

# Richmond and Twickenham - Audit of patients at high risk of CVD

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## Introduction

These audits will identify patients aged 40 to 74 years who may be at risk of cardiovascular disease so that a risk calculator (Framingham or JBS) may be run on each patient to arrive at the patient's risk.

## Setting up

1. Download the audit from the INPS website [www.inps.co.uk](http://www.inps.co.uk) under Client Zone - Downloads - Audits - Richmond & Twickenham PCT.
2. Unzip, following instructions.
3. Go into Clinical Audit in Vision, and select File - Maintenance Mode.
4. Click on Searches - Import Searches.
5. Select the audit you have just downloaded and click Open.
6. Click Yes to the message headed with the audit description.
7. When the audit has imported, click OK to the message The statistics are out of date and should be regenerated.
8. Check the audit has imported correctly.
9. Add and activate any reminders using right click on the audit line.
10. Click on the Generate tab and then the Generate button to run the audits.

Generate - Clinical Audit

Status Searches Generate View Help

Richmond & Twickenham PCT  
Cardiovascular System  
Patients 40-74 yrs at High Risk of Developing CVD (Version 1, 18/08/2008)

3451	Total Practice Population
1721	49.87% Patients 40y - 74y
134	7.79% Patients 40y - 74y on existing disease registers (diabetes, IHD, CVD, stroke/TIA, LVD)
41	30.60% Patients with record of diabetes mellitus
71	52.99% Patients with record of IHD
37	27.61% Patients with record of CVD
28	20.90% Patients with record of stroke/TIA
3	2.24% Patients with record of LVD
1587	92.21% Patients 40y - 74y not on existing disease registers (diabetes, IHD, CVD, stroke/TIA, LVD)
236	14.87% Patients not on existing disease registers with record of hypertension
212	13.36% Patients not on existing disease registers recorded as current smoker or ex-smoker within last 5 years
93	5.86% Patients not on existing disease registers with record of ex-smoker record within last 5 years with NO date in the "Date Stopped" field in the smoking SDA
207	13.04% Patients not on existing disease registers with BMI > 30 or waist circumference male >102, female >88
313	19.72% Patients not on existing disease registers with record of FH of CVD or FH of IHD
30	1.89% Patients not on existing disease registers with record of FH diabetes mellitus
0	0.00% Patients not on existing disease registers with record of FH of hypercholesterolaemia
4	0.25% Patients not on existing disease registers with record of impaired glucose tolerance
0	0.00% Patients not on existing disease registers with record of impaired fasting glycaemia
0	0.00% Patients not on existing disease registers from specified ethnic minority groups (Indian/British Indian, Pakistani/British Pakistani, Bangladeshi/British Bangladeshi)
0	0.00% Patients not on existing disease registers with record of gestational diabetes
1	0.06% Patients not on existing disease registers with record of atrial fibrillation
742	43.11% Patients 40y - 74y not on existing disease registers with any of the above CVD risk factors
0	0.00% JBS cardiovascular disease risk (662k, 662l, 662m, 662n) recorded ever
742	100.00% JBS cardiovascular disease risk (662k, 662l, 662m, 662n) NOT recorded ever
0	0.00% JBS risk score > 30% 10 yrs, recorded ever (662n)
0	0.00% JBS risk score > 30% 10 yrs, recorded last 12m (662n)
0	0.00% JBS risk score > 20% <= 30% 10 yrs, recorded ever (662m)
0	0.00% JBS risk score > 20% <= 30% 10 yrs, recorded last 12m (662m)
742	100.00% Framingham 10yr CHD risk score NOT recorded ever
0	0.00% Framingham 10yr CHD risk score recorded ever
0	0.00% Framingham 10yr CHD risk score recorded in the last 12m
0	0.00% JBS risk score > 20% 10 yrs recorded ever or Framingham 10yr CHD risk score recorded ever
0	Patients with CVD monitoring record in last 12m or have declined assessment or unsuitable for assessment (66f%, 66b0, 6C2., 90h9.)
0	Patients with cardiovascular disease monitoring recorded in the last 12m (66f%, 6C2.)
0	Patients with CVD risk assessment declined or unsuitable for assessment recorded in the last 12m (90h9., 66b0)
0	Patients with NO CVD monitoring record in the last 12m and have NOT declined to be assessed and are NOT unsuitable (NO 66f%, 66b0, 6C2., 90h9.)
0	Patients with NO CVD monitoring record ever and have NOT declined to be assessed and are NOT unsuitable (NO 66f%, 66b0, 6C2., 90h9.)

