

## HEALTH MODULE (HE)

### HEHELF

Now I would like to ask you some questions about your health. **Would you say your health is...**

INTERVIEWER: Read out...

- 1 excellent,
- 2 very good,
- 3 good,
- 4 fair,
- 5 or, poor?

### HELL\*

[^Do you / Does [^name]] have any long-standing illness, disability or infirmity? By long-standing I mean anything that has troubled [^you / [^name]] over a period of time, or that is likely to affect [^you / [^name]] over a period of time.

- 1 Yes
- 2 No

*IF whether has long-standing illness = yes [Hell = 1]*

### HELIM\*

(Does this / Do these) illness(es) or disability(ies) limit [^your / [^name's]] activities in any way?

- 1 Yes
- 2 No

END OF FILTER

### HELWK

Do you have any health problem or disability that limits the kind or amount of paid work you could do, should you want to?

- 1 Yes
- 2 No

*IF whether health limits paid work = yes [HeLWk = 1]*

### HETEMP

Is this a health problem or disability that you expect to last less than three months?

- 1 Yes
- 2 No

END OF FILTER

### HEFINT\* @

**The next question asks about difficulties you may have walking a quarter of a mile because of a health problem. By health problem we mean any long-term physical, mental or emotional problem or illness.**

1 Press <1> and <Enter> to continue.

### HEFUNC\*

By [^yourself / himself / herself] and without using any special equipment, how much difficulty [^do you / does [^name]] have walking for a quarter of a mile? [^Do you / Does he / Does she] have...

INTERVIEWER: Read out...

- 1 ...no difficulty,
- 2 some difficulty,

3 much difficulty,  
4 or, [^are you / is he / is she] unable to do this?

**HEEYE\***

Is [^your / [^name's]] eyesight (using glasses or corrective lens if [^you use / he uses / she uses] them)...

INTERVIEWER: Read out...

- 1 ...excellent,
- 2 very good,
- 3 good,
- 4 fair,
- 5 or, poor?
- 6 SPONTANEOUS: Registered or legally blind

*If eyesight is fair, poor, or blind [HEEYE = 4, 5, or 6]*

**Heeyea\***

^Are/Is ^you/name registered with your local council as partially sighted (also known as sight impaired), or blind (also known as severely sight impaired)?

- 1 Partially sighted (also known as sight impaired)
- 2 Blind (also known as severely sight impaired)
- Not registered as being sight impaired

END OF FILTER

*IF eyesight condition <> blind [Heeye <> 6]*

**HEFRND\***

How good is your eyesight for seeing things at a distance, like recognising a friend across the street (using glasses or corrective lenses if use them)? Would you say it is...

INTERVIEWER: Read out...

- 1 ...excellent,
- 2 very good,
- 3 good,
- 4 fair,
- 5 or, poor?

**HEPAP\***

How good is your eyesight for seeing things up close, like reading ordinary newspaper print (using glasses or corrective lenses if use them)? Would you say it is...

INTERVIEWER: Read out...

- 1 ...excellent,
- 2 very good,
- 3 good,
- 4 fair,
- 5 or, poor?

END OF FILTER

*IF (types of eye conditions at Last interview = RESPONSE) AND NOT (types of eye conditions at Last interview = none)*

*[(HeOpt (Last interview) = RESPONSE) AND NOT (HeOpt (Last int) = 96)]*

**HEOPC @**

Our records show that when we last interviewed you [^on date of last interview], you said that

you had had (or had been told by a doctor you had had) [^glaucoma or suspected glaucoma / diabetic eye disease / macular degeneration / cataracts].

INTERVIEWER: Code 1 below unless respondent spontaneously disputes this record.

1 Yes

2 No

**[Multiple responses to HEOPC are recoded in variables heopcgl heopcdi heopcmd heopcca]**

*IF whether confirms previous eye condition = no [HeOpC = 2]*

**HEOPN @**

INTERVIEWER: Code reason why respondent disputes the [^glaucoma or suspected glaucoma / diabetic eye disease / macular degeneration / cataracts] report.

Respondent says...

1 Never had

2 No longer has

3 Did not have previously, but has now

4 Misdiagnosed

**[There is a separate variable for responses about each of the type of illness respondent disputes. Responses are recoded in heopngl heopndi heopnmd heopnca]**

END OF FILTER

ELSE

*IF whether confirms previous eye condition = yes [HeOpC = 1]*

**HEOPS @**

Do you still have [^glaucoma or suspected glaucoma / diabetic eye disease / macular degeneration / cataracts]?

1 Yes

2 No

**[There is a separate variable for responses about each of the type of illness respondent disputes. Responses are recoded in heopsgl heopdsi heopsmmd heopsca]**

END OF FILTER

END OF FILTER

END OF FILTER

**HEOPT\* @**

[^Has / Apart from what you have already told us and thinking about what has happened since we last saw [^you / [^name]] on [^date of last interview] has] a doctor or optician [^BLANK / ever] told [^you / [^name]] that [^you have / he has / she has] (or [^you / he / she] had) [^BLANK / any of these other conditions]...

INTERVIEWER: Read out each in turn and code all that apply.

Include Diabetic Retinopathy in code 2.

Include age related Maculopathy in code 3.

1 [^Glaucoma or suspected glaucoma]

2 [^Diabetic eye disease]

3 [^Macular degeneration]

4 [^Cataracts]

96 None of these

**[Multiple responses to HEOPT are recoded in variables heoptgl heoptdi heoptmd heoptca heopt96]**

**[code maximum 4 out of 5 possible responses]**

**[CHECK HE5-HE9]**

*IF ((types of eye conditions = cataract OR (types of eye conditions at Last interview = cataract AND whether confirms previous eye condition = yes)) AND (eyesight condition = [fair, poor, blind] OR eyesight at a distance = [fair, poor] OR eyesight up close = [fair, poor]))*  
*(((Heopt = 4 OR (Heopt (Last interview) = 4 AND HeOpC = 1)) AND (Heeye = [4, 5, 6] OR Hefrnd = [4, 5] OR Hepap = [4, 5]))]*

**hedreyr**

Has a doctor or optician ever recommended that you have your cataracts removed?

1 Yes

2 No

END OF FILTER

*IF ((types of eye conditions at Last interview = cataracts) OR (types of eye conditions = cataracts)) AND ((whether confirms previous eye condition = yes) OR whether ever had cataract surgery at Last interview <> RESPONSE) (((HeOpt (Last int) = 4) OR (HeOpt = 4)) AND ((HeOpC = 1) OR Hecat (Last int) <> RESPONSE))*

**HECAT\***

[[^Have you / Has he / Has she] / Since we last talked to [^you / ^name]] on [^date of last interview] [^have you / has he / has she]] [^BLANK / ever] had cataract surgery?

1 Yes

2 No

**HECATN\***

Was ^yourname[PNum] cataract surgery ^since paid for privately or by the NHS?

INTERVIEWER: Count as *NHS* if the operation was on private premises but paid for by the NHS. Count as *private* if the operation was on NHS premises but paid for privately.

1 Privately/Insurance

2 NHS

3 Both

END OF FILTER

**HEHEAR\***

Is [^your / ^name's]] hearing (using a hearing aid if [^you use / he uses / she uses] one)...

INTERVIEWER: Read out...

1 ...excellent,

2 very good,

3 good,

4 fair,

5 or, poor?

**HEHRA**

Do you find it difficult to follow a conversation if there is background noise, such as TV, radio or children playing (using a hearing aid as usual)?

- 1 Yes
- 2 No

**HeDent\***

SHOW CARD C1

In relation to ^your/name's dental health, which of the following applies to ^him/her

- 1 HaveHas[pnum] no natural teeth and wear dentures
- 2 HaveHas[pnum] both natural teeth and denture(s)
- 3 HaveHas[pnum] only natural teeth
- 4 HaveHas[pnum] neither natural teeth nor dentures

**HeDnta\***

Would you say ^his/her dental health (mouth, teeth and/or dentures) is ...READ OUT...

- 1 excellent,
- 2 very good,
- 3 good,
- 4 fair,
- 5 or, poor?

**HeDnt@**

SHOW CARD C

In the past 6 months, have any problems with your mouth, teeth or dentures caused you to have any of the following

CODE ALL THAT APPLY.

- 1 Difficulty eating food
- 2 Difficulty speaking clearly
- 3 Problems with smiling, laughing and showing teeth without embarrassment
- 4 Problems with emotional stability, for example, becoming more easily upset than usual
- 5 Problems enjoying the company of other people such as family, friends, or neighbours
- 96 None of these

***[Multiple responses to HeDnt are recoded in variables***

***hedntb1 hedntb2 hedntb3 hedntb4 hedntb5 hedntb96]***

*IF (age >= 65) [AgeOf >= 65]*

**HEBPCHK**

In the past year, has any doctor or nurse checked your blood pressure?

- 1 Yes
- 2 No

END OF FILTER

*IF (type of CVD condition at Last interview = RESPONSE) AND NOT (type of CVD condition at Last interview = none) [(HeDiaa (Last int) = RESPONSE) AND NOT (HeDiaa (Last int) = 96)]*

**LOOP FOR EACH CVD CONDITION AT LAST INTERVIEW**

**HEDIAC\*@**

INTERVIEWER: Please check the following sentence before reading out loud.

[^BLANK / Our records show that when we last interviewed [^you / [^name]] on [^date of last interview] [^you / he / she] said that [^you / he / she] had had (or had been told by a doctor [^you / he / she] had had) / Our records also show that when we last interviewed [^you / [^name]] on [^date of last interview] [^you / he / she] said that [^you / he / she] had had (or had been told by a doctor [^you / he / she] had had)] [^high blood pressure or hypertension / angina / a heart attack (including myocardial infarction / or coronary thrombosis) / congestive heart failure / a heart murmur / an abnormal heart rhythm / diabetes or high blood sugar / a stroke (cerebral vascular disease)].

INTERVIEWER: Code 1 below unless respondent spontaneously disputes this record.

- 1 Yes
- 2 No
- 3 Not read out as didn't make sense

***[There is a separate variable for responses about each CVD condition. Responses are recoded in: hedacbp hedacan hedacmi hedachf hedachm hedacar hedacdi hedacst hedacch, hedacot]***

*IF whether confirms previous CVD condition = no [HeDiaC = 2]*

**HEDIAN@\***

INTERVIEWER: Code reason why respondent disputes having had [^high blood pressure or hypertension / angina / a heart attack (including myocardial infarction / or coronary thrombosis) / congestive heart failure / a heart murmur / an abnormal heart rhythm / diabetes or high blood sugar / a stroke (cerebral vascular disease)]. Respondent says...

- 1 Never had
- 2 No longer has
- 3 Did not have previously, but has now
- 4 Misdiagnosed

***[There is a separate variable for responses about each of the type of illness]***

***[Responses are recoded in hedanbp, hedanan, hedanmi, hedanhf, hedanhm, hedanar, hedandi, hedanst, hedanch, hedanot]***

*If disputed condition = no longer has [Hedian = 2]*

**HeDia @**

INTERVIEWER: Did respondent have this condition at the time of the last interview?

If yes, go to HeDiaC and code 1.

- 1 Yes
- 2 No

***[Multiple responses to HEDIA are recoded in variables hediabp, hediaan, hediemi, hediahf, hediahm, hediaar, hediadi, hediast, hediach, hedia95, hedia96]***

END OF FILTER

END OF FILTER

*IF (whether confirms previous CVD condition = yes) AND NOT (Last interview condition = [Heart attack or stroke]) [(HeDiaC = 1) AND NOT (PSeq = [3, 8])]*

**HEDIAS\* @**

[^Do you / Does [^name]] still have [^high blood pressure or hypertension / angina / a heart attack etc.]?

INTERVIEWER: If spontaneously says that it is controlled by treatment code 'Yes'.

1 Yes

2 No

***[There is a separate variable for responses about each of the type of illness]  
[Responses to Hedias are recoded in variables: hedasbp hedasan hedashf  
hedashm hedasar hedasch hedasot]***

END OF FILTER

END OF FILTER

END OF FILTER

**HEDIAA@\***

SHOW CARD E

[^Has / Apart from what you have already told us, and thinking about what has happened since we last saw [^you / [^name]] on [^date of last interview] has] a doctor [^BLANK / ever] told [^you / [^name]] that [^you have / he has / she has] (or have had) any of the [^BLANK / other] conditions on this card?

INTERVIEWER: PROBE - 'What others?' Code all that apply.

01 [^High blood pressure or hypertension]

02 [^Angina]

03 [^A heart attack (including myocardial infarction or coronary thrombosis)]

04 [^Congestive heart failure]

05 [^A heart murmur]

06 [^An abnormal heart rhythm]

07 [^Diabetes or high blood sugar]

08 [^A stroke (cerebral vascular disease)]

09 [^High cholesterol]

95 [^Any other heart trouble (SPECIFY)]

96 None of these

***[Multiple responses to HEDIAA are recoded in variables hediabp hediaan hediemi hediahf  
hediahm hediaar hediadi hediast hediach hedia95 hedia96]***

***[code maximum 10 out of 11 possible responses]***

***[CHECK HE10-HE11]***

*IF (type of CVD condition = other) [(HeDiaa = 95]*

**HEDIX\* @**

INTERVIEWER: Enter name of other heart condition.

String 30

***[Open responses to Hedix are coded and merged with the multiple responses to Hediaa  
(recoded as above). These merged responses are recoded in variables: hedimbp]***

hediman hedimmi hedimhf hedimhm hedimar hedimdi hedimst hedimch hedim85  
hedim86 hedim96]

END OF FILTER

**[CHECK HE12]**

*IF (type of CVD condition = high blood pressure) OR (type of CVD condition at Last interview = high blood pressure AND whether confirms previous high blood pressure condition = yes) [(HeDiaa = 1) OR (HeDiaa (Last int) = 1 AND HeDiaC = 1)]*

**HEHIBPB @**

Some doctors suggest that some patients take medication to lower their blood pressure. Did a doctor or nurse ever suggest that you take any medication to lower your blood pressure?

1 Yes

2 No

**[Response to HEHIBPB is recoded in variable hehbpb]**

**HEMDA\***

[^Are you / Is [^name]] currently taking any medication, tablets or pills for high blood pressure?

1 Yes

2 No

END OF FILTER

*IF CVD conditions = no longer has or or still has CVD conditions = no or previous wave medication to prevent high blood pressure = yes*

*[HEDIAN = no or HEDIAS = no or IFFW[pnum].HEMDAB = yes]*

**HeMdab**

Can I just check, are you taking any medication which prevents you from getting high blood pressure

INTERVIEWER: If respondent queries the question say that they previously did report having high blood pressure.

END OF FILTER

*IF (type of CVD condition at Last interview <> RESPONSE AND type of heart condition = angina) OR (type of CVD condition at Last interview = angina AND whether confirms previous angina condition = yes AND age first told had angina <> RESPONSE) [(HeDiaa (Last int) <> RESPONSE AND HeDiaa = 2) OR (HeDiaa (Last int) = 2 AND HeDiaC = 1 AND HeAgA (Last int) <> RESPONSE)]*

**HEAGA\***

Approximately how old [^were you / was [^name]] when [^you were / he was / she was] first told by a doctor that [^you / he / she] had angina?

INTERVIEWER: Enter age in years.

Range: 0..110

**[CHECK HE13-HE14]**

END OF FILTER

*IF ((type of CVD condition = angina) AND (type of CVD condition at Last interview = RESPONSE) AND NOT (type of CVD condition at Last interview = angina))(((HeDiaa = 2) AND (HeDiaa (Last int) = RESPONSE) AND NOT (HeDiaa (Last int) = 2)))*

**HEAGAR**

When ^were/was ^you/name first told by a doctor that you had angina?

INTERVIEWER: Enter response in month and year.

- 01 January
- 02 February
- 03 March
- 04 April
- 05 May
- 06 June
- 07 July
- 08 August
- 09 September
- 10 October
- 11 November
- 12 December

*If month when told had angina = response [If HEAGAR = RESPONSE]*

**HEAGARY**

INTERVIEWER: Enter the year at this question.

Range: 2002..2004

**[CHECK HE15-HE16]**

END OF FILTER

END OF FILTER

*IF type of CVD condition = angina [HeDiaa = 2]*

**HEYRA**

In the last two years, have you had any angina or chest pains due to your heart?

- 1 Yes
- 2 No

END OF FILTER

*IF ((type of CVD condition <> RESPONSE) AND (type of CVD condition = heart attack)) OR ((type of CVD condition at Last interview = heart attack) AND (whether confirms previous heart attack condition = yes) AND (age first told had heart attack <> RESPONSE)) (((HeDiaa (Last int) <> RESPONSE) AND (HeDiaa = 3)) OR ((HeDiaa (Last int) = 3) AND (HeDiaC = 1) AND (HeAgB (Last int) <> RESPONSE)))*

**HEAGB\***

Approximately how old [^were you / was [^name]] when [^you were / he was / she was] first told by a doctor that [^you / he / she] had a heart attack (including myocardial infarction or coronary thrombosis)?

INTERVIEWER: Enter age in years.

Range: 0..110

**[CHECK HE17-HE18]**

END OF FILTER

*IF (type of CVD condition = heart attack) AND (type of CVD condition at Last interview = RESPONSE) [(HeDiaa = 3) AND (HeDiaa (Last int) = RESPONSE)]*

**HEAGBR\***

When in the last two years [^were you / was [^name]] first told by a doctor that [^you / he / she] had a heart attack?

INTERVIEWER: Enter response in month and year.

01 January

02 February

03 March

04 April

05 May

06 June

07 July

08 August

09 September

10 October

11 November

12 December

*If month when told had heart attack = response [If HEAGBR = RESPONSE]*

**HEAGBRY\***

INTERVIEWER: Enter the year at this question.

Range: 2002..2004

END OF FILTER

**[CHECK HE19 - HE20]**

END OF FILTER

*IF ((type of CVD condition at Last interview <> RESPONSE) AND (type of CVD condition = heart attack)) OR ((type of CVD condition at Last interview = heart attack) AND NOT (type of CVD condition = heart attack)) [(HeDiaa (Last int) <> RESPONSE) AND (HeDiaa = 3)]*

**HENMMI\***

How many heart attacks (including myocardial infarction or coronary thrombosis) [^have you / has [^name]] had since we last talked to [^you / him / her] [^on date of last interview] according to a doctor?

