatic intracranial haemorrhage  
Gyu6E00 [X]Subarachnoid haemorrh from intracranial artery, unspecif  
Gyu6F00 [X]Intracerebral haemorrhage in hemisphere, unspecified

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**Major bleed/bleeding disorder**

D3...00	Clotting and bleeding disorders
D300.00	Haemophilia-A (factor VIII deficiency)
D300.11	Antihaemophilic globulin deficiency
D300.12	Haemophilia A
D301.00	Haemophilia-B (factor IX deficiency)
D301.11	Christmas disease
D301.12	Haemophilia B
D302.00	Haemophilia-C (factor XI deficiency)
D302.11	Haemophilia C
D302.12	Rosenthal's disease
D30..11	Bleeding disorders
D305.00	Haemorrhagic disorder due to circulating anticoagulants
D305000	Haemorrhagic disorder due to antithrombinaemia
D305100	Haemorrhagic disorder due to hyperheparinaemia
D305200	Haemorrhagic disorder due to increase in anti-8a
D305300	Haemorrhagic disorder due to increase in anti-9a
D305400	Haemorrhagic disorder due to increase in anti-10a
D305500	Haemorrhagic disorder due to increase in anti-11a
D31..00	Purpura and other haemorrhagic conditions
D311000	Hereditary haemorrhagic thrombasthenia
D313.00	Primary thrombocytopenia
D313.11	Evan's syndrome
D313.12	Idiopathic thrombocytopenic purpura
D313.13	Idiopathic purpura
D313.14	Megakaryocytic hypoplasia
D313.15	Thrombocytopenic purpura
D313000	Idiopathic thrombocytopenic purpura
D313011	Idiopathic purpura
D313012	ITP - idiopathic thrombocytopenic purpura
D313111	Hereditary thrombocytopenia NEC
D313200	Thrombocytopenic purpura with absent radius
D313211	TAR syndrome
D313300	[X]Essential thrombocytopenia NOS
D313y00	Other specified primary thrombocytopenia
D313z00	Primary thrombocytopenia NOS
D313z11	Essential thrombocytopenia NOS
D315.00	Thrombocytopenia NOS
D31X.00	Haemorrhagic condition, unspecified
D31y.00	Other specified haemorrhagic conditions
D31yz00	Other specified haemorrhagic condition NOS
D31z.00	Haemorrhagic condition NOS
D3y..00	Other specified disorders of clotting or bleeding
D3z..00	Clotting or bleeding disorder NOS
Dyu3.00	[X]Coagul defects, purpura & other haemorrhagic conditions
Dyu3300	[X]Other specified haemorrhagic conditions
Dyu3400	[X]Haemorrhagic condition, unspecified
F404500	Intra-ocular haemorrhage

F424300	Retinal pigment epithelium haemorrhagic detachment
F42y.11	Haemorrhage - retinal
F42y000	Preretinal haemorrhage
F42y100	Superficial retinal haemorrhage
F42y300	Deep retinal haemorrhage
F42y400	Subretinal haemorrhage
F42y500	Retinal haemorrhage NOS
F436.00	Choroidal haemorrhage and rupture
F436000	Unspecified choroidal haemorrhage
F436100	Expulsive choroidal haemorrhage
F436z00	Choroidal haemorrhage or rupture NOS
F437200	Haemorrhagic choroidal detachment
F4C7100	Subconjunctival haemorrhage
F4C7200	Conjunctival haemorrhage NOS
F4Ey000	Haemorrhage of eyelid
F4G3200	Exophthalmos due to orbital haemorrhage
F4H4100	Optic nerve sheath haemorrhage
F4K2800	Vitreous haemorrhage
F4K7.00	Retrobulbar haemorrhage
F501G00	Haemorrhagic otitis externa
FyuH400	[X]Vitreous haemorrhage in diseases classified elsewhere
G617.00	Intracerebral haemorrhage, intraventricular
J10y000	Haemorrhage of oesophagus
J150000	Acute haemorrhagic gastritis
J510900	Bleeding diverticulosis
J573.00	Haemorrhage of rectum and anus
J573.11	Bleeding PR
J573000	Rectal haemorrhage
J573011	Rectal bleeding
J573012	PRB - Rectal bleeding
J573100	Anal haemorrhage
J573z00	Haemorrhage of rectum and anus NOS
J636.00	Central haemorrhagic necrosis of liver
J670200	Acute haemorrhagic pancreatitis
J68..00	Gastrointestinal haemorrhage
J680.00	Haematemesis
J680.11	Vomiting of blood
J681.00	Melaena
J681.11	Blood in stool
J681.12	Altered blood in stools
J681.13	Blood in stools altered
J68z.00	Gastrointestinal haemorrhage unspecified
J68z.11	GIB - Gastrointestinal bleeding
J68z000	Gastric haemorrhage NOS
J68z100	Intestinal haemorrhage NOS
J68z200	Upper gastrointestinal haemorrhage
J68zz00	Gastrointestinal tract haemorrhage NOS

