

### 3 - 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 [HeIII = 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)
- 3 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 int) = 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

Description	Variable	Archive
Whether confirms glaucoma diagnosis	HeOpC1	Heopcgl
Whether confirms diabetic eye disease diagnosed	HeOpC2	Heopcdi
Whether confirms macular degeneration diagnosis	HeOpC3	Heopcnd
Whether confirms cataract diagnosis	HeOpC4	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

Description	Variable	Archive
Reason disputed glaucoma diagnosis fed forward	HeOpN1	Heopngl
Reason disputed diabetic eye disease diagnosis fed forward	HeOpN2	Heopndi
Reason disputed macular degeneration diagnosis fed forward	HeOpN3	Heopnmd
Reason disputed cataract diagnosis fed forward	HeOpN4	Heopnca

END OF FILTER

*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

Description	Variable	Archive
Whether still has glaucoma	HeOpS1	Heoptgl
Whether still has diabetic eye disease	HeOpS2	Heoptdi
Whether still has macular degeneration	HeOpS3	Heoptmd
Whether still has cataract	HeOpS4	Heoptca

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.

INTERVIEWER: INCLUDE DIABETIC RETINOPATHY IN CODE 2.

INTERVIEWER: 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

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

Description	Variable	Archive
Eye: glaucoma diagnosis newly reported	HeOpt1	Heoptgl
Eye: diabetic eye disease diagnosis newly reported	HeOpt2	Heoptdi
Eye: macular degeneration diagnosis newly reported	HeOpt3	Heoptmd
Eye: cataract diagnosis newly reported	HeOpt4	Heoptca
Eye: no diagnosis newly reported	HeOpt96	HeOpt96

**[CHECK HE7-HE9]**

IF ((types of eye conditions = cataract OR (types of eye conditions at last interview = cataract AND whether confirms previous eye condition = yes)  
OR  
(types of eye conditions at last interview = cataract AND confirms had it but does not have any longer or did not have previously but have now) AND (eyesight condition = fair, poor, blind OR eyesight at a distance = fair, poor OR eyesight up close = fair, poor)  
AND  
not previously answered Yes to this question)  
[IF ((HeOpT = 4 OR (HeOpT (Last int) = 4 AND HeOpC4 = 1)  
OR  
HeOpT (Last Int) = 4 AND HeOpC4 = 1 AND HeOpN <> 1, 4) AND (Heeye = 4, 5, 6 OR Hefrnd = 4, 5  
OR Hepap = 4, 5)  
AND  
Previous wave HeDrEye <> Yes)]

**HEDREYE (archive: 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 = cataracts) OR (whether confirms previous eye condition = yes) OR (why disputes condition = no longer has)) AND whether anyone recommended cataracts removed =yes

(((HeOpT = 4) OR ((HeOpC = 1) OR (HeOpN = 2)) AND HeDrEye = 1))

**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

IF whether has had cataract surgery = Yes [HeCat = 1]

**HECATN**

Was [^your/[^name's]] 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. COUNT AS PRIVATE IF THE OPERATION WAS ON NHS PREMISES BUT PAID FOR PRIVATELY.

- 1 Privately/Insurance
- 2 NHS

3 Both

END OF FILTER

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

**HESSME**

Is your sense of smell...

INTERVIEWER: READ OUT

- 01 Excellent
- 02 Very good
- 03 Good
- 04 Fair
- 05 Poor

**HESTAS**

Is your sense of taste...

@/@/INTERVIEWER: READ OUT

- 01 Excellent
- 02 Very good
- 03 Good
- 04 Fair
- 05 Poor

**HEDNTA\***

Would you say ^yourname[pnum] dental health (mouth, teeth and/or dentures) is INTERVIEWER: READ OUT

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

**HEDNTB\***

SHOW CARD C1

In the past 6 months, have any problems with ^yourname[pnum] mouth, teeth or dentures caused ^himher[pnum] to have any of the following?