Ready

Note that the version number and date of the audit that you download may be later than in this screenshot

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## Audit criteria

Version 1, 18/08/2008

### Total Practice population

All active patients (permanent and applied)

### Patients 40y-74y

All active patients aged 40 years up to 74 years inclusive

### Patients 40y-74y on existing disease registers (diabetes, IHD, CVD, stroke/TIA, LVD)

Patients with record of diabetes mellitus

Patients aged 40 years-74 years with a record of diabetes mellitus with one of the following:

C10% Diabetes mellitus

Excluding those with Diabetes Resolved

212H Diabetes resolved

21263 Diabetes resolved

Patients with record of IHD

Patients aged 40 years-74 years with a record of ischaemic heart disease with one of the following:

G3 Ischaemic heart disease - G330z Angina decubitus NOS

G33z. Angina pectoris NOS - G3401 G3401 Double coronary vessel disease

G342. Atherosclerotic cardiovascular disease - G366. Thrombosis atrium,auric append&vent/curr comp foll acute MI

G38.. Postoperative myocardial infarction - G3z.. Ischaemic heart disease NOS

Gyu3.% [X] Ischaemic heart diseases

Patients with record of CVD

Patients aged 40 years-74 years with a record of cerebrovascular disease with one of the following:

G6% Cerebrovascular disease

Patients with record of stroke/TIA

Patients aged 40 years-74 years with a record of stroke with one of the following:

- G61% Intracerebral haemorrhage, etc (excluding G617)
- G63y0 Cerebral infarct due to thrombosis of precerebral arteries
- G63y1 Cerebral infarction due to embolism of precerebral arteries
- G64% Cerebral arterial occlusion, etc
- G66% Stroke and cerebrovascular accident unspecified, etc
- G6760 Cereb infarct due cerebral venous thrombosis, nonpyogenic
- G6W.. Cereb infarct due unsp occlus/stenos precerebr arteries
- G6X.. Cerebrl infarctn due/unspcf occlusn or sten/cerebrl artr
- Gyu62 [X]Other intracerebral haemorrhage
- Gyu63 [X]Cerebrl infarctn due/unspci occlusn or sten/cerebrl artr
- Gyu64 [X]Other cerebral infarction
- Gyu65 [X]Occlusion and stenosis of other precerebral arteries
- Gyu66 [X]Occlusion and stenosis of other cerebral arteries
- Gyu6F [X]Intracerebral haemorrhage in hemisphere, unspecified
- Gyu6G [X]Cereb infarct due unsp occlus/stenos precerebr arteries

Or TIA:

- F4236 Amaurosis fugax
- G65-G654 Transient cerebral ischaemia etc
  - G65.11 Drop attack
  - G65..12 Transient ischaemic attack
  - G65..13 Vertebrobasilar insufficiency
- G650. Basilar artery syndrome
  - G650.11 Insufficiency – basilar artery
- G651. Vertebral artery syndrome
  - G6510 Vertebro-basilar artery syndrome
- G652. Subclavian steal syndrome
- G653. Carotid artery syndrome hemispheric
- G654. Multiple and bilateral precerebral artery syndromes
- G656 Vertebrobasilar insufficiency
- G65y-G65zz Other transient cerebral ischaemia etc
- G65y. Other transient cerebral ischaemia
- G65z. Transient cerebral ischaemia NOS
  - G65z0 Impending cerebral ischaemia
  - G65z1 Intermittent cerebral ischaemia
  - G65zz Transient cerebral ischaemia NOS

Patients with record of LVD

Patients aged 40 years-74 years with a record of Left Ventricular Dysfunction with one of the following:

G581% Left ventricular failure

G581.11 Asthma - cardiac

G581.12 Pulmonary oedema - acute

G581.13 Impaired left ventricular function

G5810 Acute left ventricular failure

585f. Echocardiogram shows left ventricular systolic dysfunction

585g. Echocardiogram shows left ventricular diastolic dysfunction

G5yy9 Left ventricular systolic dysfunction

G5yyA Left ventricular diastolic dysfunction

IJ60 Suspected heart failure

### **Patients 40y-74y not on existing disease registers (diabetes, IHD, CVD, stroke/TIA, LVD)**

Patients aged 40 years-74 years not on existing disease registers for diabetes, IHD, CVD, stroke/TIA or LVD (see above for codes)