1 1

2 2

3 3 or more

END OF FILTER

*IF ((type of CVD condition at Last interview <> RESPONSE) AND (type of CVD condition = heart attack)) OR ((type of CVD condition at Last interview = heart attack) AND NOT (type of CVD condition = heart attack)) [(HeDiaa (Last int) <> RESPONSE) AND (HeDiaa = 3)] OR ((HeDiaa (Last int) = 3) AND NOT (HeDiaa = 3))]*

**HEYRB\***

In the past two years, [^have you / has [^name]] had a heart attack or myocardial infarction?

- 1 Yes
- 2 No

END OF FILTER

*IF ((type of CVD condition = heart attack) AND (type of CVD condition at Last interview = RESPONSE)) OR ((type of CVD condition at Last interview <> RESPONSE) AND (whether had heart attack in past two years = yes)) [((HeDiaa = 3) AND (HeDiaa (Last int) = RESPONSE)) OR ((HeDiaa <> RESPONSE) AND (HeYRb = 1))]*

**HEBETA**

Did any doctor ever tell [^you / ^name] that [^you / he / she] should take a medication called a betablocker?

INTERVIEWER: PROBE - 'The following drugs are common betas blockers: Atenolol, metoprolol, acebutolol, metoprolol, propranolol, and timolol.'

- 1 Yes
- 2 No

**HEBETB\***

SHOW CARD F

I would like to check whether any of the medications [^you are / ^name] is] taking are on this list of beta-blockers. Could you show me the medications, or the repeat prescription list for any medications, that [^you have / he has / she has] been taking over the past week?

INTERVIEWER: Please check the names of all medications against the showcard to see if they are included in the list of beta-blockers.

Please ask respondents to check the name of their medication on their prescription if necessary.

Press <1> if you identify one of the respondent's medications as being on the list, otherwise press <2>.

PROBE: Can I just check that these are / this is a medication that [^you have / he has / she has] been taking over the past week?

- 1 Taking beta-blocker
- 2 Not taking beta-blocker
- 3 Taking other beta blocker not on the showcard

*IF whether taking beta-blocker in past week = taking other beta-blocker [HeBetb = 3]*

**HEDIXA\* @**

INTERVIEWER: Enter the name of the other beta blocker.  
String 30

END OF FILTER

END OF FILTER

*IF ((type of CVD condition at Last interview <> RESPONSE) AND (type of CVD condition = congestive heart failure)) OR ((type of CVD condition at Last interview = congestive heart failure) AND (whether confirms previous congestive heart failure condition = yes) AND (age first told had congestive heart failure at Last interview <> RESPONSE)) [((HeDiaa (Last int) <> RESPONSE) AND (HeDiaa = 4)) OR ((HeDiaa (Last int) = 4) AND (HeDiaC = 1) AND (HeAgC (Last int) <> RESPONSE))]*

**HEAGC\***

Approximately how old [^were you / was [^name]] when [^you were / he was / she was] first told by a doctor that [^you / he / she] had congestive heart failure?

INTERVIEWER: Enter age in years.

Range: 0..110

**[CHECK HE21 - HE22]**

END OF FILTER

*IF ((type of CVD condition = congestive heart failure) AND (type of CVD condition at Wave 1 = RESPONSE) AND NOT (type of CVD condition at Last interview = congestive heart failure))  
[((HeDiaa = 4) AND (HeDiaa (Last int) = RESPONSE) AND NOT (HeDiaa (Last int) = 4))]*

**HEAGCR\***

When in the last two years [^were you / was [^name]] first told by a doctor that [^you / he . she] had congestive heart failure?

INTERVIEWER: Enter response in month and year.

01 January

02 February

03 March

04 April

05 May

06 June

07 July

08 August

09 September

10 October

11 November

12 December

*If month when told had congestive heart failure = response [If HEAGCR = RESPONSE]*

**HEAGCRY\***

INTERVIEWER: Enter the year at this question.

Range: 1900..2050

**[CHECK HE23-HE24]**

END OF FILTER

END OF FILTER

*IF ((type of CVD condition at Last interview <> RESPONSE) AND (type of heart condition = diabetes)) OR ((type of CVD condition at Last interview = diabetes) AND (whether confirms previous diabetes condition = yes) AND (age first told had diabetes at Last interview <> RESPONSE)) [((HeDiaa (Last int) <> RESPONSE) AND (HeDiaa = 7)) OR ((HeDiaa (Last int) = 7) AND (HeDiaC = 1) AND (HeAgD (Last int) <> RESPONSE))]*

**HEAGD\***

Approximately, how old [^were you / was [^name]] when [^you were / he was / she was] first told by a doctor that [^you / he / she] had diabetes or high blood sugar?

INTERVIEWER: Enter age in years.

Range: 0..110

**[CHECK HE25]**

END OF FILTER

*IF ((type of CVD condition = diabetes) AND (type of CVD condition at Last interview =*

RESPONSE)AND NOT (type of CVD condition at Last interview = diabetes))  
[[ (HeDiaa = 7) AND (HeDiaa (Last int) = RESPONSE) AND NOT (HeDiaa (Last int) = 7) ]]

**HEAGDR\***

When in the last two years [^were you / was [^name]] first told by a doctor that [^you / he / she] had diabetes or high blood sugar?

INTERVIEWER: Enter response in month and year.

01 January

02 February

03 March

04 April

05 May

06 June

07 July

08 August

09 September

10 October

11 November

12 December

**HEAGDRY\***

INTERVIEWER: Enter the year at this question.

Range: 1900..2050

**[CHECK HE26 - HE27]**

END OF FILTER

IF (type of CVD condition = diabetes) OR (type of CVD condition at Last interview = diabetes)  
[[ (HeDiaa = 7) OR (HeDiaa (Last int) = 7) ]]

**HEACD\***

INTERVIEWER: ASK OR CODE: Has a doctor ever told [^you / [^name]] that [^you have / he has / she has] diabetes?

1 Yes

2 No

IF whether ever told had diabetes = yes [HeACd = 1]

**HEINS\***

[^Do you / Does [^name]] currently inject insulin for diabetes?

1 Yes

2 No

**HEMDB\***

[^Are you / Is [^name]] currently taking any tablets, pills or other medication that [^you swallow / he swallows / she swallows] for diabetes?

1 Yes

2 No

**HEACE**

Has a doctor discussed with [^you / [^name]] whether [^you / he / she] should take a medication called an ACE inhibitor or A2 receptor blocker?

INTERVIEWER: PROBE - 'These drugs are also called angiotensin converting enzyme inhibitors or angiotensin-II receptor blockers. Examples are captopril, enalapril, lisinopril,

losartan, and valsartan.'

1 Yes

2 No

**HEACEA\***

SHOW CARD G

I would like to check whether any of the medications [^you are / ^name] is] taking are on this list of ACE inhibitors or A2 receptor blockers. Could you show me the medications, or the repeat prescription list for any medications, that [^you have / he has / she has] been taking over the past week?

INTERVIEWER: Please check the names of all medications to see if they are included in the list of ACE inhibitors or A2 receptor blockers. Press 1 if you identify one respondent's medications as being on the list of ACE inhibitors or A2 receptor blockers, otherwise press 2. PROBE: Can I just check that these are / this is a medication that been taking over the past week?

1 Taking ACE inhibitor or A2 receptor blocker

2 Not taking ACE inhibitor or A2 receptor blocker

3 Taking other ACE inhibitor not on the showcard

*If whether taking ACE inhibitor / A2 receptor blocker in past week = no [HeAcea = 2]*

**HEWEE**

Some doctors check to see if patients with diabetes have protein in their urine. [^Have you /Has [^name]] had a urine test for protein in the past 12 months?

INTERVIEWER: PROBE - 'This test may also be called a microalbumin test, and involves a first morning urine sample or 24-hour urine collection.'

1 Yes

2 No

*IF whether had urine test in past 12 months = yes [Hewee = 1]*

**HEWEEA**

Has a doctor ever told you that you have protein in your urine?

1 Yes

2 No

END OF FILTER

ELSE

*IF whether taking ACE inhibitor / A2 receptor blocker in past week = taking other ACE inhibitor [HeAcea = 3]*

**HEDIXB@**

INTERVIEWER: Enter name of other ACE inhibitor.

String 30

END OF FILTER

END OF FILTER

**HEKIDN**

Has a doctor ever told you that you that your diabetes has caused trouble with your kidneys?

1 Yes

2 No

**HESUG**

Have you ever had a special blood test to see how well your blood sugar was controlled? This test is called a glycosylated haemoglobin, or haemoglobin A1c, or fructosamine. This is a blood test taken at a doctor's surgery or health centre or laboratory.

- 1 Yes
- 2 No

*IF whether ever had blood sugar test = yes [Hesug = 1]*

**HESUGA**

Have you had this test (glycosylated haemoglobin or fructosamine) performed in the past 12 months?

- 1 Yes
- 2 No

END OF FILTER

**HEFTCHK**

Some doctors suggest that some patients with diabetes have a regular foot examination. In the past year, has any doctor or nurse examined your bare feet?

- 1 Yes
- 2 No

END OF FILTER

END OF FILTER

*IF ((type of CVD condition at Last interview = RESPONSE) AND (type of CVD condition = stroke)) OR ((type of CVD condition at Last interview = stroke) AND (whether confirms previous stroke condition = yes) AND (age first told had a stroke = RESPONSE)) [((HeDiaa (Last int) = RESPONSE) AND (HeDiaa = 8)) OR ((HeDiaa (Last int) = 8) AND (HeDiaC = 1) AND (HeAgE (Last int) = RESPONSE))]*

**HEAGE\***

Approximately how old [^were you / was [^name]] when [^you were / he was / she was] first told by a doctor that [^you / he / she] had a stroke?

INTERVIEWER: Enter age in years.

Range: 0..110

**[CHECK HE29 - HE30]**

END OF FILTER

*IF ((type of CVD condition = stroke) AND (type of CVD condition at Last interview = RESPONSE)) [((HeDiaa = 8) AND (HeDiaa (Last int) = RESPONSE))]*

**HEAGER\***

When [^were you / was [^name]] first told by a doctor that [^you / he / she] had a stroke?

INTERVIEWER: Enter response in month and year

- 01 January
- 02 February
- 03 March
- 04 April
- 05 May
- 06 June
- 07 July

08 August  
09 September  
10 October  
11 November  
12 December

**HEAGERY\***

INTERVIEWER: Enter the year at this question.  
Range: 1900..2050

**[CHECK HE31 - HE32]**

END OF FILTER

*IF ((type of CVD condition at Last interview = RESPONSE) AND (type of CVD condition = stroke)) [((HeDiaa (Last int) = RESPONSE) AND (HeDiaa = 8))]*

**HENMST\***

How many strokes, if any, [<sup>^</sup>have you / has [<sup>^</sup>name]] had in the last 2 years, according to a doctor?

0 0  
1 1  
2 2  
3 3 or more

END OF FILTER

*IF (type of CVD condition = stroke) OR ((type of CVD condition at Last interview = stroke) AND (whether confirms previous stroke condition = yes)) [(HeDiaa = 8) OR ((HeDiaa (Last int) = 8) AND (HeDiaC = 1))]*

*IF whether recommended medication to lower BP <> RESPONSE [Hehibpb <> RESPONSE]*

**HEHIBPB1**

Some doctors suggest that some patients take medication to lower their blood pressure. Did a doctor or nurse ever suggest that you take any medication to lower your blood pressure?

1 Yes  
2 No

**[coded hehibpb1 in data]**

END OF FILTER

*If suggested medication for blood pressure <> no and taking medication for high blood pressure = empty and taking medication to prevent high blood pressure = empty [(Hehibpb1 <> No) AND (Hemda = EMPTY) AND (Hemdab = EMPTY)]*

**HEMDA1**

<sup>^</sup>Are you / Is name currently taking any medication, tablets or pills for high blood pressure?

1 Yes  
2 No

END OF FILTER

**HEPBS\***

[<sup>^</sup>Do you / Does [<sup>^</sup>name]] have any remaining problems because of [<sup>^</sup>your / his / her]

stroke(s)?

1 Yes

2 No

*IF whether any remaining problems because of stroke = yes [HePbs = 1]*

**HEWKS\***

[^Do you / Does [^name]] have weakness in [^your / his / her] arms and legs, or decreased ability to move or use them?

1 Yes

2 No

**HESPK\***

([^Do you / Does [^name]] have) any difficulty speaking or swallowing?

1 Yes

2 No

**HEVSI\***

([^Do you / Does [^name]] have) any difficulty with vision?

1 Yes

2 No

**HETHK\***

([^Do you / Does [^name]] have) any difficulty in thinking or finding the right words to say?

1 Yes

2 No

END OF FILTER

END OF FILTER

*IF (type of CVD condition = [angina, heart attack]) OR ((type of CVD condition at Last interview = [angina, heart attack]) AND ((whether confirms previous angina condition = yes) OR (whether confirms previous heart attack condition = yes))) [(HeDiaa = [2, 3]) OR (HeDiaa (Last int) = [2, 3]) AND ((HeDiaC = 1) OR (HeDiaC = 1))]*

**HEHRTA**

Some doctors suggest that some patients take anticoagulant or blood thinning medication. Did any doctor suggest that [^you / ^name]] take medication to thin [^your / his / her] blood such as warfarin or aspirin, Plavix, Ticlid, or other blood thinning medication?

1 Yes

2 No

*IF (whether advised to take blood thinning medication = Yes) OR (Whether is a proxy respondent = Yes) [Hehrta = 1 OR IAskPx = 1]*

**HEHRTB\***

[^Are you / Is [^name]] currently taking medication to thin [^your / his / her] blood like Warfarin, Aspirin, Plavix, Ticlid, or other medication to thin the blood?

1 Yes

2 No

END OF FILTER

*IF (whether taking blood thinning medication = Yes) [Hehrtb = 1]*

**HEHRTC**

[^Are you / Is [^name]] taking Warfarin?

- 1 Yes
- 2 No

*IF whether taking warfarin = yes [Hehrtc = 1]*

**HEHRTD**

Many doctors ask patients on Warfarin to get their blood tested regularly. The test checks how thin their blood is, and is sometimes called an INR test. [^Do you / Does [^name]] get [^your / his / her] blood checked for this?

- 1 Yes
- 2 No

*IF whether has INR test = yes [Hehrted = 1]*

**HEHRTE**

[^Have you / Has [^name]] had this blood test in the past 12 weeks?

- 1 Yes
- 2 No

*IF whether had INR test in past 12 weeks = yes [Hehrte = 1]*

**HEHRTF**

[^Have you / Has [^name]] had this blood test in the past 4 weeks?

- 1 Yes
- 2 No

END OF FILTER

END OF FILTER

END OF FILTER

END OF FILTER

END OF FILTER

*IF (((type of CVD condition = [angina, heart attack, diabetes])) OR (((type of CVD condition at Last interview = [angina, heart attack, diabetes])) AND ((whether confirms previous angina condition = yes) OR (whether confirms previous heart attack condition = yes) OR (whether confirms previous diabetes condition = yes)))) AND (type of CVD condition = high cholesterol) [(((HeDiaa = [2, 3, 7])) OR (((HeDiaa (Last int) = [2, 3, 7])) AND ((HeDiaC = 1) OR (HeDiaC = 1) OR (HeDiaC = 1)))) AND (HeDiaa = 9)]*

**HECHOL**

Has any doctor talked to you about how to lower your cholesterol? This would include changing your diet, losing weight, getting more exercise, or taking medication.

- 1 Yes
- 2 No

*IF whether advised how to lower cholesterol = yes [Hechol = 1]*

**HECHOLA**

Have you done any of these things to lower your cholesterol?

- 1 Yes

2 No

END OF FILTER

END OF FILTER

*If (CVD9 IN HeDiaa) OR (QHeDiaa[9].HeDiaS = Yes) THEN*

**HeChMd**

Are you / Is name currently taking any medication to lower your / his / her ^hisher cholesterol level?"

1 Yes

2 No

*ELSEIF ((QHeDiaa[9].HediaN = Nolong) OR (QHeDiaa[9].HediaS = No) OR (IFFW[PNum].Hechme = Yes)) AND (IAskPx[PNum] <> Yes) AND (HeChMd<>RESPONSE)*

**HeChMe**

Can I just check, are you / is name taking medication which prevents you from getting high cholesterol any more?

1 Yes

2 No

END OF FILTER

**HEScre @**

I would like to ask you about any screening you may have had to check for different types of cancer.

1 Press <1> and <Enter> to continue.

**HEBowC**

Have you ever completed a home testing kit for screening bowel cancer?

1 Yes

2 No

*IF [HEBowC = yes]*

**HEYBowT**

How long ago was your most recent test? (ENTER YEAR)

RANGE: 1900 - 2011

**HEMBowT**

How long ago was your most recent test? (ENTER MONTH)

**HEBowP**

Was this test part of the NHS Bowel Cancer Screening Programme?

1 Yes

2 No

END OF FILTER

*IF sex = female*

**HEMam**

Have you ever had a mammogram (x-ray of your breasts)?

- 1 Yes
- 2 No

*IF HEMam = yes*

**HEYMamT**

How long ago was your most recent mammogram? (ENTER YEAR)  
RANGE: 1900 – 2011

**HEMMamT**

How long ago was your most recent mammogram? (ENTER MONTH)

**HEMamR**

What was the reason for your most recent mammogram?

- 1 Routine screening by the NHS Breast Screening Programme
- 2 Non-routine referral to the NHS
- 3 Private examination
- 4 NHS screening owing to a family history of breast cancer
- 5 Follow-up after breast cancer treatment

*END FILTER*

*ELSE IF sex = male*

**HEPro**

Have you ever had a prostate-specific antigen (PSA) blood test or other examination to screen for prostate cancer?

- 1 Yes
- 2 No

*IF HEPro = yes*

**HEYProT**

How long ago was your most recent PSA test or other examination? (ENTER YEAR)  
RANGE: 1900 – 2011

**HEMProT**

How long ago was your most recent PSA test or other examination? (ENTER MONTH)

*END FILTER*

*END FILTER*

*IF ((type of chronic condition = RESPONSE) AND NOT (type of chronic condition at Last interview = none)) [((HeDiab (Last int) = RESPONSE) AND NOT (HeDiab (Last int) = 96))]*

*LOOP FOR Idx:= 1 TO 9*

*IF type of chronic condition at Last interview = Idx [HeDiab (Last int) = Idx]*

**HEDIAD@\***

INTERVIEWER: Please check the following sentence before reading out loud.