INTERVIEWER: 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

**[Code maximum 5 out of 6 possible responses]**

Description	Variable	Archive
Difficulty eating food	Hedntb1	HeDntB1
Difficulty speaking clearly	Hedntb2	HeDntB2
Problems with smiling, laughing and showing teeth without embarrassment	Hedntb3	HeDntB3
Problems with emotional stability	Hedntb4	HeDntB4
Problems enjoying the company of other people	Hedntb5	HeDntB5
None of these	Hedntb96	HeDntB96

### HESWGH

Given your age and height, would you say that you are...

INTERVIEWER: READ OUT

- 01 About the right weight
- 02 Too heavy
- 03 Too light

### HESWGHA

At the present time, are you...

INTERVIEWER: READ OUT

- 01 Trying to lose weight
- 02 Trying to gain weight
- 03 Not trying to change your weight

**IF (age >= 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 cardiovascular disease condition at last interview = RESPONSE)**

**AND**

**NOT (type of cardiovascular disease condition at last interview = none)**

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

**Variables with feed forward information for each condition are:**

Description	Variable	Archive
Feed-forward: First mentioned condition	HeDiaW	Hedawbp
Feed-forward: Second mentioned condition	HeDiaW2	Hedawan
Feed-forward: Third mentioned condition	HeDiaW3	Hedawmi
Feed-forward: Fourth mentioned condition	HeDiaW4	Hedawhf
Feed-forward: Fifth mentioned condition	HeDiaW5	Hedawhm
Feed-forward: Six mentioned condition	HeDiaW6	Hedawar
Feed-forward: Seventh mentioned condition	HeDiaW7	Hedawdi
Feed-forward: Eight mentioned condition	HeDiaW8	Hedawst
Feed-forward: Ninth mentioned condition	HeDiaW9	Hedawch
Feed-forward: Other mentioned condition	HeDiaW10	Hedaw95 (previously archived as 'hedawot')

**LOOP FOR EACH CARDIOVASCULAR DISEASE 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

Description	Variable	Archive
Whether confirms high blood pressure diagnosis	HeDiaC	Hedacbp
Whether confirms angina diagnosis	HeDiaC2	Hedacan
Whether confirms heart attack diagnosis	HeDiaC3	Hedacmi
Whether confirms congestive heart failure diagnosis	HeDiaC4	Hedachf
Whether confirms heart murmur diagnosis	HeDiaC5	Hedachm
Whether confirms abnormal heart rhythm diagnosis	HeDiaC6	Hedacar
Whether confirms diabetes or high blood sugar diagnosis	HeDiaC7	Hedacdi
Whether confirms stroke diagnosis	HeDiaC8	Hedacst
Whether confirms high cholesterol diagnosis	HeDiaC9	Hedacch
Whether confirms other heart disease diagnosis	HeDiaC10	Hedac95 (previously archived as 'hedacot')

*IF whether confirms previous cardiovascular disease 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

Description	Variable	Archive
Reason disputed high blood pressure diagnosis fed forward	HeDiaN	Hedanbp
Reason disputed angina diagnosis fed forward	HeDiaN2	Hedanan
Reason disputed heart attack diagnosis fed forward	HeDiaN3	Hedanmi
Reason disputed congestive heart failure diagnosis fed forward	HeDiaN4	Hedanhf
Reason disputed heart murmur diagnosis fed forward	HeDiaN5	Hedanhm
Reason disputed abnormal heart rhythm diagnosis fed forward	HeDiaN6	Hedanar
Reason disputed diabetes or high blood sugar diagnosis fed forward	HeDiaN7	Hedandi
Reason disputed stroke diagnosis fed forward	HeDiaN8	Hedanst
Reason disputed high cholesterol diagnosis fed forward	HeDiaN9	Hedanch
Reason disputed other heart disease diagnosis fed forward	HeDiaN10	Hedan95 (previously archived as 'hedanot')

END OF FILTER

*IF (whether confirms previous cardiovascular disease condition = yes) AND (cardiovascular disease condition at last interview =[high blood pressure,angina,congestive heart failure,heart murmur,abnormal heart rhythm,high cholesterol,other heart disease])*  
 [(HeDiaC = 1) AND ANY(1, HeDiaN, HeDiaN2, HeDiaN4, HeDiaN5, HeDiaN6 , HeDiaN9, HeDiaN10)]

**HEDIAS\***

[^Do you / Does [^name]] still have [^high blood pressure or hypertension / angina / congestive heart failure / heart murmur / abnormal heart rhythm / high cholesterol / other heart disease]?