R063100	[D]Pulmonary haemorrhage NOS
Ryu0200	[X]Haemorrhage from other sites in respiratory passages
Ryu0700	[X]Haemorrhage from respiratory passages, unspecified
7J01300	Reopen cranium reexploration op site arrest post op bleeding
S62..00	Cerebral haemorrhage following injury
S62..11	Extradural haemorrhage following injury
S62..12	Subarachnoid haemorrhage following injury
S62..13	Subdural haemorrhage following injury
S62..14	Traumatic cerebral haemorrhage
S620.00	Closed traumatic subarachnoid haemorrhage
S621.00	Open traumatic subarachnoid haemorrhage
S622.00	Closed traumatic subdural haemorrhage
S623.00	Open traumatic subdural haemorrhage
S624.00	Closed traumatic extradural haemorrhage
S625.00	Open traumatic extradural haemorrhage
S626.00	Epidural haemorrhage
S627.00	Traumatic subarachnoid haemorrhage
S628.00	Traumatic subdural haemorrhage
S62z.00	Cerebral haemorrhage following injury NOS
S63..00	Other cerebral haemorrhage following injury
S63z.00	Other cerebral haemorrhage following injury NOS

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#### **Aneurysm**

7927100	Repair of aneurysm of coronary artery
790N200	Repair of right ventricular aneurysm
790N300	Repair of left ventricular aneurysm
791B500	Repair of aortic sinus of Valsalva aneurysm
7A11.00	Replacement of aneurysmal bifurcation of aorta
7A11000	Emerg repl aneurysm bifurc aorta by anast aorta to fem art
7A11100	Replace aneurysm bifurc aorta by anast aorta to femoral art
7A11200	Emerg repl aneurysm bifurc aorta by anast aorta to iliac a
7A11211	Y graft of abdominal Aortic aneurysm (emergency)
7A11300	Replace aneurysm bifurc aorta by anast aorta to iliac artery
7A11311	Y graft abdominal Aortic aneurysm
7A11y00	Replacement of aneurysmal bifurcation of aorta OS
7A11z00	Replacement of aneurysmal bifurcation of aorta NOS
7A13.00	Emergency replacement of aneurysmal segment of aorta
7A13.11	Emergency repair of aortic aneurysm
7A13000	Emerg replace aneurysm asc aorta by anastom aorta to aorta
7A13100	Emerg replace aneurysm thor aorta by anastom aorta to aorta
7A13200	Emerg replace aneurysm suprarenal aorta by anast aorta/aorta
7A13300	Emerg replace aneurysm infrarenal aorta by anast aorta/aorta
7A13400	Emerg replace aneurysm abdom aorta by anast aorta/aorta NEC
7A13411	Tube graft abdominal Aortic aneurysm (emergency)
7A13y00	Emergency replacement of aneurysmal segment of aorta OS
7A13z00	Emergency replacement of aneurysmal segment of aorta NOS
7A14.00	Other replacement of aneurysmal segment of aorta
7A14.11	Aortic aneurysm repair