### **Patients not on existing disease registers with record of hypertension**

Patients aged 40 years-74 years not on existing disease registers with a record of hypertension with one of the following:

G2... Hypertensive disease

G20% Essential hypertension, etc

G24..-G2z Secondary hypertension, etc

Excluding those with a later record of hypertension resolved:

212K Hypertension resolved

21261 Hypertension resolved

### **Patients not on existing disease registers recorded as current smoker or ex-smoker within last 5 years**

Patients aged 40 years-74 years not on existing disease registers with a record of being a current smoker or ex-smoker in the last 5 years

With a latest Smoking SDA record of Smoker, or the latest entry in any clinical area of one of the following READ codes

1372. Trivial smoker - <1 cig/day

1373. Light smoker - 1-9 cigs/day

1374. Moderate smoker - 10-19 cigs/day

1375. Heavy smoker - 20-39 cigs/day

- 1376. Very heavy smoker - 40+ cigs/day
  - 137C. Keeps trying to stop smoking
  - 137D. Admitted tobacco cons untrue?
  - 137G. Trying to give up smoking
  - 137H. Pipe smoker
  - 137J Cigar smoker
  - 137M Rolls own cigarettes
  - 137P. Cigarette smoker
  - 137Q. Smoking started
  - 137R. Current smoker
  - 137V Smoking reduced
  - 137X. Cigarette consumption
  - 137Y. Cigar consumption
  - 137Z. Tobacco consumption NOS
  - 137a. Pipe tobacco consumption
  - 137b. Ready to stop smoking
  - 137c. Thinking about stopping smoking
  - 137d. Not interested in stopping smoking
  - 137e. Smoking restarted
  - 137f. Reason for restarting smoking
  - 137h Minutes from waking to first tobacco consumption
- Or a record of Ex-smoker in the last 5 years - either a smoking SDA of Ex-smoker, or one of the following READ codes:
- 1377. Ex-trivial smoker (<1/day)
  - 1378. Ex-light smoker (1-9/day)
  - 1379. Ex-moderate smoker (10-19/day)
  - 137A. Ex-heavy smoker (20-39/day)
  - 137B. Ex-very heavy smoker (40+ /day)
  - 137K. Stopped smoking
  - 137L. Current non-smoker
  - 137N. Ex pipe smoker
  - 137O. Ex cigar smoker
  - 137S. Ex smoker
  - 137T. Date ceased smoking

**Patients not on existing disease registers with record of ex-smoker record within last 5 years with NO date in the Date Stopped field in the Smoking SDA**

Patients aged 40 years-74 years not on existing disease registers with a record of ex-smoker in the last 5 years - either a smoking SDA of Ex-smoker, or one of the following READ codes:

- 1377. Ex-trivial smoker (<1/day)
- 1378. Ex-light smoker (1-9/day)
- 1379. Ex-moderate smoker (10-19/day)
- 137A. Ex-heavy smoker (20-39/day)
- 137B. Ex-very heavy smoker (40+/day)
- 137K. Stopped smoking
- 137L. Current non-smoker
- 137N. Ex pipe smoker
- 137O. Ex cigar smoker
- 137S. Ex smoker
- 137T. Date ceased smoking

With NO date in the Date Stopped field on the Smoking SDA

**Patients not on existing disease registers with BMI > 30 or waist circumference male > 102, female > 88**

Patients aged 40 years-74 years not on existing disease registers with a record of BMI more than 30 in the Weight SDA with one of the following Read codes:

- 22K5 Body mass index 30+ - obesity
- 22K7 Body mass index 40+ = severely obese
- 22K% Body Mass Index with a BMI value  $\geq 30$

Or a Waist circumference record with the following Read code:

- 22N0 Waist circumference, and a waist circumference value of more than 88 (female) or 102 (male)

**Patients not on existing disease registers with record of FH of CVD or FH of IHD**

Patients aged 40 years-74 years not on existing disease registers with a record of a family history of CVD or IHD with one of the following:

- 12C% FH: Cardiovascular disease

**Patients not on existing disease registers with record of FH of diabetes mellitus**

Patients aged 40 years-74 years not on existing disease registers with a record of a family history of diabetes mellitus with one of the following:

- 1253 FH diabetes mellitus in first degree relative
- 1252 FH diabetes mellitus
- ZV198 [V] FH diabetes mellitus
- ZV180 [V] Family history of diabetes mellitus