INTERVIEWER: IF SPONTANEOUSLY SAYS THAT IT IS CONTROLLED BY TREATMENT CODE 'Yes'.

- 1 Yes
- 2 No

Description	Variable	Archive
Whether still has high blood pressure	HeDiaS	Hedasbp
Whether still has angina	HeDiaS2	Hedasan
Whether still has congestive heart failure	HeDiaS4	Hedashf
Whether still has heart murmur	HeDiaS5	Hedashm
Whether still has abnormal heart rhythm	HeDiaS6	Hedasar
Whether still has high cholesterol	HeDiaS9	Hedasch
Whether still has other heart disease	HeDiaS10	Hedas95 (previously

END OF FILTER

END OF LOOP

END OF FILTER

**HEDIAA\***

SHOW CARD C2

[^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?'

INTERVIEWER: 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

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

Cardiovascular Disease New	Variable	Archive
High blood pressure or hypertension	HeDiaa1	Hediabp
Angina	HeDiaa2	Hediaan
A heart attack	HeDiaa3	Hediami
Congestive heart failure	HeDiaa4	Hediahf
A heart murmur	HeDiaa5	Hediahm
An abnormal heart rhythm	HeDiaa6	Hediaar
Diabetes or high blood sugar	HeDiaa7	Hediadi
A stroke	HeDiaa8	Hedias
High cholesterol	HeDiaa9	Hediach
Any other heart trouble	HeDiaa95	Hedia95
None of these	HeDiaa96	Hedia96

**[CHECK HE12-HE13]**

*IF type of cardiovascular disease condition = other [HeDiaa = 95]*

**HEDIX\***

INTERVIEWER: Enter name of other heart condition.

**[Open responses to HEDIX are coded and merged with the multiple responses to HEDIAA in the following variables:]**

<b>Description (Merged Variables)</b>	<b>Archive</b>
Cardiovascular disease: high blood pressure diagnosis newly reported (merged)	Hedimbp
Cardiovascular disease: angina diagnosis newly reported (merged)	Hediman
Cardiovascular disease: heart attack diagnosis newly reported (merged)	Hedimmi
Cardiovascular disease: congestive heart failure diagnosis newly reported (merged)	Hedimhf
Cardiovascular disease: heart murmur diagnosis newly reported (merged)	Hedimhm
Cardiovascular disease: abnormal heart rhythm diagnosis newly reported (merged)	Hedimar
Cardiovascular disease: diabetes or high blood sugar diagnosis newly reported (merged)	Hedimdi
Cardiovascular disease: stroke diagnosis newly reported (merged)	Hedimst
Cardiovascular disease: high cholesterol diagnosis newly reported (merged)	Hedimch
Cardiovascular disease: heart disease diagnosis newly reported does not fit codes	Hedim85
Cardiovascular disease: other heart disease: irrelevant response given	Hedim86
Cardiovascular disease: no new diagnosis reported	Hedim96

END OF FILTER

**[CHECK HE14]**

*IF (type of cardiovascular disease condition = high blood pressure) OR (type of cardiovascular disease condition at last interview = high blood pressure AND reason for disputing high blood pressure = No longer has, did not have previously, but has now*

Neverhad the condition, Misdiagnosed)

[(HeDiaa = 1) OR ((HeDiaa (Last int) = 1 AND HeDiaN = 2 AND HeDiaN =3))]

**HEHIBPB (archive: HEHBPB)**

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

END OF FILTER

IF ((type of cardiovascular disease condition = high blood pressure) OR ((type of cardiovascular disease condition at last interview = high blood pressure AND still has the previous condition = yes)) AND whether medication is taken =yes)