7A14000 Replace aneurysm ascend aorta by anast of aorta/aorta NEC  
 7A14100 Replace aneurysm thoracic aorta by anast of aorta/aorta NEC  
 7A14200 Replace aneurys suprarenal aorta by anast aorta to aorta NEC  
 7A14300 Replace aneurys infrarenal aorta by anast aorta to aorta NEC  
 7A14400 Replace aneurysm abdominal aorta by anast aorta to aorta NEC  
 7A14411 Tube graft of Abdominal aortic aneurysm  
 7A14y00 Other replacement of aneurysmal segment of aorta OS  
 7A14z00 Other replacement of aneurysmal segment of aorta NOS  
 7A19400 Operation on aneurysm of aorta NEC  
 7A1B.00 Transluminal operations on aneurysmal segment of aorta  
 7A1B000 Endovascular stenting infrarenal abdominal aortic aneurysm  
 7A1B100 Endovascular stenting of suprarenal aortic aneurysm  
 7A1B200 Endovascular stenting of thoracic aortic aneurysm  
 7A1B300 Endovascular stenting of aortic dissection in any position  
 7A1B400 Endovascular stenting of aortic bifurcation NEC  
 7A1B500 Endovascular stenting of aorto-uniiliac aneurysm  
 7A1B600 Endovascular stenting for aortic aneurysm of bifurcation NEC  
 7A1B700 Endovascular stenting for aorto-uniiliac aneurysm  
 7A1B800 Endovascu insert stent infrarenal abdominal aortic aneurysm  
 7A1B900 Endovascular insertion stent for suprarenal aortic aneurysm  
 7A1BA00 Endovascular insertion of stent for thoracic aortic aneurysm  
 7A1BB00 Endovascular insertion of stent for aortic dissection in any position  
 7A1BC00 Endovas insert stent for aortic aneurysm of bifurcation NEC  
 7A1BD00 Endovascular insertion of stent for aorto-uniiliac aneurysm  
 7A1By00 OS transluminal operations on aneurysmal segment of aorta  
 7A1Bz00 Transluminal operations on aneurysmal segment of aorta NOS  
 7A1C.00 Translum insert stent graft for aneurysmal segment of aorta  
 7A1C000 Endovas ins stent graft for infrarenal abdom aortic aneurysm  
 7A1C100 Endovas insert of stent graft for suprarenal aortic aneurysm  
 7A1C200 Endov insertion of stent graft for thoracic aortic aneurysm  
 7A1C300 Endovascular insertion of stent graft for aortic dissection in any position  
 7A1C400 Endovascular insertion of stent graft for aortic bifurcation NEC  
 7A1C500 Endovas insertion of stent graft for aorto-uniiliac aneurysm  
 7A1Cy00 OS translum ins stent graft for aneurysmal segment of aorta  
 7A1Cz00 Translum ins stent graft for aneurysmal segment of aorta NOS  
 7A21400 Operation on aneurysm of carotid artery  
 7A23.00 Cerebral artery and circle of Willis aneurysm operations  
 7A23.11 Cerebral artery aneurysm operations  
 7A23.12 Circle of Willis aneurysm operations  
 7A23000 Excision of aneurysm of cerebral artery  
 7A23100 Excision of aneurysm of circle of Willis  
 7A23200 Clipping of aneurysm of cerebral artery  
 7A23300 Clipping of aneurysm of circle of Willis  
 7A23400 Ligation of aneurysm of cerebral artery NEC  
 7A23500 Ligation of aneurysm of circle of Willis NEC  
 7A23600 Obliteration of aneurysm of cerebral artery NEC  
 7A23700 Obliteration of aneurysm of circle of Willis NEC