**Patients not on existing disease registers with record of FH of hypercholesterolaemia**

Patients aged 40 years-74 years not on existing disease registers with a record of a family history of hypercholesterolaemia with the following:

1269 Family history of familial hypercholesterolaemia

**Patients not on existing disease registers with record of impaired glucose tolerance**

Patients aged 40 years-74 years not on existing disease registers with a record of impaired glucose tolerance with one of the following:

R102 [D] Glucose tolerance test abnormal

R10E [D] Impaired glucose tolerance

C11y2 Impaired glucose tolerance

**Patients not on existing disease registers with record of impaired fasting glycaemia**

Patients aged 40 years-74 years not on existing disease registers with a record of impaired fasting glycaemia with one of the following:

C11y3 impaired fasting glycaemia

R10D0 [D] Impaired fasting glycaemia

**Patients not on existing disease registers from specified ethnic minority groups (Indian/British Indian, Pakistani/British Pakistani, Bangladeshi/British Bangladeshi)**

Patients aged 40 years-74 years not on existing disease registers with a record of one of the following:

9i7.. Indian or British Indian - ethnic category 2001 census

9S6.. Indian

9i8.. Pakistani or British Pakistani - ethnic category 2001 census

9S7.. Pakistani

9i9.. Bangladeshi or British Bangladeshi - ethn categ 2001 census

9S8.. Bangladeshi

**Patients not on existing disease registers with record of gestational diabetes**

Patients aged 40 years-74 years not on existing disease registers with a record of gestational diabetes with the following:

L1808 Diabetes mellitus arising in pregnancy

### **Patients not on existing disease registers with record of atrial fibrillation**

Patients aged 40 years-74 years not on existing disease registers with a record of atrial fibrillation with one of the following:

- 3272 ECG: atrial fibrillation
- 8H41. General medical referral
- 8H44. Cardiological referral
- 8HR1. Refer for ECG recording
- 8H4R. Ref to cardio spec interest GP
- 8HVJ Private referral to cardiologist

And no later record of atrial fibrillation resolved:

- 212R. Atrial fibrillation resolved

### **Patients 40y-74y not on existing disease registers with any of the above CVD risk factors**

Patients aged 40 years-74 years not on existing disease registers with any of the above CVD risk factors

#### **JBS cardiovascular disease risk (662k, 662l, 662m, 662n) recorded ever**

Patients aged 40 years-74 years not on existing disease registers with any of the above CVD risk factors with a record, ever, of one of the following:

- 662k JBS cardiovascular disease risk < 10% over next 10 years
- 662l JBS cardiovascular disease risk 10 - 20% over next 10 years
- 662m JBS cardiovascular disease risk > 20% up to 30% in next 10 years
- 662n > 30% over next 10 years

#### **JBS cardiovascular disease risk (662k, 662l, 662m, 662n) NOT recorded ever**

Patients aged 40 years-74 years not on existing disease registers with any of the above CVD risk factors with NO record ever of one of the following:

- 662k JBS cardiovascular disease risk < 10% over next 10 years
- 662l JBS cardiovascular disease risk 10 - 20% over next 10 years
- 662m JBS cardiovascular disease risk > 20% up to 30% in next 10 years
- 662n > 30% over next 10 years

#### **JBS risk score >30% 10 yrs, recorded ever (662n)**

Patients aged 40 years-74 years not on existing disease registers with any of the above CVD risk factors with a record over 30% ever of the following:

- 662n > 30% over next 10 years

### **JBS risk score >30% 10 yrs, recorded last 12m (662n)**

Patients aged 40 years-74 years not on existing disease registers with any of the above CVD risk factors with a record over 30% in the last 12 months of the following:

662n > 30% over next 10 years

### **JBS risk score >20% <=30% 10 yrs, recorded ever (662m)**

Patients aged 40 years-74 years not on existing disease registers with any of the above CVD risk factors with a record ever of between 20% and 30% with the following:

662m JBS cardiovascular disease risk > 20% up to 30% in next 10 years

### **JBS risk score >20% <=30% 10 yrs, recorded last 12m (662m)**

Patients aged 40 years-74 years not on existing disease registers with any of the above CVD risk factors with a record in the last 12 months of between 20% and 30% with the following:

662m JBS cardiovascular disease risk > 20% up to 30% in next 10 years

### **Framingham 10yr CHD risk score NOT recorded ever**

Patients aged 40 years-74 years not on existing disease registers with any of the above CVD risk factors with NO record ever of Framingham CHD 10 year risk score entered into the Scoring Test Result SDA:

3888 Framingham CHD 10 year risk score

### **Framingham 10yr CHD risk score recorded ever**

Patients aged 40 years-74 years not on existing disease registers with any of the above CVD risk factors with a record ever of Framingham CHD 10 year risk score entered into the Scoring Test Result SDA:

3888 Framingham CHD 10 year risk score

### **Framingham 10yr CHD risk score recorded in the last 12m**

Patients aged 40 years-74 years not on existing disease registers with any of the above CVD risk factors with a record in the last 12 months of Framingham CHD 10 year risk score entered into the Scoring Test Result SDA:

3888 Framingham CHD 10 year risk score

JBS risk score > 20% 10 yrs recorded ever or Framingham 10yr CHD risk score recorded ever

Patients aged 40 years-74 years not on existing disease registers with any of the above CVD risk factors

With a JBS risk score recorded ever of more than 20%:

662m JBS cardiovascular disease risk > 20% up to 30% in next 10 years

662n > 30% over next 10 years

Or Framingham 10yr CHD risk score, recorded ever:

3888 Framingham CHD 10 year risk score

Patients with CVD monitoring record in last 12m or have declined assessment or unsuitable for assessment (66f%, 66b0, 6C2., 9Oh9)

Patients aged 40 years-74 years not on existing disease registers with any of the above CVD risk factors

With a JBS risk score recorded ever of more than 20%:

662m JBS cardiovascular disease risk > 20% up to 30% in next 10 years

662n > 30% over next 10 years

Or Framingham 10yr CHD risk score, recorded ever:

3888 Framingham CHD 10 year risk score

Who have had a CVD monitoring record in the last 12 months

66f% Cardiovascular disease monitoring

66f0. Cardiovascular disease annual review

66f1. Cardiovascular disease interim monitoring

Or have declined assessment or unsuitable for assessment:

66b0 Cardiovascular disease monitoring not required

6C2. Primary prevention of cardiovascular disease

9Oh9 Cardiovascular disease risk assessment declined

Patients with cardiovascular disease monitoring recorded in the last 12m (66f%, 6C2.)

As above with:

66f% Cardiovascular disease monitoring

66f0. Cardiovascular disease annual review

66f1. Cardiovascular disease interim monitoring

6C2. Primary prevention of cardiovascular disease

Patients with CVD Risk assessment declined or unsuitable for assessment recorded in the last 12m (9Oh9, 66b0)

As above with:

9Oh9 Cardiovascular disease risk assessment declined

66b0 Cardiovascular disease monitoring not required

Patients with NO CVD monitoring recorded in the last 12m and have NOT declined to be assessed and are NOT unsuitable (No 66f%, 66b0, 6C2., 90h9)

Patients aged 40 years-74 years not on existing disease registers with any of the above CVD risk factors

With a JBS risk score recorded ever of more than 20%:

662m JBS cardiovascular disease risk > 20% up to 30% in next 10 years

662n > 30% over next 10 years

Or Framingham 10yr CHD risk score, recorded ever:

3888 Framingham CHD 10 year risk score

Who have NOT had a CVD monitoring record in the last 12 months with the following:

66f% Cardiovascular disease monitoring

66f0. Cardiovascular disease annual review

66f1. Cardiovascular disease interim monitoring

Or NO record of having declined assessment or unsuitable for assessment:

66b0 Cardiovascular disease monitoring not required

6C2. Primary prevention of cardiovascular disease

90h9 Cardiovascular disease risk assessment declined

Patients with NO CVD monitoring recorded ever and have NOT declined to be assessed and are NOT unsuitable (No 66f%, 66b0, 6C2., 90h9)

Patients aged 40 years-74 years not on existing disease registers with any of the above CVD risk factors

With a JBS risk score recorded ever of more than 20%:

662m JBS cardiovascular disease risk > 20% up to 30% in next 10 years

662n > 30% over next 10 years

Or Framingham 10yr CHD risk score, recorded ever:

3888 Framingham CHD 10 year risk score

Who have NOT had a CVD monitoring record ever with the following:

66f% Cardiovascular disease monitoring

66f0. Cardiovascular disease annual review

66f1. Cardiovascular disease interim monitoring

Or NO record of having declined assessment or unsuitable for assessment:

66b0 Cardiovascular disease monitoring not required

6C2. Primary prevention of cardiovascular disease

90h9 Cardiovascular disease risk assessment declined