(((HeDiaa = 1) OR(HeDiaa (last int) = 1 AND HeDiaS = 1)) AND Hehibpb =1)]

**HEMDA\***

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

1 Yes

2 No

END OF FILTER

IF ((whether still has cardiovascular disease condition = no)

OR

(reason cardiovascular disease condition disputed= no longer has)

OR

(whether taking medication for the condition at last interview = yes)

OR

(whether taking medication to prevent high BP = yes)) AND whether taking medication for high BP <> EMPTY AND whether recommended medication to lower BP =Yes)

(((HeDiaN = 2)

OR

(HeDiaS = 2)

OR

(HEMdab (Last int) = 1)

OR

(HEMda = 1) AND (HEMda <> EMPTY) AND (Hehibpb =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 cardiovascular disease condition at last interview <> RESPONSE AND type of heart condition = angina

[HeDiaa (Last int) <> RESPONSE AND HeDiaa = 2]

**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 HE15-HE16]**

END OF FILTER

*IF ((type of cardiovascular disease condition = angina) AND (type of cardiovascular disease condition at last interview = RESPONSE) AND NOT (type of cardiovascular disease condition at last interview = angina))  
[((HeDiaa = 2) AND (HeDiaa (Last int) = RESPONSE) AND NOT (HeDiaa (Last int) = 2))]*

**HEAGAR**

When were you first told by a doctor that you had angina?

INTERVIEWER: ENTER RESPONSE IN MONTH AND YEAR.

INTERVIEWER: 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

**HEAGARY**

INTERVIEWER: ENTER THE **YEAR** AT THIS QUESTION.

Range: 1900..2200

**[CHECK HE17-HE18]**

END OF FILTER

*IF type of cardiovascular disease 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 condition at last interview <> RESPONSE AND type of condition = heart attack [(HeDiaa (Last int) <> RESPONSE) AND (HeDiaa = 3)]*

**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 HE19-HE20]**

END OF FILTER

*IF (type of cardiovascular disease condition = heart attack) AND (type of cardiovascular disease*

*condition at last interview = RESPONSE) AND (type of cardiovascular disease condition at last interview <> heart attack)*

*[(HeDiaa = 3) AND (HeDiaa (Last int) = RESPONSE) AND (HeDiaa (Last int) <> 3)]*

**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.

INTERVIEWER: 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

**HEAGBRY\***

INTERVIEWER: ENTER THE **YEAR** AT THIS QUESTION.

Range: 1900...2200

**[CHECK HE21 - HE22]**

END OF FILTER

*IF (type of cardiovascular disease condition = heart attack) OR (whether confirms previous cardiovascular disease condition = yes AND reason cardiovascular disease condition disputed <> Never had condition OR Misdiagnosed)*

*[(HeDiaa = 3) OR ((HeDiaC = 1) OR (HeDiaN <> 1) AND(HeDiaN <> 4))]*

**HENMMI\***

How many heart attacks (including myocardial infarction or coronary thrombosis) [^have you/ has [^name]] had in the last two years according to a doctor?

0 None

1 1

2 2

3 3 or more

END OF FILTER

*IF number of heart attacks = 1 or more [HeNmMI = 1,2,3]*

**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 beta blockers: Atenolol, metoprolol, acebutolol, metoprolol, propranolol, and timolol.'

1 Yes

2 No

END OF FILTER

*IF ((type of cardiovascular disease condition at Last interview <> RESPONSE) AND (type of*

*cardiovascular disease condition = congestive heart failure)) [(HeDiaa (Last int) <> RESPONSE) AND (HeDiaa = 4)]*

**HEAGC\***

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 congestive heart failure?

INTERVIEWER: ENTER AGE IN YEARS.