7A23800 Percutaneous coil embolisation of cerebral artery aneurysm  
 7A23y00 Operation on cerebral artery/ circle of Willis aneurysm OS  
 7A23z00 Operation on cerebral artery/ circle of Willis aneurysm NOS  
 7A27C00 Operation on aneurysm of subclavian artery  
 7A27D00 Operation on aneurysm of axillary artery  
 7A27E00 Operation on aneurysm of brachial artery  
 7A27F00 Operation on aneurysm of vertebral artery  
 7A31300 Operation on aneurysm of renal artery  
 7A34C00 Operation on aneurysm of coeliac artery NEC  
 7A34D00 Operation on aneurysm of superior mesenteric artery NEC  
 7A34E00 Operation on aneurysm of inferior mesenteric artery NEC  
 7A34F00 Operation on aneurysm of suprarenal artery NEC  
 7A34K00 Operation on aneurysm visceral branch of abdominal aorta NEC  
 7A40.00 Replacement of aneurysmal iliac artery  
 7A40.11 Replacement of aneurysmal iliac artery by anastomosis  
 7A40000 Emerg replace aneurysm iliac art by iliac/femoral art anast  
 7A40100 Replace aneurysmal iliac art by iliac/femoral art anast NEC  
 7A40200 Emerg replace aneurysmal iliac artery by fem/fem art anast  
 7A40300 Replace aneurysmal iliac artery by fem/fem artery anast NEC  
 7A40400 Emerg replace aneurys com iliac a by aorta/com iliac a anast  
 7A40500 Emerg replace aneurys iliac art by aorta/ext iliac art anast  
 7A40600 Emerg replace aneurysm leg artery by aorta/com fem art anast  
 7A40700 Emerg replace aneurysm leg artery by aorta/sup fem art anast  
 7A40800 Emerg replace aneurysm iliac artery by iliac/iliac art anast  
 7A40900 Replace aneurysm com iliac a by aorta/com iliac a anast NEC  
 7A40A00 Replace aneurysm iliac art by aorta/ext iliac art anast NEC  
 7A40B00 Replace aneurysm leg artery by aorta/com fem art anast NEC  
 7A40C00 Replace aneurysm leg artery by aorta/sup fem art anast NEC  
 7A40D00 Replace aneurysm iliac artery by iliac/iliac art anast NEC  
 7A40y00 Other specified replacement of aneurysmal iliac artery  
 7A40z00 Replacement of aneurysmal iliac artery NOS  
 7A43200 Operation on aneurysm of iliac artery NEC  
 7A45.00 Emergency replacement of aneurysmal femoral/popliteal artery  
 7A45.11 Emerg replacement aneurysmal femoral/popl art by anastomosis  
 7A45.12 Emergency replacement of aneurysmal common femoral artery  
 7A45.13 Emergency replacement of aneurysmal deep femoral artery  
 7A45.14 Emergency replacement of aneurysmal popliteal artery  
 7A45.15 Emergency replacement aneurysmal superficial femoral artery  
 7A45000 Emerg replace aneurysm fem art by fem/pop art anast c prosth  
 7A45100 Emerg replace aneurysm pop art by pop/pop art anast c prosth  
 7A45200 Emerg replace aneurysm fem art by fem/pop anast c vein graft  
 7A45300 Emerg replace aneurys pop art by pop/pop a anast c vein graf  
 7A45400 Emerg replace aneurysm femoral art by fem/tib a anast c pros  
 7A45500 Emerg replace aneurysm pop art by pop/tib art anast c prosth  
 7A45600 Emerg replace aneurys fem art by fem/tib a anast c vein graf  
 7A45700 Emerg replace aneurysm pop art by pop/tib anast c vein graft  
 7A45800 Emerg replace aneurysm fem art by fem/peron a anast c prosth

7A45900 Emerg replace aneurysm pop art by pop/peron a anast c prosth  
 7A45A00 Emerg replace aneur fem art by fem/peron a anast c vein graf  
 7A45B00 Emerg replace aneur pop art by pop/peron a anast c vein graf  
 7A45C00 Emerg replace aneurysm fem artery by fem/fem art anastomosis  
 7A45D00 Emerg replace aneurysm pop artery by pop/fem art anastomosis  
 7A45y00 Emergency replacement aneurysmal femoral/popliteal artery OS  
 7A45z00 Emergency replacement aneurysmal femoral/popliteal art NOS  
 7A46.00 Other replacement of aneurysmal femoral artery  
 7A46.11 Other replacement aneurysmal femoral artery by anastomosis  
 7A46.12 Other replacement of aneurysmal common femoral artery  
 7A46.13 Other replacement of aneurysmal deep femoral artery  
 7A46.14 Other replacement of aneurysmal popliteal artery  
 7A46.15 Other replacement of aneurysmal superficial femoral artery  
 7A46000 Replace aneurysm fem art by fem/pop art anastom c prosth NEC  
 7A46100 Replace aneurysm pop art by pop/pop art anastom c prosth NEC  
 7A46200 Replace aneurysm fem art by fem/pop a anast c vein graft NEC  
 7A46300 Replace aneurysm pop art by pop/pop a anast c vein graft NEC  
 7A46400 Replace aneurysm fem art by fem/tib art anast c prosth NEC  
 7A46500 Replace aneurysm pop art by pop/tib art anast c prosth NEC  
 7A46600 Replace aneurysm fem art by fem/tib a anast c vein graft NEC  
 7A46700 Replace aneurysm pop art by pop/tib a anast c vein graft NEC  
 7A46800 Replace aneurysm fem art by fem/peron art anast c prosth NEC  
 7A46900 Replace aneurysm pop art by pop/peron art anast c prosth NEC  
 7A46A00 Replace aneurys fem art by fem/peron a anast c vein graf NEC  
 7A46B00 Replace aneurys pop art by pop/peron a anast c vein graf NEC  
 7A46C00 Replace aneurysm fem artery by fem/fem art anastomosis NEC  
 7A46D00 Replace aneurysm popliteal artery by pop/fem anastomosis NEC  
 7A46y00 Other replacement of aneurysmal femoral/popliteal artery OS  
 7A46z00 Other replacement of aneurysmal femoral/popliteal artery NOS  
 7A4A400 Ligation of aneurysm of popliteal artery  
 7A4A500 Operation on aneurysm of femoral artery NEC  
 7A53400 Operation on aneurysm of artery NEC  
 7A58.00 Transluminal coil embolisation of aneurysm  
 7A58000 Percutaneous transluminal coil embolisation aneurysm small  
 7A58100 Percutaneous transluminal coil embolisation aneurysm medium  
 7A58200 Percutaneous transluminal coil embolisation aneurysm large  
 7A58300 Percutaneous transluminal coil embolisation aneurysm giant  
 7A58y00 Other specified transluminal coil embolisation of aneurysm  
 7A58z00 Transluminal coil embolisation of aneurysm NOS  
 7A59.00 Transluminal balloon assisted coil embolisation of aneurysm  
 7A59000 Perc translum ball assist coil embolisat three more aneurysm  
 7A59100 Perc translum balloon assist coil embolis two aneurysms  
 7A59200 Perc translum balloon assist coil embolisat single aneurysm  
 7A59y00 OS transluminal balloon assisted coil embolisation aneurysm  
 7A59z00 Transluminal balloon assisted coil embolisation aneurysm NOS  
 7A5A.00 Transluminal stent assisted coil embolisation of aneurysm  
 7A5A000 Perc translumin stent assis coil embolis three more aneurysm