[^BLANK / Our records show that when we last interviewed [^you / [^name]] on [^date of last interview] [^you / he / she] said that [^you / he / she] had had (or had been told by a doctor [^you / he / she] had had) / Our records also show that when we last interviewed [^you / [^name]] on [^date of interview] [^you / he / she] said that [^you / he / she] had had (or had been told by a doctor [^you / he / she] had had)] ^chronic lung disease such as

chronic bronchitis or emphysema / asthma / arthritis / osteoporosis, sometimes called thin or brittle bones / cancer or a malignant tumour / Parkinson's disease / an emotional, nervous or psychiatric problem / Alzheimer's disease / dementia, senility or another serious memory impairment].

INTERVIEWER: Code 1 below unless respondent spontaneously disputes this record.

1 Yes

2 No

3 Not read out as didn't make sense

**[There is a separate variable for responses about each of the type of illness]**

**[Responses are recoded in: hedbdlu hedbdas hedbdar hedbdos hedbdca hedbdpd hedbdps hedbdad hedbdde hedbdb]**

*If whether confirms previous chronic condition = no [HeDiaD = 2]*

**HEDIAM@\***

INTERVIEWER: Code reason why respondent disputes having had [^chronic lung disease such as chronic bronchitis or emphysema / asthma / arthritis / osteoporosis, sometimes called thin or brittle bones / cancer or a malignant tumour / Parkinson's disease / an emotional, nervous or psychiatric problem / Alzheimer's disease / dementia, senility or another serious memory impairment]. Respondent says...

1 Never diagnosed

2 No longer has

3 Did not have previously, but has now

4 Misdiagnosed

**[There is a separate variable for responses about each of the type of illness]**

**[Responses are recoded in: hedbmlu, hedbmas, hedbmar, hedbmos, hedbmca, hedbmpd, hedbmpd, hedbmpe, hedbmad, hedbmde, hedbmbl]**

*If HeDiaM = NoLong or HasNow*

**HeDiaMX@**

INTERVIEWER: Did respondent have this condition at the time of the last interview?  
If yes, go to HeDiaD and code 1 (Yes).

END OF FILTER

ELSE

*If whether confirms previous chronic condition = yes [HeDiaD = 1]*

**HEDIDS@\***

[^Do you / Does [^name]] still have [^chronic lung disease such as chronic bronchitis or emphysema / asthma / arthritis / osteoporosis, sometimes called thin or brittle bones / cancer or a malignant tumour / Parkinson's disease / an emotional, nervous or psychiatric problem / Alzheimer's disease / dementia, senility or another serious memory impairment]

Interviewer: If the respondent says that the condition is controlled by treatment code 'Yes'.?

1 Yes

2 No

**[There is a separate variable for responses about each of the type of illness]**

**[Responses to HEDIDSare recoded in: hedblu hedbsas hedbsar hedbsos hedbsca hedbspd, hedbsde, hedbsbl]**

END OF FILTER  
END OF FILTER  
END OF FILTER  
END OF FILTER  
END OF FILTER

**HEDIAB@\***

**SHOW CARD**

[^Has / Apart from what you have already told us, and thinking about what has happened since we last saw [^you / [^name]] on [^date of last interview] has / Thinking about what has happened since we last saw [^you / [^name]] on [^date of last interview] has] a doctor [^BLANK / ever] told [^you / [^name]] that [^you have / he has / she has] (or had) any of the [^BLANK / other] conditions on this card?

INTERVIEWER: PROBE - 'What others?'...Code all that apply.

- 01 [^Chronic lung disease such as chronic bronchitis or emphysema]
- 02 [^Asthma]
- 03 [^Arthritis (including osteoarthritis , or rheumatism)]
- 04 [^Osteoporosis, sometimes called thin or brittle bones]
- 05 [^Cancer or a malignant tumour (excluding minor skin cancers)]
- 06 [^Parkinson's disease]
- 07 [^Any emotional, nervous or psychiatric problems]
- 08 [^Alzheimer's disease]
- 09 [^Dementia, senility or another serious memory impairment]
- 10 Malignant blood disorder, e.g. leukaemia
- 96 None of these

**[Multiple responses to HEDIAB are recoded in variables: hediblu hedibas hedibar hedibos hedibca hedibpd hedibps hedibad hedibbl hedib96]  
[code maximum 9 out of 10 possible responses]**

**[CHECK HE33 - HE34]**

*IF ((type of chronic condition at Last interview = chronic lung disease) AND (whether confirms previous chronic condition = yes)) OR (type of chronic condition = chronic lung disease) [((HeDiab (Last int) = 1) AND (HeDiaD = 1)) OR (HeDiab = 1)]*

**HELNG\***

[^Are you / Is [^name]] taking medication or other treatment for [^your / his / her] lung condition?

- 1 Yes
- 2 No

IF disputed chronic lung condition (Hediam) = no longer or still have chronic lung disease (HeDids) = No or was taking lung disease medication at previous wave (and IAskPx[PNum] <> Yes)

**HeLngB**

Can I just check, ^are / is ^you / name taking medication which prevents ^him / her from getting chronic lung disease, such as chronic bronchitis or emphysema, any more?

- 1 Yes
- 2 No

| END OF FILTER

END OF FILTER

*IF ((type of chronic condition at Last interview = asthma) AND (whether confirms previous chronic condition = yes)) OR (type of chronic condition = asthma) [((HeDiab (Last int) = 2) AND (HeDiaD = 1)) OR (HeDiab = 2)]*

**HEAMA\***

[^Are you / Is [^name]] taking medication or other treatment for [^your / his / her] asthma?

- 1 Yes
- 2 No

*IF (disputes chronic lung disease = no longer has or still has chronic lung disease = no) [((QHeDiab[2].HediaM = Nolong) OR (QHeDiab[2].HedidS = No))]*

**HeAmb**

Can I just check, [^are/is] [^you/name] taking medication which prevents [^him/her] from getting asthma any more?

- 1 Yes
- 2 No

| END OF FILTER

END OF FILTER

*IF type of chronic condition = arthritis = [HeDiab = 3]*

**HEART@\***

May I check, which type or types of arthritis [^do you / does [^name]] have...

INTERVIEWER: Read out each in turn and code all that apply....

- 1 Osteoarthritis?
- 2 Rheumatoid arthritis?
- 3 Some other kind of arthritis?

***[Multiple responses to HEART are recoded in variables: heartoa heartra heaartot]  
[code maximum 3 out of 3 possible responses]***

*IF ((type of chronic condition at Last interview <> RESPONSE) AND (type of chronic condition | = arthritis)) OR ((type of chronic condition at Last interview = arthritis) AND (whether confirms previous chronic condition = yes) AND (age first told had arthritis at Last interview<> RESPONSE))*

*[((HeDiab (Last int) <> RESPONSE) AND (HeDiab = 3)) OR ((HeDiab (Last int) = 3) AND (HeDiaD = 1) AND (HeAgf (Last int) <> RESPONSE))]*

**HEAGF\***

Approximately how old [^were you / was [^name]] when [^you were / he was / she was] first told by a doctor that [^you / he / she] had arthritis?

INTERVIEWER: Enter age in years.

Range: 0..110

***[CHECK HE35]***

| ELSE

*IF ((type of chronic condition = arthritis) AND (type of chronic condition = RESPONSE))  
AND NOT (type of chronic condition at Last interview = arthritis) [((HeDiab = 3) AND*

*(HeDiab*

*(Last int) = RESPONSE)) AND NOT (HeDiab (Last int) = 3)]*

**HEAGFR\***

When [^were you / was [^name]] first told by a doctor that [^you / he / she] had arthritis?

INTERVIEWER: Enter response in month and year.

- 01 January
- 02 February
- 03 March
- 04 April
- 05 May
- 06 June
- 07 July
- 08 August
- 09 September
- 10 October
- 11 November
- 12 December

**HEAGFRY\***

INTERVIEWER: Enter the year at this question.

Range: 1900..2050

**[CHECK HE36 - HE37]**

END OF FILTER

END OF FILTER

END OF FILTER

*IF (type of arthritis = osteoarthritis) OR ((type of arthritis at Last interview = osteoarthritis) AND (type of chronic condition at Last interview = arthritis) AND (whether confirms previous chronic condition = yes)) [(HeArt = 1) OR ((HeArt (Last int) = 1) AND (HeDiab (Last int) = 3) AND (HeDiaD = 1))]*

**HEARTA**

Has any doctor or nurse ever talked to you about...

What your arthritis or joint pain will be like as time goes on?

- 1 Yes
- 2 No

**HEARTB**

(Has any doctor or nurse ever talked to you about...)

How to keep your arthritis or joint pain from getting worse?

- 1 Yes
- 2 No

**HEARTC**

(Has any doctor or nurse ever talked to you about...)

How your arthritis or joint pain will be treated?

- 1 Yes

2 No

*IF whether told how arthritis pain will be treated = yes [HeArtc = 1]*

**HEARTD**

(Has any doctor or nurse ever talked to you about...)

what the specific purpose of the treatment for your arthritis or joint pain is?

1 Yes

2 No

END OF FILTER

**HEARTE**

Some doctors suggest trying paracetamol as the first medication for arthritis or joint pain.

Did any doctor or nurse recommend you try paracetamol before other medicines for your joint pain?

1 Yes

2 No

END OF FILTER

If current chronic health condition = malignant blood disorder or (answered HeLeuk in previous wave and confirming previous malignant blood disorder = yes and not a proxy interview)

IF (MalBlood IN HeDiab) OR (IFFW[PNum].HeLeuk <> RESPONSE AND QHeDiab[10].hediad = Yes AND IAskPx[PNum] <> Yes) THEN

**HeLeuk**

^[Do you / Does name]have one of the following blood disorders...

INTERVIEWER: Read out...

1 ...leukaemia,

2 ...lymphoma,

3 or some other blood disorder?

END OF FILTER

*IF ((type of chronic condition at Last interview = osteoporosis) AND (whether confirms previous chronic condition = yes)) OR (type of chronic condition = osteoporosis) [((HeDiab (Last int) = 4) AND (HeDiaD = 1)) OR (HeDiab = 4)]*

**HEOSTE**

Has any doctor or nurse recommended taking calcium pills or Vitamin D?

1 Yes

2 No

*If (whether advised to take calcium/vit D pills = Yes) OR (Whether is a proxy respondent = Yes) [(HeOste = 1) OR (IAskPx = 1)]*

**HEOSTEA\***

^[^Do you / Does [^name]] take calcium pills or Vitamin D for [^your / his / her] osteoporosis or 'thin bones'?

1 Yes

2 No

END OF FILTER

**HEOSTEB**

Did a doctor or nurse recommend treatment with medication for [^you / his / her] osteoporosis or 'thin bones'?

1 Yes  
2 No

*IF whether recommended osteoporosis medication = yes [HeOsteb = 1]*

**HEOSTEC**

Did [^you / [^name]] take any of them?

1 Yes  
2 No

**HEOSTED**

Were these medicines recommended within 3 months of a doctor telling you that you had osteoporosis?

1 Yes  
2 No

END OF FILTER

END OF FILTER

*IF ((type of chronic condition at Last interview <> RESPONSE) AND (type of chronic condition = cancer)) OR ((type of chronic condition at Last interview = cancer) AND (whether confirms previous chronic condition = yes) AND (age first told had cancer at Last interview <> RESPONSE)) [((HeDiab (Last int) <> RESPONSE) AND (HeDiab = 5)) OR ((HeDiab (Last int) = 5) AND (HeDiaD = 1) AND (HeAgg (Last int) <> RESPONSE))]*

**HEAGG\***

Approximately how old [^were you / was [^name]] when [^you were / he was / she was] first told by a doctor that [^you / he / she] had cancer or a malignant tumour?

INTERVIEWER: Enter age in years.  
Range: 0..110

**[CHECK HE38 - HE39]**

ELSE

*IF ((type of chronic condition = cancer) AND (type of chronic condition at Last interview = RESPONSE) AND NOT (type of chronic condition at Last interview = cancer)) [((HeDiab = 5) AND (HeDiab (Last int) = RESPONSE) AND NOT (HeDiab (Last int) = 5))]*

**HEAGGR\***

When in the last two years [^were you / was [^name]] first told by a doctor that [^you / he / she] had cancer or a malignant tumor?

INTERVIEWER: Enter response in month and year. Enter month here.

01 January  
02 February  
03 March  
04 April  
05 May  
06 June  
07 July

08 August  
09 September  
10 October  
11 November  
12 December

**HEAGGRY\***

INTERVIEWER: Enter the year at this question.

Range: 1900..2050

IF blood disorders = leukaemia or lymphoma IF (HeLeuk = Leukaemia or Lymphoma)

**HeAgK**

told | | | Approximately how old ^[were you / was name] when ^[you / he/ she] ^[were / was] first  
by a doctor that ^[you / he/ she] had leukaemia or lymphoma?

INTERVIEWER: Enter age in years.

Range: 0..110

**HeAgKR**

that | | | When ^[were you / was name] when ^[you / he/ she] ^[were / was] first told by a doctor  
that | | | ^[you / he/ she] had leukaemia or lymphoma?

INTERVIEWER: Enter response in month and year.

Enter month here."

**HeAgKRY**

INTERVIEWER: Enter the year at this question.

Range: 1900..2050

END OF FILTER

**[CHECK HE40 - HE41]**

END OF FILTER

END OF FILTER

*IF type of chronic condition = cancer [HeDiab = 5]*

**HECANAA\***

SHOW CARD J

In which part of [^your / ^name's] body did [^your / his / her] (cancer / cancers / malignant tumour) start?

INTERVIEWER: Code one only.

- 1 Lung
- 2 Breast
- 3 Colon, bowel or rectum
- 4 Lymphoma
- 5 Leukaemia
- 6 Melanoma or other skin cancer
- 7 Prostate
- 95 Somewhere else

**HECANB\***

During the last two years [^have you / has [^name]] received any treatment for [^your / his / her] cancer?

- 1 Yes

2 No

END OF FILTER

IF blood disorders = leukaemia or lymphoma or (had blood disorders at previous wave = leukaemia or lymphoma and still has malignant blood disorders <> no longer and <> misdiagnosed and not a proxy interview

IF ((IW1HeLeuk IN [Leukaemia,Lymphoma]) OR ((IFFW[PNum].HeLeuk IN [Leukaemia,Lymphoma]) AND QHeDiab[10].HeDiaM <> NoLong AND QHEDIab[10].HEdiaM <> Misdiag AND (IAskPx[PNum] <> Yes))

**HeCanbb**

During the last two years, ^havehas[pnum] ^youname[pnum] received any treatment for ^hisher[pnum] leukaemia or lymphoma?"

1 Yes

2 No

END OF FILTER

IF ((type of chronic condition <> RESPONSE) AND (type of chronic condition = Parkinson's disease)) OR ((type of chronic condition at Last interview = Parkinson's disease) AND (whether confirms previous chronic condition = yes) AND (age first told had Parkinson's disease <> RESPONSE)) [((HeDiab (Last int) <> RESPONSE) AND (HeDiab = 6)) OR ((HeDiab (Last int) = 6) AND (HeDiaD = 1) AND (HePrk <> RESPONSE))]

**HEPRK\***

Approximately how old [^were you / was [^name]] when [^you were / he was / she was] first told by a doctor that [^you / he / she] had Parkinson's disease?

INTERVIEWER: Enter age in years.

Range: 0..110

**[CHECK HE42 - HE43]**

ELSE

IF ((type of chronic condition = Parkinson's disease) AND (type of chronic condition at Wave 1 = RESPONSE) AND NOT (type of chronic condition at Last interview = Parkinson's disease)) [((HeDiab = 6) AND (HeDiab (Last int) = RESPONSE) AND NOT (HeDiab (Last interview) = 6))]

**HEPRKR\***

When [^were you / was [^name]] first told by a doctor that [^you / he / she] had Parkinson's disease?

INTERVIEWER: Enter response in month and year.

01 January

02 February

03 March

04 April

05 May

06 June

07 July

08 August

09 September

10 October

11 November

12 December

**HEPRKRY\***

INTERVIEWER: Enter the year at this question.

Range: 1900..2050

**[CHECK HE44 - HE45]**

END OF FILTER

END OF FILTER

*IF ((type of chronic condition at Last interview <> RESPONSE) AND (type of chronic condition = psychiatric problems)) OR ((type of chronic condition at Last interview = psychiatric problems) AND (whether confirms previous chronic condition = yes) AND (age first told had psychiatric problems at Last interview <> RESPONSE))(((HeDiab (Last int) <> RESPONSE) AND (HeDiab = 7)) OR ((HeDiab (Last int) = 7) AND (HeDiaD = 1) AND (HeAgh (Last int) <> RESPONSE)))*

**HEAGH\***

Approximately how old [<sup>^</sup>were you / was [<sup>^</sup>name]] when [<sup>^</sup>you were / he was / she was] first told by a doctor that [<sup>^</sup>you / he / she] had emotional, nervous or psychiatric problems?

INTERVIEWER: Enter age in years.

Range: 0..110

**[CHECK HE46]**

END OF FILTER

*IF ((type of chronic condition = psychiatric problems) AND (type of chronic condition at Last interview = RESPONSE)) (((HeDiab = 7) AND (HeDiab (Last int) = RESPONSE)))*

**HEAGHR\***

When [<sup>^</sup>were you / was [<sup>^</sup>name]] told by a doctor that [<sup>^</sup>you / he / she] had emotional, nervous or psychiatric problems?

INTERVIEWER: Enter response in month and year.

01 January

02 February

03 March

04 April

05 May

06 June

07 July

08 August

09 September

10 October

11 November

12 December

**HEAGHRY\***

INTERVIEWER: Enter the year at this question.

Range: 1900..2050

**[CHECK HE47 - HE48]**

END OF FILTER

*IF type of chronic condition = psychiatric problems [HeDiab = 7]*

**HEPSY@\***

SHOW CARD K

What type of emotional, nervous or psychiatric problems [^do (did) you / does (did) [^name]] have?

INTERVIEWER: PROBE - 'What others?'

Code all that apply.

Include panic attacks under 'anxiety'

1 Hallucinations

2 Anxiety

3 Depression

4 Emotional problems

5 Schizophrenia

6 Psychosis

7 Mood swings

8 Manic depression

95 Something else

**[Multiple responses to HEPSY are recoded in variables: hepsyha hepsyhan hepsyde hepsyem hepsysc hepsyps hepsymo hepsyma hepsy95]****[code maximum 9 out of 9 possible responses]**

END OF FILTER

*IF ((type of chronic condition at Last interview <> RESPONSE) AND (type of chronic condition = psychiatric problems)) OR ((type of chronic condition at Last interview = psychiatric problem) AND (whether confirms previous psychiatric condition = yes) AND NOT (type of chronic condition = psychiatric problems))(((HeDiab (Last int) <> RESPONSE) AND (HeDiab = 7)) OR ((HeDiab (Last int) = 7) AND (HeDiaD = 1) AND NOT (HeDiab = 7)))*

**HEYRC\***

During the last two years [^have you / has [^name]] had emotional, nervous or psychiatric problems?