Range: 0..110

**[CHECK HE23 - HE24]**

END OF FILTER

*IF ((type of cardiovascular disease condition = congestive heart failure) AND (type of cardiovascular disease condition at last interview = RESPONSE) AND NOT (type of cardiovascular disease condition at last interview = congestive heart failure))  
[[(HeDiaa = 4) AND (HeDiaa (Last int) = RESPONSE) AND NOT (HeDiaa (Last int) = 4)]]*

**HEAGCR\***

When [<sup>^</sup>were you/ was [<sup>^</sup>name] first told by a doctor that [<sup>^</sup>you/ he/ she] had congestive heart failure?

INTERVIEWER: ENTER RESPONSE IN MONTH AND YEAR.

INTERVIEWER: 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

**HEAGCRY\***

INTERVIEWER: ENTER THE **YEAR** AT THIS QUESTION.

Range: 1900..2050

**[CHECK HE25-HE26]**

END OF FILTER

*IF (type of cardiovascular disease condition at Last interview <> RESPONSE) AND (type of cardiovascular disease condition = diabetes)  
[(HeDiaa (Last int) <> RESPONSE) AND HeDiaa = 7)]*

**HEAGD\***

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 diabetes or high blood sugar?

INTERVIEWER: ENTER AGE IN YEARS.

Range: 0..110

**[CHECK HE27]**

END OF FILTER

*IF ((type of cardiovascular disease condition = diabetes) AND (type of cardiovascular disease condition at Last interview = RESPONSE)  
AND NOT (type of cardiovascular disease condition at last interview = diabetes))  
[((HeDiaa = 7) AND (HeDiaa (Last int) = RESPONSE) AND NOT (HeDiaa (Last int) = 7))]*

**HEAGDR\***

When [<sup>^</sup>were you/ was [<sup>^</sup>name]] first told by a doctor that [<sup>^</sup>you/ he/ she] had diabetes or high blood sugar?

INTERVIEWER: ENTER RESPONSE IN MONTH AND YEAR.

INTERVIEWER: 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

**HEAGDRY\***

INTERVIEWER: ENTER THE **YEAR** AT THIS QUESTION.

Range: 1900..2050

**[CHECK HE28 - HE29]**

END OF FILTER

*IF ( ((told by doctor has diabetes at last interview = No OR told by doctor has diabetes at last interview = DK) AND (reason for disputing the condition <> Never had condition or Misdiagnosed)) OR (Whether confirms previous condition = yes AND whether told by doctor has diabetes at last interview <> RESPONSE)) AND (Not a proxy interview)) )  
OR  
(Type of cardiovascular disease condition = diabetes) AND (Proxy and non proxy interview)  
[( ((HeAcD (Last int) = No OR HeAcD (Last int) = DK) AND (HeDiaN <> 1, 4)) OR (HeDiaC = 1 AND HeAcD (Last Int)<> RESPONSE) AND Not a proxy interview) )  
OR (HeDiaa = 7) AND Proxy and non proxy interview]*

**HEACD\***

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

- 1 Yes
- 2 No

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

**HEINS\***

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

- 1 Yes
- 2 No

**HEMDB\***

[<sup>^</sup>Are you/ Is [<sup>^</sup>name]] currently taking any tablets, pills or other medication that [<sup>^</sup>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 C3

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 A2 RECEPTOR BLOCKERS. PRESS 1 IF YOU IDENTIFY ONE OF THE RESPONDENT'S MEDICATIONS AS BEING ON THE LIST OF ACE INHIBITORS OR A2 RECEPTOR BLOCKERS, OTHERWISE PRESS 2..

INTERVIEWER: 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]*

*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

***[Open responses to HEDIXB were coded and then incorporated into HEACEA.]***

END OF FILTER

END OF FILTER

*IF (type of cardiovascular disease condition at last interview = RESPONSE) AND (type of cardiovascular disease condition = stroke)*

*[(HeDiaa (Last int) = RESPONSE) AND (HeDiaa = 8)]*

**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 HE30 - HE31]**

END OF FILTER

*IF (type of cardiovascular disease condition = stroke) AND (type of cardiovascular disease 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.

INTERVIEWER: 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

**HEAGERY\***

INTERVIEWER: ENTER THE **YEAR** AT THIS QUESTION.