7A5A100 Perc translum stent assisted coil embolisation two aneurysms  
 7A5A200 Perc trans stent assisted coil embolisation single aneurysm  
 7A5Ay00 OS transluminal stent assisted coil embolisation of aneurysm  
 7A5Az00 Transluminal stent assisted coil embolisation aneurysm NOS  
 7A5B.00 Other transluminal embolisation of aneurysm  
 7A5B000 Percutaneous translumin liquid polymer embolisation aneurysm  
 7A5B100 Percut translum stent assist liquid polymer embolis aneurysm  
 7A5By00 Other specified other transluminal embolisation of aneurysm  
 7A5Bz00 Other transluminal embolisation of aneurysm NOS  
 7A6G800 Thrombin injection for pseudoaneurysm  
 7A6T000 Duplex ultrasound guided compression of pseudoaneurysm  
 A930.00 Syphilitic aortic aneurysm  
 A94y600 Rupture of syphilitic cerebral aneurysm  
 F421800 Retinal microaneurysms NOS  
 F421H00 Retinal macroaneurysm  
 F4C7500 Aneurysm of conjunctiva  
 G341.00 Aneurysm of heart  
 G341.11 Cardiac aneurysm  
 G341000 Ventricular cardiac aneurysm  
 G341100 Other cardiac wall aneurysm  
 G341111 Mural cardiac aneurysm  
 G341200 Aneurysm of coronary vessels  
 G341z00 Aneurysm of heart NOS  
 G421.00 Aneurysm of pulmonary artery  
 G600.00 Ruptured berry aneurysm  
 G673.00 Cerebral aneurysm, nonruptured  
 G673000 Dissection of cerebral arteries, nonruptured  
 G673200 Carotid artery dissection  
 G673300 Vertebral artery dissection  
 G71..00 Aortic aneurysm  
 G710.00 Dissecting aortic aneurysm  
 G711.00 Thoracic aortic aneurysm which has ruptured  
 G711.11 Ruptured thoracic aortic aneurysm  
 G712.00 Thoracic aortic aneurysm without mention of rupture  
 G713.00 Abdominal aortic aneurysm which has ruptured  
 G713.11 Ruptured abdominal aortic aneurysm  
 G713000 Ruptured suprarenal aortic aneurysm  
 G714.00 Abdominal aortic aneurysm without mention of rupture  
 G714.11 AAA - Abdominal aortic aneurysm without mention of rupture  
 G714000 Juxtarenal aortic aneurysm  
 G714100 Inflammatory abdominal aortic aneurysm  
 G714200 Infrarenal abdominal aortic aneurysm  
 G714300 Aneurysm of suprarenal aorta  
 G715.00 Ruptured aortic aneurysm NOS  
 G715000 Thoracoabdominal aortic aneurysm, ruptured  
 G716.00 Aortic aneurysm without mention of rupture NOS  
 G716000 Thoracoabdominal aortic aneurysm, without mention of rupture