1 Yes

2 No

END OF FILTER

*IF ((type of chronic condition at Last interview <> RESPONSE) AND (type of chronic condition = Alzheimer's)) OR ((type of chronic condition at Last interview = Alzheimer's) AND (whether confirms previous psychiatric problem = yes) AND (age first told had Alzheimer's at Last interview = RESPONSE))(((HeDiab (Last int) <> RESPONSE) AND (HeDiab = 8)) OR ((HeDiab (Last int) = 8) AND (HeDiaD = 1) AND (HeAgi (Last int) <> RESPONSE)))*

**HEAGI\***

Approximately how old [^were you / was [^name]] when [^you were / he was / she was] first told by a doctor that [^you / he / she] had Alzheimer's Disease?

INTERVIEWER: Enter age in years.

Range: 0..110

**[CHECK HE49 - HE50]**

ELSE

*IF ((type of chronic condition = Alzheimer's) AND (type of chronic condition = RESPONSE) AND NOT (type of chronic condition at Last interview = Alzheimer's))(((HeDiab = 8) AND*

(HeDiab | (Last int) = RESPONSE) AND NOT (HeDiab (Last int) = 8))]

**HEAGIR\***

When [^were you / was [^name]] told by a doctor that [^you / he / she] had Alzheimer's Disease?

INTERVIEWER: Enter response in month and year.

01 January

02 February

03 March

04 April

05 May

06 June

07 July

08 August

09 September

10 October

11 November

12 December

**HEAGIRY\***

INTERVIEWER: Enter the year at this question.

Range: 1900..2050

**[CHECK HE51 - HE52]**

END OF FILTER

END OF FILTER

*IF ((type of chronic condition at Last interview <> RESPONSE) AND (type of chronic condition = memory impairment)) OR ((type of chronic condition at Last interview = memory impairment) AND (whether confirms previous chronic condition = yes) AND (age first told had memory impairment at Last interview <> RESPONSE))(((HeDiab (Last int) <> RESPONSE) AND (HeDiab = 9)) OR ((HeDiab (Last int) = 9 AND (HeDiaD = 1) AND (HeAgj (Last int) <> RESPONSE)))*

**HEAGJ\***

Approximately how old [^were you / was [^name]] when [^you were / he was / she was] first told by a doctor that [^you / he / she] had dementia, senility or any other serious memory impairment?

INTERVIEWER: Enter age in years.

Range: 0..110

**[CHECK HE53 - HE54]**

ELSE

*IF ((type of chronic condition = memory impairment) AND (type of chronic condition at Wave 1 = RESPONSE) AND NOT (type of chronic condition at Last interview = memory impairment)) (((HeDiab = 9) AND (HeDiab (Last int) = RESPONSE) AND NOT (HeDiab (Last int) = 9))*

**HEAGJR\***

When in the last two years [^were you / was [^name]] first told by a doctor that [^you / he / she] had dementia, senility or any other serious memory impairment?

INTERVIEWER: Enter the response as month and year.

Enter the month at this question.

- 01 January
- 02 February
- 03 March
- 04 April
- 05 May
- 06 June
- 07 July
- 08 August
- 09 September
- 10 October
- 11 November
- 12 December

**HEAGJRY\***

INTERVIEWER: Enter the year at this question.

Range: 1900..2050

**[CHECK HE55 - HE56]**

END OF FILTER

END OF FILTER

**IF (Age of respondent >= 60) [IAgeOf >= 60]**

**HEFLA**

[^Have / Since we last talked to you on [^date of last interview] have] you fallen down [^BLANK / in the last two years] (for any reason)?

- 1 Yes
- 2 No

*IF whether fallen down = yes [HeFla = 1]*

**HEFLB**

How many times have you fallen down [^since we last talked to you on [^date of last interview]/ in the last two years]?

Range: 0..400

**[CHECK HE57]**

**HEFLC**

In [^any of these falls / that fall], did you injure yourself seriously enough to need medical treatment?

- 1 Yes
- 2 No

END OF FILTER

END OF FILTER

**HEFRAC**

Have you [^BLANK / ever] fractured your hip since we last talked to you on [^date of last interview]?

- 1 Yes

2 No

*IF person's age >= 60 [!AgeOf >= 60]*

**HEJI\***

[^Have you / Has [^name]] [^BLANK / ever] had any joint replacements since we last talked to [^you / him / her] on [^date of last interview]?

1 Yes

2 No

*IF whether had joint replacements = yes [HeJi = 1]*

**HEJIA@\***

Which joints did [^you / [^name]] have replaced?

INTERVIEWER: PROBE - 'What others?'

Code all that apply.

1 Hip

2 Both hips

3 Knee

4 Both knees

5 Hips(s) and knee(s)

6 Other joint

***[Multiple responses to HEJIA are recoded in variables HEJIAA1 to HEJIAA5]***

***[code maximum 6 out of 6 possible responses]***

*IF joints replaced = [hip, both hips, hip and knee] [HeJia = [1, 2, 5]*

**HEJIB@\***

Was / Were the hip replacement(s) because of arthritis, a fracture or for some other reason?

1 Arthritis

2 Fracture

3 Both arthritis and a fracture

95 Other reason

***[Multiple responses to HEJIB are recoded in variables hejibrh hejiblh hejibrk hejiblk]***

END OF FILTER

*IF joints replaced = [hip, both hips, knee, both knees, hip and knee, other joint] [HeJia = RESPONSE]*

**HEJION\***

Has ^yourname[PNum] joint replacement/resurfacing been paid for privately or by the NHS?

INTERVIEWER: Count as NHS if the operation was on private premises but paid for by the NHS. Count as private if the operation was on NHS premises but paid for privately. Include all joint replacement operations if respondent has had more than one.

1 Privately/under insurance

2 NHS

3 SPONTANEOUSLY: Both

END OF FILTER

END OF FILTER

END OF FILTER

**HEIQA\*\***

**SHOW CARD C9**

Now we want you to remember what [^name] was like [^two years ago / when we last talked to you on [^date of last interview]] and to compare it with what [^he / she] is like now.

[^BLANK / Two years ago was in 2002]. I will read out situations where [^name] has to use [^his / her] memory or intelligence and we want you to indicate whether this has improved, stayed the same or got worse in that situation [^over the past two years / since [^date of last interview]].

Note the importance of comparing [^name's] present performance with [^two years ago / when we last talked to you on [^date of last interview]]. So if [^two years ago / when we last talked to you on [^date of last interview]] [^name] always forgot where [^he / she] had left things, and [^he / she] still does, then this would be considered 'Hasn't changed much'.

Please indicate the changes you have observed giving the appropriate answer from the card.

1 Press <1> and <Enter> to continue

2 Unable to answer - does not know what the person was like two years ago

[Don't Know and Refusal are not allowed]

*IF whether can answer questions about participant's memory = continue [Heiqa = 1]*

**HEIQB\*\***

**SHOW CARD C9**

Compared with two years ago, how is [^name] at remembering things about family and friends, like occupations, birthdays or addresses?

- 1 Much improved
- 2 A bit improved
- 3 Not much change
- 4 A bit worse
- 5 Much worse

**HEIQC\*\***

**SHOW CARD C9**

Compared with two years ago, how is [^name] at remembering things that have happened recently?

- 1 Much improved
- 2 A bit improved
- 3 Not much change
- 4 A bit worse
- 5 Much worse

**HEIQD\*\***

**SHOW CARD C9**

Compared with two years ago, how is [^name] at recalling conversations a few days later?

- 1 Much improved
- 2 A bit improved
- 3 Not much change
- 4 A bit worse
- 5 Much worse

**HEIQE\*\***

**SHOW CARD C9**

Compared with two years ago, how is [^name] at remembering [^his / her] address and

telephone number?

- 1 Much improved
- 2 A bit improved
- 3 Not much change
- 4 A bit worse
- 5 Much worse

**HEIQF\*\***

SHOW CARD C9

Compared with two years ago, how is [^name] at remembering what day and month it is?

- 1 Much improved
- 2 A bit improved
- 3 Not much change
- 4 A bit worse
- 5 Much worse

**HEIQG\*\***

SHOW CARD C9

Compared with two years ago, how is [^name] at remembering where things are usually kept?

- 1 Much improved
- 2 A bit improved
- 3 Not much change
- 4 A bit worse
- 5 Much worse

**HEIQH\*\***

SHOW CARD C9

Compared with two years ago, how is [^name] at remembering where to find things which have been put in a different place from usual?

- 1 Much improved
- 2 A bit improved
- 3 Not much change
- 4 A bit worse
- 5 Much worse

**HEIQI\*\***

SHOW CARD C9

Compared with two years ago, how is [^name] at knowing how to work familiar machines around the house?

- 1 Much improved
- 2 A bit improved
- 3 Not much change
- 4 A bit worse
- 5 Much worse

**HEIQJ\*\***

SHOW CARD C9

Compared with two years ago, how is [^name] at learning to use a new gadget or machine around the house?

- 1 Much improved
- 2 A bit improved
- 3 Not much change
- 4 A bit worse
- 5 Much worse

**HEIQK\*\***

SHOW CARD C9

Compared with two years ago, how is [^name] at learning new things in general?

- 1 Much improved
- 2 A bit improved
- 3 Not much change
- 4 A bit worse
- 5 Much worse

**HEIQL\*\***

SHOW CARD C9

Compared with two years ago, how is [^name] at following a story in a book or on TV?

- 1 Much improved
- 2 A bit improved
- 3 Not much change
- 4 A bit worse
- 5 Much worse

**HEIQM\*\***

SHOW CARD C9

Compared with two years ago, how is [^name] at making decisions on everyday matters?

- 1 Much improved
- 2 A bit improved
- 3 Not much change
- 4 A bit worse
- 5 Much worse

**HEIQN\*\***

SHOW CARD C9

Compared with two years ago, how is [^name] at handling money for shopping?

- 1 Much improved
- 2 A bit improved
- 3 Not much change
- 4 A bit worse
- 5 Much worse

**HEIQO\*\***

SHOW CARD C9

Compared with two years ago, how is [^name] at handling financial matters, like the pension or dealing with the bank?

- 1 Much improved
- 2 A bit improved
- 3 Not much change
- 4 A bit worse
- 5 Much worse

**HEIQP\*\***

SHOW CARD C9

Compared with two years ago, how is [^name] at handling other everyday arithmetic problems, like knowing how much food to buy, or knowing how long between visits from family or friends?

- 1 Much improved
- 2 A bit improved
- 3 Not much change
- 4 A bit worse

5 Much worse

**HEIQQ\*\***

SHOW CARD C9

Compared with two years ago, how is [^name] at using intelligence to understand what's going on and to reason things through?

- 1 Much improved
- 2 A bit improved
- 3 Not much change
- 4 A bit worse
- 5 Much worse

END OF FILTER

**HEPAIN**

Are you often troubled with pain?

- 1 Yes
- 2 No

*IF whether often troubled with pain = yes [HePain = 1]*

**HEPAA**

How bad is the pain most of the time? Is it...

INTERVIEWER: Read out...

INTERVIEWER: Include people who experience intermittent pain often.

- 1 mild,
- 2 moderate,
- 3 or, severe

*IF pain is moderate or severe most of the time = yes [HePaa = 2,3]*

**HEPAG**

How long has the pain been bothering you? Has it been...

- 1 less than 3 months
- 2 more than 3 months, but less than 6 months
- 3 more than 6 months, but less than 12 months
- 4 or more than 12 months?

*IF length of time pain has been bothering = less than 12 months [HePag = 1,2,3]*

**HEPAJ**

Are you currently receiving any treatment for your pain?

- 1 Yes
- 2 No

*IF currently receiving treatment for pain [HePaj = Yes]*

**HEPAK3**

How well does the treatment control your pain?

INTERVIEWER: Read out...

- 1 Very well
- 2 Fairly well
- 3 Not very well
- 4 Not at all

END OF FILTER

END OF FILTER

END OF FILTER

**HePaWh@**

SHOW CARD C10

In which parts of the body do you feel pain?

CODE ALL THAT APPLY."

- 1 Back
- 2 Hips
- 3 Knees
- 4 Feet
- 5 Mouth/teeth
- 6 Other
- 7 All over

**[Multiple responses to HePaWh are recoded in variables hepawba hepawhi hepawkn hepawfe hepawmo hepawot hepawal]**

**HEPAB**

How would you rate your pain if you were walking on a flat surface?

Please rate your pain from 0-10 for each of the following where 0 is no pain and 10 is severe or excruciating pain, as bad as you can imagine.

- 1 Press <1> and enter to continue
- 2 Can't walk or never walks

IF rating pain when walking = can't walk (HEPab = CantW)

**HePab1**

Interviewer check whether ever walks on a flat surface – include across their room at home, even if they only walk very slowly. Only code 1 if they say no

- 1 Confirms never walks or cannot walk
- 2 Does sometimes walk on a flat surface

END OF FILTER

*IF rating pain when walking = continue [HePab = 1]*

**HEBCK**

(How would you rate the pain) in your back?

PROMPT IF NECESSARY: 'Where 0 is no pain and 10 is severe or excruciating pain, as bad as you can imagine'.

Range: 0..10

**HEHIP**

(How would you rate the pain) in your hips?

PROMPT IF NECESSARY: 'Where 0 is no pain and 10 is severe or excruciating pain, as bad as you can imagine'.

Range: 0..10

**HEKNE**

(How would you rate the pain) in your knees?

PROMPT IF NECESSARY: 'Where 0 is no pain and 10 is severe or excruciating pain, as bad as you can imagine'.

Range: 0..10

**HEFET**

(How would you rate the pain) in your feet?

PROMPT IF NECESSARY: 'Where 0 is no pain and 10 is severe or excruciating pain, as bad as you can imagine'.

Range: 0..10

END OF FILTER

END OF FILTER

*IF (knee pain rating = [1 .. 10] AND (type of arthritis = osteoarthritis)*

**HEKNEA**

How long has the pain in your knee been bothering you? Has it been...

- 1 less than 3 months,
- 2 more than 3 months but less than 6 months,
- 3 more than 6 months, but less than 12 months,
- 4 or more than 12 months?

*IF length of knee pain = more than 3 months [HeKnea = 2 - 4]*

**HEKNEB**

Has a doctor or nurse suggested physiotherapy or that you attend a supervised exercise program for your knee pain?

- 1 Yes
- 2 No

*IF whether exercise / physiotherapy has been recommended for knee pain = yes  
[HeKneb = 1]*

**HEKNEC**

Did you see a physiotherapist or attend a supervised exercise program for your knee pain?

- 1 Yes
- 2 No

END OF FILTER

END OF FILTER

END OF FILTER

*IF length of knee pain = more than 6 months and (type of arthritis = osteoarthritis) and knee pain rating = 6 or above. [IF HeKnea IN moresi..moretw and Osteo in HeArt and HeKne > 5. ]*

**HeKned**

Have you done any other type of exercise to control your knee pain?"

- 1 Yes
- 2 No

END OF FILTER

*If knee pain rating = 6 or above or hip pain rating = 6 or above and type of arthritis = osteoarthritis and hip pain rating = 6 or above*

**HeHipA**

How long has the pain in your hips been bothering you? Has it been..."

- 1 less than 3 months,
- 2 more than 3 months but less than 6 months,
- 3 more than 6 months, but less than 12 months,
- 4 or more than 12 months?

**HeHipB**

Have you done any exercise to control your hip pain?

INTERVIEWER: This includes both supervised and unsupervised exercise.

- 1 Yes
- 2 No

*If done exercise for hip pain = 1 [If HeHipB = 1]*

**HePMed**

Are you taking any medication for your ^[knee / hip] pain?

- 1 Yes
- 2 No

**HeKneF@**

Does your treatment, whether medication or exercise, control your knee pain?

- 1 Yes
- 2 No

**HeHipC**

Does your treatment, whether medication or exercise, control your hip pain?

- 1 Yes
- 2 No

*If taking medication for knee / hip pain = no [IF HePMed = 2]*

**HepSur@**

Has a doctor or surgeon recommended that you should have surgery or joint replacement?

- 1 Yes
- 2 No

*If surgery recommended = yes If HepSur = 1*

**HepOrth@**

Did you see an orthopaedic specialist?

- 1 Yes
- 2 No

END OF FILTER

END OF FILTER

END OF FILTER

END OF FILTER

**HEANINT@**

I am now going to ask you some questions mainly about symptoms of the chest.

1 Press <1> and <Enter> to continue.

**HeAnk**

Have you ever had a severe pain across the front of your chest lasting for half an hour or more?

1 Yes

2 No

**HEANA**

Have you ever had any pain or discomfort in your chest?

1 Yes

2 No

*IF whether ever had pain or discomfort in chest = yes [HeAna = 1]*

**HEANB**

Do you get it when you walk uphill or hurry?

1 Yes

2 No

3 Sometimes / Occasionally

4 Never walks uphill or hurries

5 Cannot walk

*IF whether has pain when walking uphill or hurrying = sometimes [HeAnb = 3]*

**HEANC**

Does this happen on most occasions?

1 Yes

2 No

END OF FILTER

*IF whether has pain when walking uphill or hurrying = [yes, sometimes, never]  
[HeAnb = [1, 3, 4]]*

**HEAND**

Do you get it when you walk at an ordinary pace on the level?

1 Yes

2 No

3 Sometimes / Occasionally

4 Never walks at an ordinary pace on the level

*IF whether has pain when walking at ordinary pace on the level = Never walks*

**HEAND1**

Do you never walk^[ BLANK / uphill / on the level] because... READ OUT...

CODE ONE ONLY

1 ...it causes chest pain to do so,

2 ...it causes other discomfort to do so,

3 ...you prefer not to,

4 or, for some other reason?

END OF FILTER

END OF FILTER

*IF pain when walking at ordinary pace on the level = sometimes [HeAnd = 3]*

**HEANE**

Does this happen on most occasions?