Range: 1900..2050

**[CHECK HE32 - HE33]**

END OF FILTER

*IF ((type of cardiovascular disease condition = stroke) OR ((type of cardiovascular disease condition at Last interview = stroke) AND (reason cardiovascular disease condition disputed <> Never had condition) AND (reason cardiovascular disease condition disputed <> Misdiagnosed))  
[(HeDiaa= 8) OR ((HeDiaa (Last int)= 8) AND (HeDiaN <> 1) AND (HeDiaN <> 4))]*

**HENMST\***

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

0 0

1 1

2 2

3 3 or more

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

**HEHIBPB1 (archive: HEHBPB1)**

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

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\***

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

1 Yes

2 No

END OF FILTER

**HEPBS\***

*[[^Do you / Does [^name]] have any remaining problems because of [^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 cardiovascular disease condition = high cholesterol) OR (confirms last wave high cholesterol condition*

*[(HeDiaa = 9) OR (HeDiaS = Yes) ]*

**HeChMd**

*[Arelspnum] [^youname[pnum]] currently taking any medication to lower [^yourhisher[pnum]] cholesterol level?*

1 Yes

2 No

END OF FILTER

IF (reason why disputes previous high cholesterol diagnosis is = no longer have it) OR (previously was taking high cholesterol medication and is interviewed in person and has not answered question HeChMd)

[[((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, ^areisl[pnum] ^youname[pnum] taking medication which prevents you from getting high cholesterol any more?

1 Yes

2 No

END OF FILTER

IF (type of cardiovascular disease condition = angina, heart attack) OR ((type of cardiovascular disease 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 = angina) OR (HeDiaC = heart attack)))]

**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?

INTERVIEWER: PLEASE ONLY INCLUDE ASPIRIN IF IT IS TAKEN AS A MEDICATION TO THIN THE BLOOD, ONCE A DAY IN A LOW DOSE.

1 Yes

2 No

IF whether advised to take blood thinning medication = yes [Hehrta = 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?

INTERVIEWER: PLEASE ONLY INCLUDE ASPIRIN IF IT IS TAKEN AS A MEDICATION TO THIN THE BLOOD, ONCE A DAY IN A LOW DOSE.

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

||

END OF FILTER

END OF FILTER

IF ((age >=55 AND age <=75) OR Sex =female AND age >=47 AND age <=73)) then

**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

IF age >= 55 AND age <= 75) then

**HEBOWD**

Have you ever completed the NHS bowel cancer screening test using the home test kit?

- 1 Yes
- 2 No

IF completed the NHS bowel cancer screening test

[HEBowD = Yes]

**HEYBOWT @**

How long ago was your most recent bowel cancer screening test?

INTERVIEWER: ENTER THE **YEAR** HERE.

: 1900..2050

[Responses are recoded in HEBOWTY]

**HEMBOWT @ (archive: HEBOWTM)**

How long ago was your most recent bowel cancer screening test?

INTERVIEWER: ENTER THE **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

END OF FILTER

END OF FILTER

IF (sex = female AND age >= 47 AND age <= 73)

[IF (ISex[PNum] = Female AND IAgeOf[Pnum] >= 47 AND IAgeOf[Pnum] <= 73)]

**HEMAMB**

Have you ever had breast cancer screening (a mammogram or x-ray of your breasts) as part of the NHS breast screening programme?

- 1 Yes
- 2 No

IF breast cancer screening as part of NHS programme=yes

[HeMamB=1]

**HEYMAMT @**

How long ago was your most recent breast screening mammogram?

INTERVIEWER: ENTER THE **YEAR** HERE.

: 1900..2050

**HEMMAMT @**

How long ago was your most recent breast screening mammogram?  
INTERVIEWER: ENTER THE **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

END OF FILTER

END OF FILTER

*IF sex = male [IF ISex[PNum] = 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 PSA blood test or examination to screen for prostate cancer =yes  
[HePro=1]*

**HEYPROT @**

How long ago was your most recent PSA test or other examination?  
INTERVIEWER: ENTER THE **YEAR** HERE."