G717.00	Aortic aneurysm - syphilitic
G718.00	Leaking abdominal aortic aneurysm
G719.00	Abscess of aortic root
G71A.00	Aortic root dilatation
G71z.00	Aortic aneurysm NOS
G72..00	Other aneurysm
G720.00	Aneurysm of artery of arm
G720000	Aneurysm of brachial artery
G720100	Aneurysm of radial artery
G720200	Aneurysm of ulnar artery
G720z00	Aneurysm of arm artery NOS
G721.00	Aneurysm of renal artery
G721000	Acquired renal artery aneurysm
G722.00	Aneurysm of iliac artery
G722000	Aneurysm of common iliac artery
G722100	Aneurysm of external iliac artery
G722200	Aneurysm of internal iliac artery
G722z00	Aneurysm of iliac artery NOS
G723.00	Aneurysm of leg artery
G723000	Aneurysm of femoral artery
G723100	Aneurysm of popliteal artery
G723200	Aneurysm of anterior tibial artery
G723300	Aneurysm of dorsalis pedis artery
G723400	Aneurysm of posterior tibial artery
G723500	Ruptured popliteal artery aneurysm
G723600	Post radiological femoral false aneurysm
G723z00	Aneurysm of leg artery NOS
G724.00	Arterial false aneurysm
G724.11	False aneurysm
G725.00	Dissection of artery of upper extremity
G725.11	Dissection of artery of arm
G726.00	Dissection of renal artery
G727.00	Dissection of iliac artery
G728.00	Dissection of artery of lower extremity
G728.11	Dissection of artery of leg
G729.00	Aneurysm and dissection of precerebral artery
G72A.00	Dissection of other specified arteries
G72B.00	Dissection of artery
G72C.00	Ruptured aneurysm of dialysis vascular access
G72D.00	Aneurysm of dialysis arteriovenous fistula
G72D000	Aneurysm of superficialised artery of dialysis AV fistula
G72D100	Aneurysm of needle site of dialysis arteriovenous fistula
G72D200	Aneurysm of anastomotic site of dialysis AV fistula
G72E.00	Aneurysm of dialysis vascular access
G72y.00	Aneurysm of other artery
G72y000	Aneurysm of common carotid art
G72y100	Aneurysm of external carotid artery

G72y200	Aneurysm of internal carotid artery
G72y300	Aneurysm of neck artery NOS
G72y400	Aneurysm of subclavian artery
G72y500	Aneurysm of splenic artery
G72y600	Aneurysm of axillary artery
G72y700	Aneurysm of coeliac artery
G72y800	Aneurysm of superior mesenteric artery
G72y900	Aneurysm of inferior mesenteric artery
G72yA00	Aneurysm of hepatic artery
G72yB00	Aneurysm of other visceral artery
G72yC00	Vertebral artery aneurysm
G72yz00	Other aneurysm NOS
G72z.00	Aneurysm NOS
Gyu7100	[X]Aortic aneurysm of unspecified site, ruptured
Gyu7200	[X]Aortic aneurysm of unspecified site, nonruptured
Gyu7300	[X]Aneurysm of other specified arteries
Gyu7800	[X]Aneurysm of aorta in diseases classified elsewhere
J062000	Aneurysmal cyst of jaw
N332200	Aneurysmal bone cyst
SP08Q00	Aneurysm of artery of transplanted kidney
SP08S00	Aneurysm of vein of transplanted kidney

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#### **Proliferative retinopathy**

F420100	Proliferative diabetic retinopathy
F420700	High risk proliferative diabetic retinopathy
F421A11	Retinitis proliferans
F422.00	Other proliferative retinopathy
F422100	Proliferative retinopathy due to sickle cell disease
F422y00	Other specified other proliferative retinopathy
F422z00	Proliferative retinopathy NOS
FyuF700	[X]Other proliferative retinopathy

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#### **Pregnancy**

62...00	Patient pregnant
62...11	Antenatal care
62...12	Maternity care
62...13	Pregnancy care
621..00	Patient currently pregnant
621..11	Pregnancy confirmed
6211.00	Pregnant - urine test confirms
6212.00	Pregnant - blood test confirms
6213.00	Pregnant - V.E. confirms
6214.00	Pregnant - on history
6215.00	Pregnant - on abdom. palpation
6216.00	Pregnant - planned
6217.00	Pregnant - unplanned - wanted
6218.00	Pregnant -unplanned-not wanted
6219.00	Patient ? pregnant