- 1 Yes
- 2 No

END OF FILTER

*IF (whether has pain when walking uphill or hurrying = yes OR whether this happens on most occasions = yes OR pain when walking at ordinary pace = yes OR whether this happens | on most occasions = yes)[(HeAnb = 1 OR HeAnc = 1 OR HeAnd = 1 OR HeAne = 1)]*

**HEANF**

What do you do if you get it while you are walking? Do you...

INTERVIEWER: Read out...

- 1 ...stop,
- 2 slow down,
- 3 or, do you carry on?

*IF action taken when pain occurs while walking = [stop, slow down] [HeAnf = [1, 2]]*

**HEANG**

If you stand still does the pain go away or not?

INTERVIEWER: If respondent unsure, PROBE - 'What happens to the pain on most occasions?'

- 1 Pain goes away
- 2 Pain doesn't go away

*IF whether pain goes away or remains = pain goes away [HeAng = 1]*

**HEANH**

How soon does the pain go away? Does it go in...

INTERVIEWER: Read out...

- 1 ...10 minutes or less,
- 2 or, more than 10 minutes?

*IF duration of pain = 10 minutes or less [HeAnh = 1]*

**HEANI@**

SHOW CARD C11

Will you show me where you get this pain or discomfort?

INTERVIEWER: PROBE - 'Where else?'

Code all that apply.

- 1 Sternum (upper or middle)
- 2 Sternum lower
- 3 Left anterior chest
- 4 Left arm
- 5 Right anterior chest
- 6 Right arm
- 95 Somewhere else

**[Multiple responses to HEANI are recoded in variables: heanius heanils heanslc heansla heansrc heansra heans95]**

**[code maximum 7 out of 7 possible responses]**

*IF location of pain = somewhere else [HeAni = 95]*

**HEANJ@**

Please could you tell me where you get this pain or discomfort?

INTERVIEWER: WRITE IN

String 40

***[Open responses to Heanj are coded and merged with the multiple responses to Heani (recoded as above). These merged responses are recoded in variables: heanmus heanmls heanmlc heanmla heanmra heanm85 heanm86]***

END OF FILTER

*IF ((location of pain = RESPONSE) AND NOT (location of pain = somewhere else)) AND (NOT ((type of CVD condition = angina) OR (type of CVD condition = heart attack) OR (type of CVD condition = diabetes) OR (type of CVD condition =stroke))) [((HeAni = RESPONSE) AND NOT (HeAni = 95)) AND (NOT ((HeDiaa = 2) OR (HeDiaa = 3) OR (HeDiaa = 7) OR (HeDiaa = 8)))]*

**HEANL**

Have you spoken to a doctor or nurse about this pain or discomfort?

1 Yes

2 No

END OF FILTER

END OF FILTER

END OF FILTER

END OF FILTER

END OF FILTER

END OF FILTER

*IF (whether told doctor about pain = yes AND Have already answered HeHrta earlier in interview <> yes) [(HEAnl = 1 AND NoHeHrt <> 1)]*

**HEHRTA**

Did a doctor suggest that you take medication to thin your blood such as warfarin or aspirin, Plavix, Ticlid, or other blood thinning medication?

1 Yes

2 No

***[Responses are recoded in hehrta2]***

*IF whether blood-thinning medication recommended = yes [Hehrta = 1]*

**HEHRTB**

Are you currently taking medication to thin your blood like Warfarin, Aspirin, Plavix, Ticlid, or other medication to thin the blood?

1 Yes

2 No

**[Responses are recoded in hehrtb2]**

*IF whether blood-thinning medication taken = yes [Hehrtb = 1]*

**HEHRTC**

Are you taking Warfarin?

- 1 Yes
- 2 No

**[Responses are recoded in hehrtc2]**

*IF whether Warfarin taken = yes [Hehrtc = 1]*

**HEHRTD**

Many doctors ask patients on Warfarin to get their blood tested regularly. The test checks how thin their blood is, and is sometimes called an INR test.

Do you get your blood checked for this?

- 1 Yes
- 2 No

**[Responses are recoded in hehrtd2]**

*IF whether has INR test = yes [Hehrtd = 1]*

**HEHRTE**

Have you had this blood test in the past 12 weeks?

- 1 Yes
- 2 No

**[Responses are recoded in hehrte2]**

*IF whether had INR test in past 12 weeks = yes [Hehrte = 1]*

**HEHRTF**

Have you had this blood test in the past 4 weeks?

- 1 Yes
- 2 No

**[Responses are recoded in hehrtf2]**

END OF FILTER

END OF FILTER

END OF FILTER

END OF FILTER

END OF FILTER

END OF FILTER

*IF (whether told doctor about pain = yes AND Have already answered HeChol earlier in interview <> yes) [(HEAnI = 1 AND NoHechol <> 1)]*

**HECHOL**

Has any doctor talked to you about how to lower your cholesterol? This would include changing your diet, losing weight, getting more exercise, or taking medication.

1 Yes

2 No

**[Responses are recoded in hechol2]**

*IF whether advised how to lower cholesterol = yes [Hechol = 1]*

**HECHOLA**

Have you done any of these things to lower your cholesterol?

1 Yes

2 No

**[Responses are recoded in hechoa2]**

END OF FILTER

END OF FILTER

*IF (CVD conditions = diabetes or a stroke, orlf (feedforward CVD conditions = diabetes and dispute diabetes diagnosis <> misdiagnosed <> never) orlf (feedforward CVD conditions = stroke and dispute stroke diagnosis <> misdiagnosed <> never)*

*[IF ((CVD7 IN QHE3.Qre[pnum].HeDiaa) OR (CVD8 IN QHE3.Qre[pnum].HeDiaa))  
OR ((CVD7 IN IFFW[PNum].HeDiaa) AND (QHE3.Qre[pnum].QHeDiaa[7].HeDiaN <> Never)  
AND (QHE3.Qre[pnum].QHeDiaa[7].HeDiaN <> MisDiag))  
OR ((CVD8 IN IFFW[PNum].HeDiaa) AND (QHE3.Qre[pnum].QHeDiaa[8].HeDiaN <> Never)  
AND (QHE3.Qre[pnum].QHeDiaa[8].HeDiaN <> MisDiag))  
AND (Hehrtb = EMPTY) AND (QHE3.Qre[pnum].HEhrtb = EMPTY)]*

**HeHrtMd**

^[Are you / is name] currently taking any medication to thin the blood such as Warfarin, Plavix, Ticlid, or other blood-thinning medication?

INTERVIEWER: Please include aspirin if it is taken as a medication to thin the blood.

1 Yes

2 No

END OF FILTER

*If ever had severe front of chest pain 30 mins = yes [HeAnk = 1]*

**HeRosMd**

^[Do you/Does name] take medication to control ^[your/his/her] chest pain?

INTERVIEWER: Do not include medications taken for indigestion.

1 Yes

2 No

END OF FILTER

**HERPA**

Do you usually bring up any phlegm from your chest, first thing in the morning in winter?

1 Yes

2 No

3 Don't know

*IF (whether brings up phlegm in the morning in winter = [no, don't know]) [(HeRpa = [2, 3]*

**HERPB**

Do you usually bring up any phlegm from your chest, during the day or at night in the winter?

- 1 Yes
- 2 No

END OF FILTER

*IF (whether brings up phlegm in the morning in winter = yes) OR (whether brings up phlegm during the day or at night in winter = yes) [(HeRpa = 1) OR (HeRpb = 1)]*

**HERPC**

Do you bring up phlegm like this on most days for as much as three months each year?

- 1 Yes
- 2 No

END OF FILTER

**HERPD**

Are you troubled by shortness of breath when hurrying on level ground or walking up a slight hill?

- 1 Yes
- 2 No
- 3 Never walks up hill or hurries
- 4 Cannot walk

*IF (whether gets short of breath when hurrying or walking uphill = [yes, never walks uphill]) [(HeRpd = [1, 3])]*

**HERPE**

Do you get short of breath walking with other people of your own age on level ground?

- 1 Yes
- 2 No
- 3 Never walks with people of own age on level ground
- 4 Cannot walk

*IF short of breath walking on level ground = never walk [HeRpe = NeverDo]*

**HeRpe1**

Do you never walk ^[BLANK / uphill or hurry / on level ground] because... READ OUT...  
CODE ONE ONLY

- 1 ...it makes you short of breath to do so,
- 2 ...it causes other discomfort to do so,
- 3 ...you prefer not to,
- 4 or, for some other reason?

END OF FILTER

*If (whether gets short of breath when walking on level ground = [yes, no]) [(HeRpe = [1, 2])]*

**HERPF**

Do you have to stop for breath when walking at your own pace on level ground?

- 1 Yes

2 No

END OF FILTER

END OF FILTER

**HERPG**

Have you had attacks of wheezing or whistling in your chest at any time in the last 12 months?

1 Yes

2 No

**HERPH**

Have you at any time in the past 12 months been woken at night by an attack of shortness of breath?

1 Yes

2 No

**HERPI**

Have you ever had attacks of shortness of breath with wheezing?

1 Yes

2 No

*IF whether ever had attacks of shortness of breath with wheezing = yes [HeRpi = 1]*

**HERPJ**

Is / Was your breathing absolutely normal between attacks?

1 Yes

2 No

END OF FILTER

**HECDA**

Do you get pain or discomfort in either of your legs which comes on when you walk?

1 Yes

2 No

3 Cannot walk

*IF whether has pain or discomfort in legs when walking = yes [HeCda = 1]*

**HECDB**

Does this pain ever begin when you are standing still or sitting?

1 Yes

2 No

**HECDC**

Do you get it if you walk uphill or hurry?

1 Yes

2 No

3 Never walks uphill or hurries

*IF pain or discomfort when walking = Never walk [HECDC = 3]*

**HeCdc1**

Do you never walk uphill/hurry because... READ OUT...

CODE ONE ONLY

1 ...it causes you pain or discomfort in your legs,

- 2 ...it causes other discomfort to do so,
- 3 ...you prefer not to,
- 4 or, for some other reason?

END OF FILTER

### **HECDD**

Do you get it when you walk at an ordinary pace on the level?

- 1 Yes
- 2 No
- 3 Never walks at an ordinary pace on the level

*IF (gets pain when walks at an ordinary pace on the level = Never walks [HeCDd = 3]) OR (pain or discomfort when walking = Never walk [HECDC = 3] AND gets pain when walks at an ordinary pace on the level = No [HeCDd = No])*

### **HECDD1**

Do you never walk uphill/hurry/walk at an ordinary pace because...READ OUT...

CODE ONE ONLY

- 1 ...it causes you pain or discomfort in your legs,
- 2 ...it causes other discomfort to do so,
- 3 ...you prefer not to,
- 4 or, for some other reason?

END OF FILTER

### **HECDE**

If you stand still does the pain usually...

INTERVIEWER: Read out...

- 1 ...continue for more than 10 minutes,
- 2 or, disappear in 10 minutes or less?

### **HECDF**

Where do you get this pain or discomfort? Is it in the...

INTERVIEWER: Read out each in turn and code all that apply.

- 1 ... Calf muscle?
- 2 ... Thigh or buttocks?
- 3 ... Somewhere else?

***[Multiple responses to HECDF are recoded in variables HECDF1 to HECDF3]  
[code maximum 3 out of 3 possible responses]***

END OF FILTER

### **HEADLA@\***

SHOW CARD C12

Because of a health problem, [^do you / does he / does she] have difficulty doing any of the activities on this card? Exclude any difficulties that you expect to last less than three months

INTERVIEWER: PROBE - 'What others?'...Code all that apply.

- 01 Walking 100 yards
- 02 Sitting for about two hours
- 03 Getting up from a chair after sitting for long periods
- 04 Climbing several flights of stairs without resting
- 05 Climbing one flight of stairs without resting
- 06 Stooping, kneeling, or crouching
- 07 Reaching or extending [^your / his / her] arms above shoulder level (either arm)
- 08 Pulling or pushing large objects like a living room chair

- 09 Lifting or carrying weights over 10 pounds, like a heavy bag of groceries
- 10 Picking up a 5p coin from a table
- 96 None of these

**[Multiple responses to HEADLA are recoded in variables: hemobwa hemobsi hemobch hemobcs hemobcl hemobst hemobre hemobpu hemobli hemobpi hemob96]  
[code maximum 10 out of 11 possible responses]**

**[CHECK HE60]**

**HEADLB@\***

SHOW CARD C13

Here are a few more everyday activities. Please tell me if [^you have / [^name] has] any difficulty with these because of a physical, mental, emotional or memory problem. Again exclude any difficulties you expect to last less than three months.

Because of a health or memory problem, [^do you / does he / does she] have difficulty doing any of the activities on this card?

INTERVIEWER: PROBE - 'What others?'...Code all that apply.

- 01 Dressing, including putting on shoes and socks
- 02 Walking across a room
- 03 Bathing or showering
- 04 Eating, such as cutting up [^your / his / her] food
- 05 Getting in or out of bed
- 06 Using the toilet, including getting up or down
- 07 Using a map to figure out how to get around in a strange place
- 08 Recognising when you are in physical danger
- 09 Preparing a hot meal
- 10 Shopping for groceries
- 11 Making telephone calls
- 12 Communication (speech, hearing or eyesight)
- 13 Taking medications
- 14 Doing work around the house or garden
- 15 Managing money, such as paying bills and keeping track of expenses
- 96 None of these

**[Multiple responses to HEADLB are recoded in variables: headldr headlwa headlba headlea headlbe headlwc headlma headlpr headlsh headlph headlme headlho headlmo headlb14 headlb15 headl96]  
[code maximum 13 out of 14 possible responses]**

**[CHECK HE61]**

**IF ((activities has difficulty doing - set A = RESPONSE) AND NOT (activities has difficulty doing - set A = none)) OR ((activities has difficulty doing - set B = RESPONSE) AND NOT (activities has difficulty doing - set B = none)) [((HeADLa = RESPONSE) AND NOT (HeADLa = 96)) OR ((HeADLb = RESPONSE) AND NOT (HeADLb = 96))]**

**HEHPA\***

Thinking about the activities that [^you have / [^name] has] problems with, does anyone ever help [^you / him / her] with these activities (including [^your / his / her] partner or other people in [^your / his / her] household)?

- 1 Yes
- 2 No

**IF has help with activities that has difficulty doing [HEHPa = Yes] AND (has difficulty climbing several flights of stairs without resting; or with climbing one flight of stairs without resting [HEAdla = 4,5] OR has difficulty walking across a room, getting in or out of bed or with using**

社会关怀

*the toilet, including getting up or down [HEAdlb= 2,5,6])*

**HEHPH@\***

Who, if anyone, helps ^youname[PNum] with ^moving?

INTERVIEWER: Does anyone else help ^himher[PNum] with these activities?

Code all that apply.

1 Husband or wife or partner

2 Son

3 Daughter

4 Sister

5 Brother

6 Other relative

7 Privately paid help

8 Local authority / social services helper e.g. home care worker

9 Nurse, e.g. health visitor or district nurse

10 Member of staff at the care/nursing home

11 Friend or neighbour

95 Other person

96 Does not get any help

**[Multiple responses to HEHPH are recoded in variables: hehphsp hehphso hehphda  
hehphsi hehphbr hehphor hehphpp hehphla hehphnu hehphst hehphfr hehphot  
hehph96]**

**[code maximum 12 out of 13 possible responses]**

END OF FILTER

*IF difficulties with every day activities = dressing or bathing [HEADLB = 1 or 2]*

**HEHPW@\***

SHOW CARD C14

Who helps [^you / [^name]] with ^[ getting dressed / bathing or showering / dressing and bathing or showering]?

01 Husband or wife or partner

02 Son

03 Daughter

04 Sister

05 Brother

06 Other relative

07 Privately paid employee

08 Local authority / social services helper e.g. home care worker

09 Nurse, e.g. health visitor or district nurse

10 Member of staff at the care/nursing home

11 Friend or neighbour

95 Other person

96 ^[Do you / does name] not get any help

**[Multiple responses to HEHPW are recoded in variables: hehpwsp hehpwso hehpwda  
hehpwsi hehpwbr hehpwor hehpwpp hehpwla hehpwnu hehpwst hehpwfr hehpwot  
hehpw96]**

**[code maximum 12 out of 12 possible responses]**

END OF FILTER

*IF difficulties with every day activities = eating or preparing meals [HEADLB = 4 or 9]*

**HEHPD@\***

SHOW CARD C14

Who helps [^you / [^name]] with ^[ eating (such as cutting up your food) / preparing a hot meal / eating (such as cutting up your food) / preparing a hot meal]?

01 Husband or wife or partner

02 Son

03 Daughter

04 Sister

05 Brother

06 Other relative

07 Privately paid employee

08 Local authority / social services helper e.g. home care worker

09 Nurse, e.g. health visitor or district nurse

10 Member of staff at the care/nursing home

11 Friend or neighbour

95 Other person

96 ^[Do you / does name] not get any help

***[Multiple responses to HEHPD are recoded in variables: hehpdsp hehpdso hehpdda hehpdsi hehpdbr hehpdor hehpdpp hehpdla hehpdnu hehpdst hehpdfr hehpdot hehpd96]***

***[code maximum 12 out of 12 possible responses]***

END OF FILTER

*IF difficulties with every day activities = buying groceries or doing housework [HEADLB = 10 or 14]*

**HEHPP@\***

SHOW CARD C14

Who helps [^you / [^name]] with ^[ shopping for groceries / doing work around the house and garden / shopping for groceries / doing work around the house and garden]?

01 Husband or wife or partner

02 Son

03 Daughter

04 Sister

05 Brother

06 Other relative

07 Privately paid employee

08 Local authority / social services helper e.g. home care worker

09 Nurse, e.g. health visitor or district nurse

10 Member of staff at the care/nursing home

11 Friend or neighbour

95 Other person

96 ^[Do you / does name] not get any help

***[Multiple responses to HEHPP are recoded in variables: hehppsp hehppso hehppda hehppsi, hehppbr hehppor hehpppp hehppla hehppnu hehppst hehppfr hehppot | | hehpp96]***

***[code maximum 12 out of 12 possible responses]***

END OF FILTER

*IF difficulties with every day activities = making phone calls or managing money [HEADLB = 11 or 15]*

**HEHPT@\***

SHOW CARD C14

Who helps [^you / [^name]] with [^making telephone calls / managing money (such as paying bills and keeping track of expenses / making telephone calls and managing money (such as paying bills and keeping track of expenses)?