/"When was most recent PSA test"  
: 1900..2050

**HEMPROT @**

How long ago was your most recent PSA test or other examination?  
INTERVIEWER: ENTER THE **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

END OF FILTER

END OF FILTER

END OF 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]

**Variables with feed forward information for each condition are:**

Description	Variable	Archive
Chronic lung disease feed forward	hedbwlu	hedbwlu
Asthma feed forward	hedbwas	hedbwas
Arthriti feed forward	hedbwar	hedbwar
Osteoporosis feed forward	hedbwos	hedbwos
Cancer or a malignant tumour feed forward	hedbwca	hedbwca
Parkinson's disease feed forward	hedbwpd	hedbwpd
An emotional, nervous or psychiatric problem feed forward	hedbwps	hedbwps
Alzheimer's disease feed forward	hedbwad	hedbwad
Dementia, senility or another serious memory feed forward	hedbwde	hedbwde
Malignant blood disorder feed forward	hedbwbl	hedbwbl
Multiple Sclerosis or Motor Neuron Disease feed forward	hedbwms	hedbwms

#### 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 / malignant blood disorder, e.g. leukaemia / Multiple Sclerosis or Motor Neurone Disease].

INTERVIEWER: CODE 1 BELOW UNLESS RESPONDENT SPONTANEOUSLY DISPUTES THIS RECORD.

1 Yes

2 No

3 Not read out as didn't make sense

Description	Variable	Archive
Chronic lung disease	HeDiaD	Hedbdlu
Asthma	HeDiaD2	Hedbdas
Arthritis	HeDiaD3	Hedbdar
Osteoporosis	HeDiaD4	Hedbdos
Cancer or a malignant tumour	HeDiaD5	Hedbdca
Parkinson's disease	HeDiaD6	Hedbdpd
An emotional, nervous or psychiatric problem	HeDiaD7	Hedbdps
Alzheimer's disease	HeDiaD8	Hedbdad
Dementia, senility or another serious memory	HeDiaD9	Hedbdde
Malignant blood disorder	HeDiaD10	Hedbdbli
Multiple Sclerosis or Motor Neuron Disease	HeDiaD11	Hedbdms

*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 / malignant blood disorder, e.g. leukaemia / Multiple Sclerosis or Motor Neurone Disease]. 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 condition]*

Description	Variable	Archive
Chronic lung disease	HeDiaM	Hedbmlu
Asthma	HeDiaM2	Hedbmas
Arthritis	HeDiaM3	Hedbdmar
Osteoporosis	HeDiaM4	Hedbdmos
Cancer or a malignant tumour	HeDiaM5	Hedmca
Parkinson's disease	HeDiaM6	Hedbmpd
An emotional, nervous or psychiatric problem	HeDiaM7	Hedbmpps
Alzheimer's disease	HeDiaM8	Hedbmad

Dementia, senility or another serious memory	HeDiaM9	Hedbmde
Malignant blood disorder	HeDiaM10	Hedbmbli
Multiple Sclerosis or Motor Neurone Disease	HeDiaM11	Hedbmms

END OF FILTER

*IF whether confirms previous chronic condition = yes AND condition is not emotional/nervour/psychiatric problem or Alzheimer's  
[IF HeDiaD = 1 and not (HeDiaM7 OR HeDiaM8)]*

**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 / dementia,  
senility or another serious memory impairment / malignant blood disorder, e.g. leukaemia / Multiple Sclerosis or Motor Neurone Disease]

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 condition]*

Description	Variable	Archive
Chronic lung disease	HeDiDS	Hedblu
Asthma	HeDiDS2	Hedbsas
Arthritis	HeDiDS3	Hedbsar
Osteoporosis	HeDiDS4	Hedbsos
Cancer or a malignant tumour	HeDiDS5	Hedsca
Parkinson's disease	HeDiDS6	Hedbspd
Dementia, senility or another serious memory	HeDiDS9	Hedbsde
Malignant blood disorder	HeDiDS10	Hedbsbl
Multiple Sclerosis or Motor Neurone Disease	HeDiDS11	Hedbsms

END OF FILTER

END OF FILTER

END OF FILTER

END OF FILTER

**HEDIAB\***

## SHOW CARD C4

[^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?'