621A.00 Pregnancy unplanned ? wanted  
 621B.00 Pregnant - ? planned  
 621C.00 Unplanned pregnancy  
 621D.00 Concealed pregnancy  
 621Z.00 Patient pregnant NOS  
 622..00 Antenatal care: gravida No.  
 6221.00 Antenatal care: primigravida  
 6222.00 Antenatal care: 2nd pregnancy  
 6223.00 Antenatal care: 3rd pregnancy  
 6224.00 Antenatal care: multip  
 622Z.00 Antenatal care: gravida NOS  
 623..00 A/N care: obstetric risk  
 6231.00 A/N care: uncertain dates  
 6232.00 A/N care: recurrent aborter  
 6233.00 A/N care: grand multip  
 6234.00 A/N care: H/O stillbirth  
 6235.00 A/N care: H/O perinatal death  
 6236.00 A/N care: poor obstetr history  
 6237.00 A/N care: H/O trophoblast.dis.  
 623Z.00 A/N care: obstetric risk NOS  
 624..00 A/N care: precious pregnancy  
 6241.00 A/N care: elderly primip.  
 6242.00 A/N care: H/O infertility  
 624Z.00 A/N care: precious preg. NOS  
 625..00 A/N care: social risk  
 6251.00 A/N care: poor home conditions  
 6252.00 A/N care: poor A/N attender  
 6253.00 A/N care: late booker  
 6254.00 A/N care: H/O child abuse  
 625Z.00 A/N care: social risk NOS  
 626..00 A/N care: medical risk  
 627..00 A/N care: gynae. risk  
 628..00 A/N care: risk NOS  
 6281.00 A/N care: under 5ft tall  
 6282.00 A/N care:10yrs+since last preg  
 6283.00 A/N care: primip. < 17 years  
 6284.00 A/N care: primip. > 30 years  
 6285.00 A/N care: multip. > 35 years  
 628Z.00 A/N risk NOS  
 629..00 No ante-natal care  
 6291.00 Ante-natal care: not offered  
 6292.00 Ante-natal care: not wanted  
 6293.00 Ante-natal care: not attended  
 6294.00 No A/N care: not known preg.  
 629Z.00 No ante-natal care NOS  
 62A..00 A/N care provider  
 62a..00 Pregnancy review

62a..11	Review of pregnancy
62A1.00	A/N care from G.P.
62A2.00	A/N care from consultant
62A3.00	A/N - shared care
62A4.00	A/N care midwifery led
62AZ.00	A/N care provider NOS
62b..00	Antenatal HIV screening
62c..00	Antenatal screening
62c0.00	Crown rump length
62E..00	Feeding intention
62E..11	Feeding intention -baby
62E1.00	Feeding intention - not known
62E2.00	Feeding intention - unsure
62E3.00	Feeding intention - breast
62E3.11	Intends to breast feed
62E4.00	Feeding intention - bottle
62E4.11	Intends to bottle feed
62EZ.00	Feeding intention - NOS
62F..00	Antenatal amniocentesis
62F1.00	A/N amniocentesis -not offered
62F2.00	A/N amniocentesis - offered
62F3.00	A/N amniocentesis - not wanted
62F4.00	A/N amniocentesis wanted
62F5.00	A/N amniocentesis - awaited
62F6.00	A/N amniocentesis - normal
62F7.00	A/N amniocentesis - abnormal
62F8.00	A/N amnio. for ? chrom.abnorm.
62F9.00	A/N amnio. for ? neural tube
62FZ.00	Antenatal amniocentesis NOS
62G..00	Antenatal ultrasound scan
62G1.00	A/N U/S scan not offered
62G2.00	A/N U/S scan offered
62G3.00	A/N U/S scan not wanted
62G4.00	A/N U/S scan wanted
62G5.00	A/N U/S scan awaited
62G6.00	A/N U/S scan normal += dates
62G7.00	A/N U/S scan normal +? dates
62G8.00	A/N U/S scan abnormal
62G9.00	A/N U/S scan for ? abnormality
62GA.00	A/N U/S scan for slow growth
62GB.00	Antenatal ultrasounds scan at 4-8 weeks
62GC.00	Antenatal ultrasound scan at 9-16 weeks
62GD.00	Antenatal ultrasound scan at 17-22 weeks
62GE.00	Antenatal ultrasound scan at 22-40 weeks
62GZ.00	Antenatal ultrasound scan NOS
62H..00	A/N Rh antibody screen
62H1.00	A/N Rh screen not offered