01 Husband or wife or partner

02 Son

03 Daughter

04 Sister

05 Brother

06 Other relative

07 Privately paid employee

08 Local authority / social services helper e.g. home care worker

09 Nurse, e.g. health visitor or district nurse

10 Member of staff at the care/nursing home

11 Friend or neighbour

95 Other person

96 [Do you / does name] not get any help

***[Multiple responses to HEHPT are recoded in variables: hehtsp hehtso hehtda  
hehtsi hehtbr hehtor hehtpp hehtla hehtnu hehtst hehtfr hehtot heht96]  
[code maximum 12 out of 12 possible responses]***

END OF FILTER

*IF difficulties with every day activities = taking medications [HEADLB = 13]*

**HEHPM@\***

SHOW CARD C14

Who helps [^you / [^name]] with taking medications?

01 Husband or wife or partner

02 Son

03 Daughter

04 Sister

05 Brother

06 Other relative

07 Privately paid employee

08 Local authority / social services helper e.g. home care worker

09 Nurse, e.g. health visitor or district nurse

10 Member of staff at the care/nursing home

11 Friend or neighbour

95 Other person

96 [Do you / does name] not get any help

***[Multiple responses to HEHPM are recoded in variables: hehmsp hehpmsohehmda,  
hehpm si hehpmbr hehpmor hehpmpp hehpm la hehpmnu hehpmst hehpmfr hehpmot  
hehpm96]  
[code maximum 12 out of 12 possible responses]***

END OF FILTER

*IF (has problems walking, sitting, getting up from a chair, stooping, reaching, pulling, lifting, picking up a coin, reading a map, speaking or recognising danger) and (does not have help with any of the problematic activities)*

[(wblock IN HEAdla) OR (sitting IN HEAdla) OR (chair IN HEAdla) OR (stoop IN HEAdla) OR (reach IN HEAdla) OR (pulling IN HEAdla) OR (lifting IN HEAdla) OR (coin IN HEAdla) OR (mapread IN HEAdlb) OR (speech IN HEAdlb) OR (danger IN HEAdlb)) AND ((HeHph <> RESPONSE) OR (NoHelp IN HeHph)) AND ((HeHPw <> RESPONSE) OR (NoHelp IN HeHPw)) AND ((HeHPd <> RESPONSE) OR (NoHelp IN HeHPd)) AND ((HeHPm <> RESPONSE) OR (NoHelp IN HeHPm)) AND ((HeHPp <> RESPONSE) OR (NoHelp IN HeHPp)) AND ((HeHPt <> RESPONSE) OR (NoHelp IN HeHPt))]

**HEHPB@\***

SHOW CARD Q

Who helps [^you / [^name]] with these (other) activities?

INTERVIEWER: PROBE - 'Does anyone else help [^you / him / her] with these activities?'

Code all that apply.

01 Husband or wife or partner

02 Son

03 Daughter

04 Sister

05 Brother

06 Other relative

07 Privately paid employee

08 Local authority / social services helper e.g. home care worker

09 Nurse, e.g. health visitor or district nurse

10 Member of staff at the care/nursing home

11 Friend or neighbour

95 Other person

96 [Do you / does name] not get any help

**[Multiple responses to HEHPB are recorded in variables: hehpbasp hehpbaso hehpbada hehpbasi hehpbbr hehpbbr hehpbpp hehpbpla hehpbnu hehpbst hehpbfr hehpbot hehpb96]**

**[code maximum 12 out of 12 possible responses]**

END OF FILTER

**HEHPC\***

Would you say that the help [^you / he / she] receive...

INTERVIEWER: Read out...

1 ...Meets [^your / his / her] needs all the time,

2 usually meets [^your / his / her] needs,

3 sometimes meets [^your / his / her] needs,

4 or, hardly ever meets [^your / his / her] needs?

END OF FILTER

*If social services helped with everyday activities [(socserv IN hehph) OR (socserv IN hehpw) OR (socserv IN hehpd) OR (socserv IN Hehpp) OR (socserv IN hehpt) OR (socserv IN hehpm) OR (socserv IN hehpb) ]*

**HEHPLA@\***

About how often did [^you / he / she] have help from or see a local authority helper last month?"

1 Every day or nearly every day

2 Two or three times a week

3 Once a week

4 Less often

96 Not at all

|  
END OF FILTER

*If privately paid employee helped with everyday activities [(Priv IN hehph) OR (Priv IN hehpw) OR (Priv IN hehpd) OR (Priv IN Hehpp) OR (Priv IN hehpt) OR (Priv IN hehpm) OR (Priv IN hehpb)]*

**HEHPPD@\***

About how often did ^[you / he / she] have privately paid help in the last month?"

- 1 Every day or nearly every day
- 2 Two or three times a week
- 3 Once a week
- 4 Less often
- 96 Not at all

END OF FILTER

*IF had difficulty with physical actions or everyday activities [((HeADLa = RESPONSE AND NOT(None IN HeAdLa)) OR (HeADLb = RESPONSE AND NOT(None IN HeAdLb)))]*

**HeHPs@\***

SHOW CARD C15

^[do you / does name] currently use any of the services listed on this card?

CODE ALL THAT APPLY.

- 1 Occupational therapist or physiotherapist
- 2 Chiropodist
- 3 Exercise classes including yoga, pilates, gym
- 95 Other
- 96 None of these

**[Multiple responses to HeHPs are recoded in variables: hehpsot hehpsch hehpsch hehpssex hehps95 hehps96]**

*IF services used = none of these [Other IN HeHPs]*

**HeHPsO@\***

INTERVIEWER: Please specify other answer.

STRING[80]

END OF FILTER

END OF FILTER

*IF aged 65 or over*

**HeClub@**

Have you ever used the following services ...READ OUT...

CODE ALL THAT APPLY.

- 1 Lunch club
- 2 Day care centre
- 3 Meals on wheels
- 96 None of these

**[Multiple responses to HeClub are recoded in variables: HeClub1 HeClub2 HeClub3 HeClub96]**

*IF has ever used meals on wheels [HeClub=3]*

**HEMW**

SHOW CARD C16

How often do you eat a meal provided by Meals on Wheels?

- 1 Every day or nearly every day
- 2 Two or three times a week
- 3 Once a week
- 4 Two or three times a month
- 5 Once a month or less
- 6 SPONTANEOUS - do not currently use

END OF FILTER

*IF used lunch club [LClub IN HeClub]*

**HeLC**

SHOW CARD C16

How often do you attend a lunch club?

- 1 Every day or nearly every day
- 2 Two or three times a week
- 3 Once a week
- 4 Two or three times a month
- 5 Once a month or less
- 6 SPONTANEOUS - do not currently use

END OF FILTER

*If used day care centre [DCare IN HeClub]*

HeDCC

SHOW CARD C16

How often do you attend a day care centre?

- 1 Every day or nearly every day
- 2 Two or three times a week
- 3 Once a week
- 4 Two or three times a month
- 5 Once a month or less
- 6 SPONTANEOUS - do not currently use

END OF FILTER

*IF used meals on wheels [MoW IN HeClub]*

**HeLC**

SHOW CARD C16

How often do you eat a meal provided by Meals on Wheels?

- 1 Every day or nearly every day
- 2 Two or three times a week
- 3 Once a week
- 4 Two or three times a month
- 5 Once a month or less
- 6 SPONTANEOUS - do not currently use

END OF FILTER

*IF had difficulty with physical actions or everyday activities [((HeADLa = RESPONSE AND NOT(None IN HeAdLa)) OR (HeADLb = RESPONSE AND NOT(None IN HeAdLb)))]*

**HEAID@\***

[^Do you / Does [^name]] use any of the following?

INTERVIEWER: Read out and code all that apply.

Only include personal alarms used to call for assistance after falls etc.

- 1 A cane or walking stick
- 2 A zimmer frame or walker
- 3 A manual wheelchair
- 4 An electric wheelchair
- 5 A buggy or scooter
- 6 Special eating utensils
- 7 A personal alarm
- 8 Elbow crutches
- 96 None of these

**[Multiple responses to HEAID are recoded in variables: heaidca heaidzi heaidmw  
heaidew heaidbu heaidea heaidal heaidcr heaid96]  
[code maximum 8 out of 9 possible responses]**

**[CHECK HE62]**

END OF FILTER

*If uses mobility aid*

**HeAidCh@**

Can I check, did you get ^pmobilityaid since ^LastDate?

INTERVIEWER: Please include any replacements.

- 1 Yes
- 2 No

**[Multiple responses to HeAidCh are recoded in variables: hecach hezich hemwch  
heewch hebuch heeach healch hecrch ]**

END OF FILTER

*If whether got aid since last interview <> no [HeAidCh <>2]*

**HeAidP@**

Who paid for the ^pmobilityaid?

INTERVIEWER: Read out each in turn and code all that apply.

- 1 Health Service (NHS),"
- 2 Social Services,"
- 3 ^[You / Name] or [ your / his / her spouse/partner]
- 95 or someone else (please specify)?

**[Multiple responses to HeAidP are recoded in variables: hecanhs hecass hecase  
hecaot hezinhs heziss hezise heziot hemwnhs hemwss hemwse hemwot heewnhs  
heewss heewse heewot hebunhs hebuss hebuse hebuot heeanhs heeass heease  
heeaot healnhs healss healse healot hecrnhs hecrss hecrse hecrot]**

*If HeAidP = other*

**HEAIDPO@**

Please specify.

STRING[50]

**[Open responses to HEAIDPO are coded and merged with the multiple responses to  
HEAIDP (recoded as above). These merged responses are recoded in variables:  
hecamnhs hecamss hecamse hecamff hecamll hecamch hecamfr hecam85 hecam86  
hezimnhs hezimss hezimse hezimfa hezimll hezimch hezimfr hezim85  
hezim86 hemwmnhs hemwmss hemwmse hemwmfa hemwmll hemwmch hemwmfr  
hemwm85 hemwm86 heewmnhhs heewmss heewmse heewmfa heewmll heewmch  
heewmfr heewm85 heewm86 hebumss hebumse hebumfa hebumll hebumch  
hebumfr hebum85 hebum86 heeamnhs heeamss heeamse heeamfa heeamll  
heeamch heeamfr heeam85 heeam86 healmss healmse healmfa healmll]**

healmch healmfr heal85 heal86 hecrmnhs hecrmss hecrmse hecrmf  
hecrml hecrmch hecrmfr hecrm85 hecrm86]

END OF FILTER

**HEAIDP2@**

Can I just check that ^[the NHS / the Social Services / ^[You or Name] or ^[your / his / her spouse/partner] / answer at HEAIDPO] covered all the costs of the ^pmobilityaid?"

- 1 Yes covered all costs
- 2 No

**Multiple responses to HEAIDP2 are recoded in variables: hecacov hezicov hemwcov heewcov hebucov heeacov healcov heercov]**

尿失禁

**HEINCT**

We would like to ask you about incontinence.

During the last 12 months, have you lost any amount of urine beyond your control?

- 1 Yes
- 2 No

*IF whether lost urine beyond control = yes [HeInct = 1]*

**HEINCTA**

When you had this problem, did it last for more than 1 month?

- 1 Yes
- 2 No

END OF FILTER

*IF whether ever smoked cigarettes at Last interview <> RESPONSE [HeSmk (Last int) <> RESPONSE]*

**HESMK\***

Have you ever smoked cigarettes?

- 1 Yes
- 2 No

END OF FILTER

*IF (whether ever smoked cigarettes = yes) OR (whether ever smoked cigarettes at Last interview = RESPONSE) OR (Whether is a proxy respondent = yes) [(HeSmk = 1) OR (HeSmk (Last int) = RESPONSE) OR (IAskPx = 1)]*

**HESKA\***

[^Do you / Does [^name]] smoke cigarettes at all nowadays?

- 1 Yes
- 2 No

END OF FILTER

*IF (whether smoked cigarettes at Last interview = yes) AND (whether smokes cigarettes now = no) [(HESka (Last int) = 1) AND (HESka = 2)]*

**HESKD**

The last time we interviewed you [^on date of last interview], you said that you were smoking

at that time.

INTERVIEWER: Code 1 below unless respondent spontaneously disputes this record.

- 1 Yes
- 2 No

*IF whether smoking at previous wave disputed = no [HeSkd = 2]*

**HESKE**

INTERVIEWER: Code reason why respondent disputes the record. Respondent says...

- 1 Never smoked cigarettes
- 2 No longer smoking cigarettes by last interview
- 3 Stopped smoking cigarettes since last interview

ELSE

*IF whether smoking at previous wave disputed = yes [HeSkd = 1]*

**HESKF**

INTERVIEWER: Code response given by respondent

- 1 Does smoke cigarettes nowadays
- 2 Stopped smoking cigarettes since last interview

END OF FILTER

END OF FILTER

*IF (reason smoking disputed = stopped smoking ) OR (whether smokes now = stopped smoking) [HeSke = 3 OR HeSkf = 2]*

**HESTOP**

SHOW CARD R

What was the main reason that you stopped smoking cigarettes?

- 01 Doctor or nurse said I should stop
- 02 It is unhealthy
- 03 It is expensive / to save money
- 04 Pressure from family or friends
- 05 Worried about effect of passive smoke on people around me
- 06 Stopped enjoying it
- 07 Cosmetic reasons (e.g. smell, stained teeth, fingers, hair)
- 08 It's becoming harder to smoke in public or at work
- 09 Advertising
- 95 Other (SPECIFY)

*IF reason for quitting smoking = other [Hestop = 95]*

**HESTOPA@**

INTERVIEWER: Enter other reason given for stopping smoking.

String 30

END OF FILTER

END OF FILTER

END OF FILTER

*IF whether smokes cigarettes nowadays = yes [HESka = 1]*

**HECIG**

Do you smoke cigarettes or roll ups?

- 1 Cigarettes
- 2 Roll ups
- 3 Both cigarettes and roll-ups

*IF whether smokes cigarettes or roll ups = [cigarettes, both] [HECig = [1, 3]]*

**HESKB**

About how many cigarettes a day do you usually smoke on weekdays?

INTERVIEWER: If range given and can't estimate, enter mid-point.

If less than one a day, enter 0.

Range: 0..997

**HESKC**

About how many cigarettes a day do you usually smoke at weekends?

INTERVIEWER: If range given and can't estimate, enter mid-point.

If less than one a day, enter 0.

Range: 0..997

**[CHECK HE64 - HE67]**

END OF FILTER

*IF whether smokes cigarettes or roll ups = [roll ups, both] [HECig = [2, 3]]*

**HETBA**

How much tobacco do you normally smoke on a weekday?

INTERVIEWER: Code how answer is given.

- 1 Grams
- 2 Ounces

**HETBB**

(How much tobacco do you normally smoke on a weekday?)

INTERVIEWER: Enter amount.

Range: 0..997

**[CHECK HE68 - HE70]**

**HETBC**

How much tobacco do you normally smoke a day at weekends?

INTERVIEWER: Code how answer is given.

- 1 Grams
- 2 Ounces

**HETBD**

(How much tobacco do you normally smoke a day at weekends?)

INTERVIEWER: Enter amount.

Range: 0..997

**[CHECK HE71 - HE73]**

END OF FILTER

**HECGSTP**

Has a doctor or nurse ever advised you to stop smoking?

1 Yes

2 No

*IF whether doctor / nurse advised to stop smoking = yes [Hecgstp = 1]*

**HECGSTA**

Did you stop for more than 6 months as a result of this advice?

1 Yes

2 No

END OF FILTER

**HECGNIC**

Has any doctor or nurse ever told you about any nicotine products, such as nicotine patches, chewing gum, lozenges or other similar products at all to help you give up smoking?

1 Yes

2 No

**HENICTK**

[^Are you / Is [^name]] taking any medication to help [^you / him / her] stop smoking, such as nicotine replacement medication or gum or patches?

1 Yes

2 No

END OF FILTER

**HEACTA**

SHOW CARD C18

We would like to know the type and amount of physical activity involved in ^[your / name's] daily life. ^[Do you / Does he or she] take part in sports or activities that are vigorous...

INTERVIEWER: Read out...

1 ...more than once a week,

2 once a week,

3 one to three times a month,

4 hardly ever, or never?

**HEACTB**

SHOW CARD C18

And ^[do you / does he or she] take part in sports or activities that are moderately energetic...

INTERVIEWER: Read out...

1 ..more than once a week,

2 once a week,

3 one to three times a month,

4 hardly ever, or never?

**HEACTC**

SHOW CARD C18

And ^[do you / does he or she] take part in sports or activities that are mildly energetic...

INTERVIEWER: Read out...

1 ..more than once a week,

2 once a week,

3 one to three times a month,

4 hardly ever, or never?

## Female Health Module

*If sex = female*

HEMIN

The next set of questions are just for women and ask about menstrual periods and issues to do with reproductive organs.

INTERVIEWER: Press <1> and <Enter> to continue.

*If not answered HEMEN at previous wave If (IFFW[PNum].Hemen <> RESPONSE)*

**HEMEN@**

About how old were you when you had your first menstrual period?

INTERVIEWER: If cannot give exact age, code 95 and ask age band at the next question.

Range 0..95

*If couldn't give exact age If (HEMEN = 95)*

**HEMEB@**

Were you...

- 1 ...less than 11 years old,
- 2 between 11 and 12 years old,
- 3 between 13 and 15 years old,
- 4 between 16 and 18 years old,
- 5 or more than 18 years old?

END OF FILTER

END OF FILTER

*If Hehye at previous wave = no or was not answered*

*If (IFFW[PNum].Hehye = No) OR (IFFW[PNum].Hehye <> RESPONSE)*

**HEHYE@**

Have you had an operation for the removal of your uterus or womb?

- 1 Yes
- 2 No

*If operation to remove uterus or womb = yes If (HEHYE = Yes)*

**HEHY@**

When was this operation for the removal of your uterus or womb?

INTERVIEWER: Enter year.

Range : 1900..20yy

*If year of operation = don't know If (HEHY = DK) THEN*

**HEHYA@**

(If you cannot remember the year) please give your age when you had your uterus or womb removed.

INTERVIEWER: Enter age.

Range 0..150

END OF FILTER

END OF FILTER

END OF FILTER

*If oophorectomy at previous wave = no or not answered  
If (IFFW[PNum].Heove = No) OR (IFFW[PNum].HeOve <> RESPONSE)*

**HEOVE@**

Have you had an operation to remove both your ovaries (a bilateral oophorectomy)?

- 1 Yes
- 2 No

*If oophorectomy = yes If (HEOVE = Yes)*

**HEOVY@**

When was this operation for the removal of your ovaries?

Range: 1900..20yy

*If oophorectomy year = don't know IF (HEOVY = DK)*

**HEOVYA@**

(If you cannot remember the year) please give your age when you had your ovaries removed.

INTERVIEWER: Enter age.

Range : 0..150

END OF FILTER

END OF FILTER

*If (past year menstruation at previous wave = yes or not answered) or (periods stopped reason at previous wave = pregnancy or other reason or not answered)*

*IF (IFFW[PNum].HEpee = Yes) OR (IFFW[PNum].HEpee = EMPTY)*

*OR (IFFW[PNum].Heper = EMPTY) OR (IFFW[PNum].Heper IN [Preg,Other])*

**HEPEE@**

In the past 12 months have you had a period or menstrual bleeding?

- 1 Yes
- 2 No

*If past year menstruation = no IF (HEPEE = No)*

**HEPEY@**

In what year did you have your last period?

Range : 1900..2011

*If year of last period = don't know IF (HEPEY = DK)*

**HEPEA@**

(If you cannot remember the year) please give your age when you had your last period.

INTERVIEWER: Enter age.

Range : 1900..2011

END OF FILTER

**HEPER@**

Were your periods stopped by...

- 1 ...the menopause (or no obvious reason),
- 2 surgery (incl, sterilisation/hysterectomy EDIT)
- 3 chemotherapy,
- 4 pregnancy or breast feeding,
- 5 or for another reason?

*If reason for periods stopping = other IF (HEPER = Other)*

**HEPRB@**

INTERVIEWER: specify other reason periods stopped.  
STRING [50]

END OF FILTER

END OF FILTER

*If ever taken HRT = not answered at previous wave IF (IFFW[PNum].Hehno <> RESPONSE)*

**HEHRT@**

This section is about hormone replacement therapy (HRT).  
Have you ever taken HRT?  
1 Yes  
2 No

*If ever taken HRT = yes IF (HEHRT = Yes)*

**HEHRY@**

When did you first start HRT (hormone replacement therapy)?  
INTERVIEWER: Enter year.  
Range : 1900..2011

**HEHFM@**

In what month did you first start HRT (hormone replacement therapy)?

*If year of starting HRT = don't know or month of starting HRT = don't know  
If (HEHRY = DK) {OR (HEHFM = DK)}*

**HEHFA@**

(If you cannot remember the year) please give your age when you first started HRT.  
INTERVIEWER: Enter age.  
Range : 0..150

END OF FILTER

**HEHPS@**

When you first started HRT had your periods stopped?  
1 Yes  
2 No

*If periods stopped before started HRT = yes IF (HEHPS = Yes) THEN*

**HEHPY@**

How long after your last period did you start HRT?  
1 Less than 3 months  
2 3-6 months  
3 7-12 months  
4 More than 12 months

END OF FILTER

END OF FILTER

END OF FILTER

*If (currently on HRT at previous wave = yes or ever taken HRT at previous wave = yes) or ever taken HRT = not answered [(IFFW[PNum].Hehno=Yes) OR (HEHRT=Yes)) AND (Hehrt<>response)]*

**HEHNIN@**

I now have some questions about Hormone Replacement Therapy.  
INTERVIEWER: Press <1> and <Enter> to continue.

END OF FILTER

**HEHNO@**

Are you currently on HRT?

- 1 Yes
- 2 No

*If currently on HRT = no [HEHNO = No]*

**HEHST@**

When did you last take HRT?

INTERVIEWER: Enter year.  
Range : 1900..2011

*If when last took HRT = don't know IF (HEHST = DK)*

**HEHSTA@**

(If you cannot remember the year) please give your age when you last took HRT.

INTERVIEWER: Enter age.  
Range : 0..150

END OF FILTER

END OF FILTER

END OF FILTER

**HETSET\*@**

INTERVIEWER: The Health section is finished.

Please enter <1> here to make the program store the current time and date.

**HE Module Checks**

**HE1 HEATA**

*IF main symptom affecting walking = RESPONSE [HeAta = RESPONSE]*

CHECK: *main symptom affecting walking* IN symptoms affecting walking  
[HeAta.ORD IN HeAtt]

INTERVIEWER: This reason wasn't given at HeAtt.  
Please change!

END CHECK

END OF FILTER

**HE2 HEAID**

*IF walking aids used = None [HeAid = 96]*

CHECK: walking aids used.CARDINAL = 1 [HeAid.CARDINAL = 1]

'None of these' is an exclusive code for this question.

END CHECK

END OF FILTER

**HE3 HEAIDW**

*IF type of walking aid disputed = RESPONSE [HeAidW = RESPONSE]*

LOOP FOR idx:= 1 TO 8

*IF type of walking aid disputed = idx [HeAidW = idx]*

CHECK: (idx = walking aids used) INVOLVING (*type of walking aid disputed*)  
[idx = IW1[PNum].HeAid INVOLVING HeAidW ]

INTERVIEWER: You cannot use this code.

END CHECK

END OF FILTER

END OF FILTER

END OF FILTER

**HE4 HEOPW**

*IF eye condition disputed = RESPONSE [HeOpW = RESPONSE]*

LOOP FOR idx:= 1 TO 7

*IF eye condition disputed = idx [HeOpW = idx]*

CHECK: (idx = types of eye conditions) INVOLVING (*eye condition disputed*)  
[idx = IW1[PNum].HeOpt INVOLVING HeOpW]

INTERVIEWER: You cannot use this code.

END CHECK

END OF FILTER

END OF FILTER

END OF FILTER

**HE5 HEOPT**

**HE6 HEOPT**

**HE7 HEOPT**  
**HE8 HEOPT**  
**HE9 HEOPT**

*(IF (Types of eye condition = RESPONSE) AND (eye condition disputed = RESPONSE)) AND (Confirms previous eye condition = No) [HeOpt = RESPONSE] AND {HeOpW = RESPONSE} AND {HeOpC = 2}*

LOOP FOR idx:= 1 TO 4

*IF types of eye conditions = idx [HeOpt = idx]*

CHECK: NOT (idx = IW1[PNum]. types of eye conditions) INVOLVING (types of eye conditions)

[NOT idx = IW1[PNum].HeOpt INVOLVING HeOpt ]

INTERVIEWER: Clarify that respondent did not have ^TextfillF[idx] at last interview but has now.

END CHECK

END OF FILTER

END OF FILTER

END OF FILTER

*IF (types of eye condition = RESPONSE) AND (confirms previous eye condition = Yes) [HeOpt = RESPONSE AND HeOpC = 1]*

LOOP FOR idx:= 1 TO 4

*IF types of eye conditions = idx [HeOpt = idx]*

CHECK: NOT (idx = IW1[PNum]. types of eye condition) INVOLVING (types of eye condition) [NOT idx = IW1[PNum].HeOpt INVOLVING HeOpt]

INTERVIEWER: You cannot use this code.

END CHECK

END OF FILTER

END OF FILTER

END OF FILTER

LOOP FOR idx:= 1 TO 4

*IF (Reason eye condition disputed = Has Now) AND (Eye condition disputed = RESPONSE)[HeOpN = 3 AND HeOpW = RESPONSE]*

CHECK: (idx = types of eye conditions) INVOLVING (types of eye conditions) [idx = HeOpt INVOLVING HeOpt]

INTERVIEWER: Respondent has reported they have a new condition at the previous question (HeOpN).

Please add code ^idx to this question.

```
| |
| | END CHECK
| | END OF FILTER
| END OF FILTER
```

*IF Types of eye condition = None [HeOpt = None]*

```
| CHECK: Types of eye condition.CARDINAL = 1 [HeOpt.CARDINAL = 1]
| INTERVIEWER: 'None' is an exclusive code at this question.
| Please change.
| END CHECK
| END OF FILTER
```

*IF types of eye conditions = glaucom, diaeyej, macdegen, catarac [HeOpt = 1 OR HeOpt = 2 OR HeOpt = 3 OR HeOpt = 4]*

```
| LOOP FOR idx:= 1 TO 4
| | IF NOT (idx = Types of eye condition) [NOT idx = HeOpt]
| | | CHECK: NOT (idx = Types of eye condition) INVOLVING (Types of eye condition)
| | | [NOT idx = HeOpt INVOLVING HeOpt]
| | | INTERVIEWER: Please check, code ^XHeOpt was not mentioned at 'HeOpt'.
| | | END CHECK
| | | END OF FILTER
| | END OF FILTER
| END OF FILTER
| END OF FILTER
```

**HE10 HEDIAA**

**HE11 HEDIAA**

*IF types of CVD conditions = None [HeDiaa = None]*

```
| CHECK: types of CVD conditions.CARDINAL = 1 [HeDiaa.CARDINAL = 1 ]
| INTERVIEWER: 'None' is an exclusive code at this question.
| Please change!
| END CHECK
| END OF FILTER
```

LOOP FOR ldx:= 1 TO 8

```
| IF Reason CVD condition disputed = Did not have previously, but has now
```

[QHeDiaa.HeDiaN = 3]

CHECK: (Idx = *types of CVD conditions*) INVOLVING (*types of CVD conditions*)  
[Idx = HeDiaa INVOLVING HeDiaa ]

INTERVIEWER: The respondent has confirmed they have ^XCon[idx] at a previous question (reason CVD condition disputed).  
Please add code ^idx to this question.

END CHECK

END OF FILTER

END OF FILTER

### HE12 HEDIX

*IF types of CVD conditions = None [HeDiaZ = 96]*

CHECK: types of CVD conditions.CARDINAL = 1 [HeDiaZ.CARDINAL = 1 ]

EDITOR: 'None' is an exclusive code at this question.  
Please change!

END CHECK

END OF FILTER

### HE13 HEAGA

### HE14 HEAGA

*IF (Respondent Age > 0) AND (Age first told had angina = RESPONSE)*

*[IAgeOf > 0 AND HeAga = RESPONSE]*

CHECK: age first told had angina <= Respondent Age [HeAga <= IAgeOf ]

INTERVIEWER: ^IName[Pnum] is only ^iageof[Pnum] now!

Please check and amend.

END CHECK

END OF FILTER

*IF age first told had angina = RESPONSE [HeAga = RESPONSE]*

CHECK: age first told had angina > 35 [HeAga > 35 ]

This seems young (^heaga), can I check?

END CHECK

END OF FILTER

### HE15 HEAGARY

### HE16 HEAGARY

*IF (Date of Last Interview = RESPONSE) AND (Month told had angina = RESPONSE) AND (Year told had angina = RESPONSE)*

*[IntDat = RESPONSE AND HeagaR = RESPONSE AND HeagaRY = RESPONSE]*

CHECK: Interview Date >= TODATE (year told had angina, month told had angina, 1) [IntDat >= TODATE HeagaRY, HeagaR.ORD, 1 ]

INTERVIEWER: This date is in the future (^HeagaR ^HeagaRY)! Please change!

END CHECK

END OF FILTER

*IF (Previous Interview Date = RESPONSE) AND (month told had angina = RESPONSE) AND (year told | had angina = RESPONSE) [PrevDate = RESPONSE AND HeagaR = RESPONSE AND HeagaRY = RESPONSE]*

CHECK: Previous Interview Date <= TODATE (year told had angina, month told had | angina, 28) [PrevDate <= TODATE HeagaRY, HeagaR.ORD, 28 ]

INTERVIEWER: This date is before the date of ^IName[Pnum]'s last interview. Please check!

END CHECK

END OF FILTER

#### **HE17 HEAGB**

#### **HE18 HEAGB**

*IF (Respondent Age > 0) AND (Age first told had heart attack = RESPONSE) [IAgeOf > 0 AND HeAgb =RESPONSE]*

CHECK: age first told had heart attack <= Respondent Age [HeAgb <= IAgeOf ]

INTERVIEWER: ^IName[Pnum] is only ^iageof[Pnum] now!

Please check and amend.

END CHECK

END OF FILTER

*IF age first told had heart attack = RESPONSE [HeAgb = RESPONSE]*

CHECK: age first told had heart attack > 35 [HeAgb > 35 ]

This seems young (^heagb), can I check?

END CHECK

END OF FILTER

#### **HE19 HEAGBRY**

#### **HE20 HEAGBRY**

*IF ((Interview Date = RESPONSE) AND (Month told had heart attack = RESPONSE)) AND (Year told had heart attack = RESPONSE) [QInit.IntDat = RESPONSE AND HeAgbR = RESPONSE AND HeAgbRY = RESPONSE]*

CHECK: Interview Date >= TODATE (year told had heart attack, month told had heart attack,  
1)  
[QInit.IntDat >= TODATE HeAgbRY, HeAgbR.ORD, 1]  
INTERVIEWER: This date is in the future (^HeAgbR ^HeAgbRY)! Please  
change!  
END CHECK

**END OF FILTER**

*IF ((Previous Interview Date = RESPONSE) AND (Month told had heart attack = RESPONSE))  
AND*

*(Year told had heart attack = RESPONSE) [PrevDate = RESPONSE AND HeAgbR =  
RESPONSE AND HeAgbRY = RESPONSE]*

CHECK: Previous Interview Date <= TODATE  
(year told had heart attack, month told had heart attack, 28)  
[PrevDate <= TODATE HeAgbRY, HeAgbR.ORD, 28]

INTERVIEWER: This date is before the date of ^IName[Pnum]'s last interview. Please  
check!

END CHECK

END OF FILTER

**HE21 HEAGC**

**HE22 HEAGC**

*IF (Respondent Age Age > 0) AND (age first told had congestive heart failure = RESPONSE)  
[IAgeOf > 0 AND HeAgc = RESPONSE]*

CHECK: age first told had congestive heart failure <= Respondent Age [HeAgc <= IAgeOf ]

INTERVIEWER: ^IName[Pnum] is only ^iageof[Pnum] now!  
Please change!

END CHECK

END OF FILTER

*IF age first told had congestive heart failure = RESPONSE [HeAgc = RESPONSE]*

CHECK: *age first told had congestive heart failure > 35* [HeAgc > 35 ]

This seems young (^heagc), can I check?

END CHECK

END OF FILTER

**HE23 HEAGCRY**

**HE24 HEAGCRY**

*IF (Interview Date = RESPONSE) AND (month told had congestive heart failure = RESPONSE)  
AND (year told had congestive heart failure = RESPONSE) [QInit.IntDat = RESPONSE AND  
HeAgcR = RESPONSE AND HeAgcRY = RESPONSE]*

CHECK: Interview Date >= TODATE (year told had congestive heart failure, month told had congestive

heart failure.ORD, 1) [QInit.IntDat >= TODATE HeAgcRY, HeAgcR.ORD, 1 ]

INTERVIEWER: This date is in the future (^HEAgcR ^HEAgcRY)! Please change!

END CHECK

END OF FILTER

*IF (Previous Interview Date = RESPONSE) AND (month told had congestive heart failure = RESPONSE)*

*AND (year told had congestive heart failure = RESPONSE)*

*[PrevDate = RESPONSE AND HeAgcR = RESPONSE AND HeAgcRY = RESPONSE]*

CHECK: Previous Interview Date <= TODATE (year told had congestive heart failure, month told had

congestive heart failure, 28) [PrevDate <= TODATE HeAgcRY, HeAgcR.ORD, 28 ]

INTERVIEWER: This date is before the date of ^IName[Pnum]'s last interview. Please check!

END CHECK

END OF FILTER

## **HE25 HEAGD**

*IF (Respondent Age > 0) AND (age first told had diabetes = RESPONSE)*

*[IAgeOf > 0 AND HeAgd = RESPONSE]*

CHECK: age first told had diabetes <= Respondent Age [HeAgd <= IAgeOf ]

INTERVIEWER: ^IName[Pnum] is only ^iageof[Pnum] now!  
Please change!

END CHECK

END OF FILTER

## **HE26 HEAGDRY**

## **HE27 HEAGDRY**

*IF ((Interview Date = RESPONSE) AND (month told had diabetes = RESPONSE)) AND (year told had diabetes = RESPONSE) [QInit.IntDat = RESPONSE AND HeAgdR = RESPONSE AND HeAgdRY =*

*RESPONSE]*

CHECK: Interview Date >= TODATE (year told had diabetes, month told had diabetes.ORD, 1)

[QInit.IntDat >= TODATE HeAgdRY, HeAgdR.ORD, 1 ]

INTERVIEWER: This date is in the future (^HEAgcR ^HEAgcRY)! Please change!

END CHECK

END OF FILTER

*IF ((Previous Interview Date = RESPONSE) AND (Month told had diabetes = RESPONSE))  
AND (Year told  
| had diabetes = RESPONSE) [PrevDate = RESPONSE AND HeAgdR = RESPONSE AND  
HeAgdRY =  
| RESPONSE]*

*CHECK: Previous Interview Date <= TODATE  
| (year told had diabetes, month told had diabetes.ORD, 28)  
| [PrevDate <= TODATE HeAgdRY, HeAgdR.ORD, 28 ]  
| INTERVIEWER: This date is before the date of ^IName[Pnum]'s last interview. Please  
| check!*

*END CHECK*

*END OF FILTER*

**HE28 HESLFCY**

*CHECK: year had diabetes management training <= Interview Date  
| [Heslfcy <= QInit.IntDat.YEAR ]*

*You have entered a future year, please check and amend.*

*END CHECK*

*CHECK: year had diabetes management training > (Interview Date.YEAR - AgeP)  
| [Heslfcy > QInit.IntDat.YEAR - AgeP]*

*That is before the respondent was born, please check and amend.*

*END CHECK*

**HE29 HEAGE**

**HE30 HEAGE**

*IF (Respondent Age > 0) AND (Age first told had stroke = RESPONSE)  
| [IAgeOf > 0 AND HeAge = RESPONSE]*

*CHECK: age first told had a stroke <= Respondent Age [HeAge <= IAgeOf ]  
| INTERVIEWER: ^IName[Pnum] is only ^iageof[Pnum] now!  
| Please change!*

*END CHECK*

*END OF FILTER*

*IF age first told had a stroke = RESPONSE [HeAge = RESPONSE]  
| [HeAge = RESPONSE]*

*CHECK: age first told had a stroke > 35 [HeAge > 35 ]*

*This seems young (^heage), can I check?*

*END CHECK*

*END OF FILTER*

**HE31 HEAGERY**

**HE32 HEAGERY**

*IF ((Interview Date= RESPONSE) AND (Month told had stroke = RESPONSE)) AND (Year told had stroke = RESPONSE) [QInit.IntDat = RESPONSE AND HeAgeR = RESPONSE AND HeAgeRY = RESPONSE]*

CHECK: Interview Date >= TODATE (HeAgeRY, HeAgeR.ORD, 1)  
[QInit.IntDat >= TODATE HeAgeRY, HeAgeR.ORD, 1]

INTERVIEWER: This date is in the future (^HeAgeR ^HeAgeRY)! Please change!