62H2.00	A/N Rh screen offered
62H3.00	Rh screen - 1st preg. sample
62H4.00	Rh screen - 2nd preg. sample
62H5.00	Rh screen - 3rd preg. sample
62H6.00	Rh screen - cord blood sample
62H7.00	Rh - 6/12 after anti-D sample
62H8.00	Rh - random, non-preg. sample
62HZ.00	A/N Rh antibody screen NOS
62I..00	Alpha-feto protein blood test
62I..11	AFP test - antenatal
62I..12	Alpha-feto protein test - A/N
62I1.00	AFP blood test offered
62I2.00	AFP blood test not offered
62I3.00	AFP blood test wanted
62I4.00	AFP blood test not wanted
62I5.00	AFP - blood sent
62IZ.00	AFP blood test NOS
62J..00	Rubella screen
62J1.00	Rubella screen not offered
62J2.00	Rubella screen offered
62J3.00	Rubella screen not wanted
62J4.00	Rubella screen wanted
62J5.00	Rubella screen - blood sent
62J6.00	Rubella status not known
62JZ.00	Rubella screen NOS
62K..00	Antenatal syphilis screen
62K1.00	A/N syphilis screen not done
62K2.00	A/N syphilis screen-blood sent
62KZ.00	Antenatal syphilis screen NOS
62L..00	Antenatal blood group screen
62L1.00	A/N blood gp screen not done
62L2.00	A/N blood group screen done
62LZ.00	A/N blood group screen NOS
62M..00	Antenatal sickle cell screen
62M1.00	A/N sickle screen not done
62M2.00	A/N sickle cell screen done
62MZ.00	A/N sickle cell screen NOS
62N..00	Antenatal examinations
62N1.00	A/N booking examination
62N2.00	A/N 12 weeks examination
62N3.00	A/N 16 week examination
62N4.00	A/N 20 week examination
62N5.00	A/N 24 week examination
62N6.00	A/N 28 week examination
62N7.00	A/N 30 week examination
62N8.00	A/N 32 week examination
62N9.00	A/N 34 week examination

62NA.00	A/N 35 week examination
62NB.00	A/N 36 week examination
62NC.00	A/N 37 week examination
62ND.00	A/N 38 week examination
62NE.00	A/N 39 week examination
62NF.00	A/N 40 week examination
62NG.00	A/N 41 week examination
62NH.00	A/N 42 week examination
62NJ.00	Antenatal 22 week examination
62NK.00	Antenatal 25 week examination
62NL.00	Antenatal 31 week examination
62NZ.00	Antenatal examination NOS
62O..00	Misc. antenatal data
62O..11	Fetal maturity - A/N
62O..12	Static weight gain pregnancy
62O1.00	Fetal movements felt
62O1.11	Quickening
62O2.00	Fetal movements seen
62O3.00	Fetal maturity: dates = size
62O4.00	Fetal maturity: dates not=size
62O5.00	Spontaneous membrane rupture
62O6.00	Vaginal "show"
62O6.11	Vaginal "show" - A/N
62O7.00	Pregnancy prolonged - 41 weeks
62O8.00	Pregnancy prolonged - 42 weeks
62O9.00	Initial booking of patient
62OZ.00	Misc. antenatal data NOS
62U..00	Downs screen - blood test
62U..11	Barts test
62U..12	Triple test
62U..13	Double test
62U0.00	Triple test offered
62U1.00	Double test offered
62U2.00	Triple test not offered
62U3.00	Double test not offered
62U4.00	Triple test wanted
62U5.00	Double test wanted
62U6.00	Triple test not wanted
62U7.00	Double test not wanted
62U8.00	Downs screening - blood sent
62U9.00	Downs screen blood test normal
62UA.00	Downs screen blood test abnormal
62Uz.00	Downs screening blood test NOS
62W..00	Antenatal blood tests
62X..00	Length of gestation
62X0.00	Gestation <24 weeks
62X1.00	Gestation = 24 weeks

62X2.00	Gestation >24 weeks
62X3.00	Full term gestation - 40 weeks
62X4.00	Length of gestation at birth
62X5.00	Length of gestation at time of test
62X6.00	Gestation less than 28 weeks
62Y..00	Routine antenatal care
62Z..00	Maternal care NOS

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**Atrial fibrillation confirmed diagnosis**

3272.00	ECG: atrial fibrillation
3273.00	ECG: atrial flutter

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**Atrial fibrillation confirmed diagnosis if recorded on same day as AF Read code**

32A2.00	ECG: P wave abnormal
R143100	[D]Electrocardiogram (ECG) abnormal
3214100	Ambulatory ECG abnormal
3217.00	ECG abnormal

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