END CHECK

END OF FILTER

*IF ((Previous Interview Date = RESPONSE) AND (Month told had stroke = RESPONSE)) AND (Year told had stroke = RESPONSE) [PrevDate = RESPONSE AND HeAgeR = RESPONSE AND HeAgeRY = RESPONSE]*

CHECK: PrevDate <= TODATE (year told had a stroke, month told had a stroke.ORD, 28)  
[PrevDate <= TODATE HeAgeRY, HeAgeR.ORD, 28]

INTERVIEWER: This date is before the date of ^IName[Pnum]'s last interview. Please check!

END CHECK

END OF FILTER

**HE33 HEDIAB**

**HE34 HEDIAB**

*IF types of chronic condition = None [HeDiab = None]*

CHECK: types of chronic condition.CARDINAL = 1 [HeDiab.CARDINAL = 1]

INTERVIEWER: 'None' is an exclusive code at this question.  
Please change!

END CHECK

END OF FILTER

LOOP FOR Idx:= 1 TO 9

*IF Reason chronic condition disputed = Has Now [HeDiaM = 3]*

CHECK: (Idx = types of chronic condition) INVOLVING (types of chronic condition)  
[Idx = HeDiab INVOLVING HeDiab]

INTERVIEWER: Respondent has reported they have ^XCon[idx] at a previous question (reason chronic condition disputed).  
Please add code ^idx to this question.

END CHECK

END OF FILTER

|  
END OF FILTER

**HE35 HEAGF**

*IF (Respondent Age > 0) AND (When first told had arthritis = RESPONSE)  
[IAgeOf > 0 AND HeAgf = RESPONSE]*

CHECK: age first told had arthritis <= Respondent Age [HeAgf <= IAgeOf ]

INTERVIEWER: ^IName[Pnum] is only ^iageof[Pnum] now!  
Please change!

END CHECK

END OF FILTER

**HE36 HEAGFRY**

**HE37 HEAGFRY**

*IF (Interview Date = RESPONSE) AND (Month told had arthritis = RESPONSE) AND (Year  
told had arthritis = RESPONSE)*

*[QInit.IntDat = RESPONSE AND HeAgfR =RESPONSE AND HeAgfRY = RESPONSE]*

CHECK: Interview Date >= TODATE (age told had arthritis, month told had arthritis.ORD, 1)  
[QInit.IntDat >= TODATE HeAgfRY, HeAgfR.ORD, 1 ]

INTERVIEWER: This date is in the future (^HeAgfR ^HeAgfRY)! Please change!

END CHECK

END OF FILTER

*IF ((Previous Interview Date = RESPONSE) AND (Month told had arthritis = RESPONSE)) AND  
(Year told had arthritis = RESPONSE)*

*[PrevDate = RESPONSE AND HeAgfR RESPONSE AND HeAgfRY = RESPONSE]*

CHECK: PrevDate <= TODATE (age told had arthritis, month told had arthritis.ORD, 28)  
[PrevDate <= TODATE HeAgfRY, HeAgfR.ORD, 28 ]

INTERVIEWER: This date is before the date of ^IName[Pnum]'s last interview. Please  
check!

END CHECK

END OF FILTER

**HE38 HEAGG**

**HE39 HEAGG**

*IF (Respondent Age > 0) AND (Age first told had cancer = RESPONSE)  
[IAgeOf > 0 AND HeAgg = RESPONSE]*

CHECK: age first told had cancer <= Respondent Age [HeAgg <= IAgeOf ]

INTERVIEWER: ^IName[Pnum] is only ^iageof[Pnum] now!  
Please change!

END CHECK

END OF FILTER

*IF age first told had cancer = RESPONSE [HeAgg = RESPONSE]*

CHECK: age first told had cancer > 35 [HeAgg > 35 ]

This seems young (^heagg), can I check?

END CHECK

END OF FILTER

**HE40 HEAGGRY**

**HE41 HEAGGRY**

*IF (Interview Date = RESPONSE) AND (Month told had cancer = RESPONSE) AND (Year told had cancer = RESPONSE)*

*[QInit.IntDat = RESPONSE AND HeAggR = RESPONSE AND HeAggRY = RESPONSE]*

CHECK: Interview Date >= TODATE (year told had cancer, month told had cancer, 1)

[QInit.IntDat >= TODATE HeAggRY, HeAggR.ORD, 1 ]

INTERVIEWER: This date is in the future (^HeAggR ^HeAggRY)! Please change!

END CHECK

END OF FILTER

*IF (Previous Interview Date = RESPONSE) AND (Month told had cancer = RESPONSE) AND (Year*

*told had cancer = RESPONSE)*

*[PrevDate = RESPONSE AND HeAggR = RESPONSE AND HeAggRY = RESPONSE]*

CHECK: PrevDate <= TODATE (year told had cancer, month told had cancer.ORD, 28)

[PrevDate <= TODATE HeAggRY, HeAggR.ORD, 28 ]

INTERVIEWER: This date is before the date of ^IName[Pnum]'s last interview. Please check!

END CHECK

END OF FILTER

**HE42 HEPRK**

**HE43 HEPRK**

*IF (Respondent Age > 0) AND (Age first told had Parkinson's disease = RESPONSE)*

*[IAgeOf > 0 AND HePrk = RESPONSE]*

CHECK: age first told had Parkinson's disease <= Respondent Age [HePrk <= IAgeOf]

INTERVIEWER: ^IName[Pnum] is only ^iageof[Pnum] now!

Please change!

END CHECK

END OF FILTER

*IF age first told had Parkinson's disease = RESPONSE [HePrk = RESPONSE]*

|

CHECK: age first told had Parkinson's disease > 50 [HePrk > 50 ]

This seems young (^heprk), can I check?

END CHECK

END OF FILTER

**HE44 HEPKRY**

**HE45 HEPKRY**

*IF Interview Date = RESPONSE [QInit.IntDat = RESPONSE]*

CHECK: Interview Date >= TODATE

(year told had Parkinson's disease, month told had Parkinson's disease.ORD, 1)

[QInit.IntDat >= TODATE HePrkRY, HePrkR.ORD, 1 ]

INTERVIEWER: This date is in the future (^HePrkR ^HePrkRY)! Please change!

END CHECK

END OF FILTER

*IF ((Previous Interview Date = RESPONSE) AND (Month told had Parkinson's disease = RESPONSE)) AND (Year told had Parkinson's disease = RESPONSE)*

*[PrevDate = RESPONSE AND HePrkR = RESPONSE AND HePrkRY = RESPONSE]*

CHECK: PrevDate <= TODATE

(year told had Parkinson's disease, month told had Parkinson's disease.ORD, 28)

[PrevDate <= TODATE HePrkRY, HePrkR.ORD, 28 ]

INTERVIEWER: This date is before the date of ^IName[Pnum]'s last interview. Please check!

END CHECK

END OF FILTER

**HE46 HEAGH**

*IF (Respondent Age > 0) AND (Age first told had psychiatric problems = RESPONSE)*

*[IAgeOf > 0 AND HeAgh = RESPONSE]*

CHECK: age first told had psychiatric problems <= Respondent Age [HeAgh <= IAgeOf ]

INTERVIEWER: ^IName[Pnum] is only ^iageof[Pnum] now!  
Please change!

END CHECK

END OF FILTER

**HE47 HEAGHRY**

**HE48 HEAGHRY**

*IF (Interview Date = RESPONSE) AND (Month told had psychiatric problems = RESPONSE)*

*AND*

*(Year told had psychiatric problems = RESPONSE)*

[QInit.IntDat = RESPONSE AND HeAghR = RESPONSE AND HeAghRY = RESPONSE]

CHECK: Interview Date >= TODATE

(year told had psychiatric problems, month told had psychiatric problems.ORD, 1)

[QInit.IntDat >= TODATE HeAghRY, HeAghR.ORD, 1 ]

INTERVIEWER: This date is in the future (^HEAghR ^HEAghRY)! Please change!

END CHECK

END OF FILTER

IF (Previous Interview Date = RESPONSE) AND (Month told had psychiatric problems = RESPONSE)

AND (Year told had psychiatric problems = RESPONSE)

[PrevDate = RESPONSE AND HeAghR = RESPONSE AND HeAghRY = RESPONSE]

CHECK: PrevDate <= TODATE

(year told had psychiatric problems, month told had psychiatric problems.ORD, 28)

[PrevDate <= TODATE HeAghRY, HeAghR.ORD, 28 ]

INTERVIEWER: This date is before the date of ^IName[Pnum]'s last interview. Please check!

END CHECK

END OF FILTER

**HE49 HEAGI**

**HE50 HEAGI**

IF (Respondent Age > 0) AND (Age first told had Alzheimer's = RESPONSE) [IAgeOf > 0 AND HeAgi =

RESPONSE]

CHECK: age first told had Alzheimer's disease <= Respondent Age [HeAgi <= IAgeOf ]

INTERVIEWER: ^IName[Pnum] is only ^iageof[Pnum] now!  
Please change!

END CHECK

END OF FILTER

IF age first told had Alzheimer's disease = RESPONSE [HeAgi = RESPONSE]

CHECK: age first told had Alzheimer's disease > 50 [HeAgi > 50 ]

This seems young (^heagi), can I check?

END CHECK

END OF FILTER

**HE51 HEAGIRY**

**HE52 HEAGIRY**

IF (Interview Date = RESPONSE) AND (Month told had Alzheimer's = RESPONSE) AND  
(Year told had Alzheimer's = RESPONSE)

[QInit.IntDat = RESPONSE AND HeAgiR = RESPONSE AND HeAgiRY = RESPONSE]

CHECK: Interview Date >= TODATE

(year told had Alzheimer's disease, month told had Alzheimer's disease.ORD, 1)

[QInit.IntDat >= TODATE HeAgiRY, HeAgiR.ORD, 1 ]

INTERVIEWER: This date is in the future (^HeAgiR ^HeAgiRY)! Please change!

END CHECK

END OF FILTER

IF (Previous Interview Date = RESPONSE) AND (Month told had Alzheimer's = RESPONSE)  
AND

(Year told had Alzheimer's = RESPONSE)

[PrevDate = RESPONSE AND HeAgiR = RESPONSE AND HeAgiRY = RESPONSE]

CHECK: PrevDate <= TODATE

(year told had Alzheimer's disease, month told had Alzheimer's disease.ORD, 28)

[PrevDate <= TODATE HeAgiRY, HeAgiR.ORD, 28 ]

INTERVIEWER: This date is before the date of ^IName[Pnum]'s last interview. Please check!

END CHECK

END OF FILTER

### HE53 HEAGJ

### HE54 HEAGJ

IF (Respondent Age > 0) AND (age first told had dementia = RESPONSE)

[IAgeOf > 0 AND HeAgj = RESPONSE]

CHECK: age first told had dementia <= Respondent Age [HeAgj <= IAgeOf ]

INTERVIEWER: ^IName[Pnum] is only ^iageof[Pnum] now! Please change!

END CHECK

END OF FILTER

IF age first told had dementia = RESPONSE [HeAgj = RESPONSE]

CHECK: age first told had dementia > 50 [HeAgj > 50 ]

This seems young (^heagj), can I check?

END CHECK

END OF FILTER

### HE55 HEAGJRY

### HE56 HEAGJRY

IF (Interview Date = RESPONSE) AND (month told had dementia = RESPONSE) AND

(Year told had dementia = RESPONSE)

[QInit.IntDat = RESPONSE AND HeAgjR = RESPONSE AND HeAgjRY = RESPONSE]

```
| CHECK: Interview Date >= TODATE (year told had dementia, month told had dementia.ORD,  
1)  
| [QInit.IntDat >= TODATE year told had dementia, month told had dementia.ORD, 1 ]  
| INTERVIEWER: This date is in the future (^HeAgjR ^HeAgjRY)! Please change!  
|  
| END CHECK  
|  
| END OF FILTER
```

```
IF (Previous Interview Date = RESPONSE) AND (Month told had memory impairment =  
RESPONSE)
```

```
AND (Year told had memory impairment = RESPONSE)  
[PrevDate = RESPONSE AND HeAgjR = RESPONSE AND HeAgjRY = RESPONSE]
```

```
CHECK: PrevDate <= TODATE (year told had dementia, month told had dementia, 28)  
| [PrevDate <= TODATE HeAgjRY, HeAgjR.ORD, 28]  
| INTERVIEWER: This date is before the date of ^IName[Pnum]'s last interview. Please  
| check!
```

```
END CHECK
```

```
END OF FILTER
```

#### **HE57 HEFLB**

```
IF (whether post-interview editing question = Yes) AND (Number of times fallen down =  
RESPONSE) [EditQre = 1 AND HeFlb = RESPONSE]
```

```
CHECK: (number of times fallen down > 0) INVOLVING (whether fallen down, number of  
times fallen
```

```
down)  
| [HeFlb > 0 INVOLVING HeFla, HeFlb]
```

```
EDIT: Number of Falls  
number of times fallen down=0  
Please change whether fallen down to 'no'.
```

```
END CHECK
```

```
END OF FILTER
```

#### **HE58 HEAID**

```
IF walking aids used = None [HeAid = None]
```

```
CHECK: walking aids used.CARDINAL = 1 [HeAid.CARDINAL = 1 ]
```

```
'None of these' is an exclusive code for this question.
```

```
END CHECK
```

```
END OF FILTER
```

#### **HE59 HEAIDW**

```
IF walking aids used = RESPONSE [HeAidW = RESPONSE]
```

```
LOOP FOR idx:= 1 TO 8
```

```
| IF idx = walking aids used [HeAidW = idx]
| | CHECK: (idx = walking aids used (wave 1)) INVOLVING (type of walking aid disputed)
| | [idx =IW1[PNum].HeAid INVOLVING HeAidW ]
| | INTERVIEWER: You cannot use this code.
| | END CHECK
| | END OF FILTER
| END OF FILTER
END OF FILTER
```

### **HE60 HEADLA**

```
| IF None = activities has difficulties doing (set A) [None = HeADLa]
```

```
| | CHECK: activities has difficulties doing (set A).CARDINAL = 1
| | [HeADLa.CARDINAL = 1 ]
| | INTERVIEWER: 'None' is an exclusive code at this question.
| | Please change!
| | END CHECK
| END OF FILTER
```

### **HE61 HEADLB**

```
| IF activities has difficulties doing (set B) = None [None = HeADLb]
```

```
| | CHECK: activities has difficulties doing (set B).CARDINAL = 1 [HeADLb.CARDINAL = 1 ]
| | INTERVIEWER: 'None' is an exclusive code at this question.
| | Please change!
| | END CHECK
| END OF FILTER
```

### **HE62 HEAID**

```
| IF walking aids used = None [HeAid = None]
```

```
| | CHECK: walking aids used.CARDINAL = 1 [HeAid.CARDINAL = 1]
| | INTERVIEWER: 'None' is an exclusive code at this question.
| | Please change!
| | END CHECK
| END OF FILTER
```

### **HE 63 HEAIDW**

```
| IF type of walking aid disputed = RESPONSE [HeAidW = RESPONSE]
```

```
| | LOOP FOR idx:= 1 TO 8
```

```
|
| IF type of walking aid disputed = idx [HeAidW = idx]
| | CHECK: (idx = walking aids used (wave 1) INVOLVING (type of walking aid disputed)
| | | [idx =W1[PNum].HeAid INVOLVING HeAidW ]
| | | INTERVIEWER: You cannot use this code.
| | END CHECK
| END OF FILTER
| END OF FILTER
| END OF FILTER
| END OF FILTER
```

**HE64 HESKC**  
**HE65 HESKC**  
**HE66 HESKC**  
**HE67 HESKC**

```
IF number of cigarettes smoked on weekday = RESPONSE [HeSkb = RESPONSE]
```

```
| CHECK: number of cigarettes smoked on weekday <= 200 [HeSkb <= 200 ]
| | INTERVIEWER: This is more than 200 a day. Please change.
| END CHECK
| CHECK: number of cigarettes smoked on <= 60 [HeSkb <= 60 ]
| | INTERVIEWER: This seems high (^heskb). Please check.
| END CHECK
| END OF FILTER
```

```
IF number of cigarettes smoked a day at weekends = RESPONSE [HeSkc = RESPONSE]
```

```
| CHECK: number of cigarettes smoked a day at weekends <= 200 [HeSkc <= 200 ]
| | INTERVIEWER: This is more than 200 a day. Please change.
| END CHECK
| CHECK: number of cigarettes smoked a day at weekends <= 60 [HeSkc <= 60 ]
| | INTERVIEWER: This seems high (^heskc). Please check.
| END CHECK
| END OF FILTER
```

**HE68 HETBB**  
**HE69 HETBB**  
**HE70 HETBB**

*IF amount of tobacco smoked on weekday = RESPONSE [HETbb = RESPONSE]*

CHECK: amount of tobacco smoked on weekday <= 200 [HETbb <= 200]

INTERVIEWER: This is more than 200 a day. Please change.

END CHECK

*IF tobacco smoked on weekday - whether grams or ounces reported = Ounces [HeTba = 2]*

CHECK: amount of tobacco smoked on weekday <= 4 [HETbb <= 4]

INTERVIEWER: This seems high (^hetbb ^hetba). Please check.

END CHECK

ELSE

CHECK: amount of tobacco smoked on weekday <= 120 [HETbb <= 120]

INTERVIEWER: This seems high (^hetbb ^hetba). Please check.

END CHECK

END OF FILTER

END OF FILTER

**HE71 HETBD**

**HE72 HETBD**

**HE73 HETBD**

*IF amount of tobacco smoked a day at weekends = RESPONSE [HETbd = RESPONSE]*

CHECK: amount of tobacco smoked a day at weekends <= 200 [HETbd <= 200 ]

INTERVIEWER: This is more than 200 a day. Please change.

END CHECK

*IF amount of tobacco smoked a day at weekends = Ounces [HeTbc =2]*

CHECK: amount of tobacco smoked a day at weekends <= 4 [HETbd <= 4 ]

INTERVIEWER: This seems high (^hetbd ^hetbc). Please check.

END CHECK

ELSE

CHECK: amount of tobacco smoked a day at weekends <= 120 [HETbd <= 120 ]

INTERVIEWER: This seems high (^hetbd ^hetbc). Please check.

END CHECK

END OF FILTER

|  
END OF FILTER