INTERVIEWER: 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

11 Multiple Sclerosis or Motor Neurone Disease

96 None of these

**[code maximum 9 out of 10 possible responses]**

Description	Variable	Archive
Chronic lung disease	HeDiab	Hediblu
Asthma	HeDiab2	Hedibas
Arthritis	HeDiab3	Hedibar
Osteoporosis	HeDiab4	Hedibos
Cancer or a malignant tumour	HeDiab5	Hedibca
Parkinson's disease	HeDiab6	Hedibpd
Any emotional, nervous or psychiatric problems	ReDiab7	Hedibps
Alzheimer's disease	ReDiab8	Hedibad
Dementia, senility or another serious memory	HeDiab9	Hedibde
Malignant blood disorder	HeDiab10	Hedibbl
Multiple Sclerosis or Motor Neuron Disease	HeDiab11	Hedibms
None of these	HeDiab96	Hedib96

**[CHECK HE34 - HE35]**

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 = no longer has) OR (whether still has chronic lung disease = no) OR (was taking lung disease medication at last interview= yes))  
 AND (whether taking medication for condition <>RESPONSE)  
 [((HediaM = 2) OR (HedidS = 2) OR (HeLngB (last int)= Yes)) AND (HeLng <> RESPONSE)]

**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) [((HediaM = 2) OR (HedidS = 2))]*

**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?

**[code maximum 3 out of 3 possible responses]**

Description	Variable	Archive
Osteoarthritis	HeArt1	Heartoa
Rheumatoid arthritis	HeArt2	Heartra
Some other kind of arthritis	HeArt3	Heartot

*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))]*

**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 HE36]**

END OF FILTER

*IF ((type of chronic condition = arthritis) AND (type of chronic condition at Last interview = 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.

INTERVIEWER: 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

**HEAGFRY\***

INTERVIEWER: ENTER THE **YEAR** AT THIS QUESTION.

Range: 1900..2050

**[CHECK HE37 - HE38]**

END OF FILTER

END OF FILTER

*IF current chronic health condition = malignant blood disorder OR current blood disorder at last interview <> RESPONSE AND confirming previous malignant blood disorder = yes [(HeDiab = 10) OR ((HeLeuk (Last int) <> RESPONSE) AND (Hediad = 1))]*

**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/vitamin D pills = yes) [HeOste = 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 [^your /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\* (archived under SL; recoded variable HEAGGS – which suppresses outliers – is archived under EUL)**

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 HE39 – HE40]**

END OF FILTER

*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 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

**HEAGGRY\***

INTERVIEWER: ENTER THE **YEAR** AT THIS QUESTION.

Range: 1900..2050

*IF blood disorders = leukaemia or lymphoma [HeLeuk =1,2 ]*

**HEAGK**

Approximately how old [^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 AGE IN YEARS.

Range: 0..110

**HEAGKR**

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.

INTERVIEWER: ENTER THE **MONTH** AT THIS QUESTION.

**HEAGKRY**

INTERVIEWER: ENTER THE **YEAR** AT THIS QUESTION.

Range: 1900..2050

END OF FILTER

**[CHECK HE41 - HE42]**

END OF FILTER

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

**HECANAA\* (archived under SL; recoded variable HECANAAR - which collapses Leukaemia/Lymphoma categories – is archived under EUL)**

SHOW CARD C5

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 (blood disorders at last interview = leukaemia or lymphoma AND whether still has malignant blood disorders <> no longer has, misdiagnosed)  
[(HeLeuk = 1,2) OR ((HeLeuk (last int) = 1,2) AND (HeDiaM <> 2) AND (HeDiaM <> 4))*

**HECANBB**

During the last two years, [^his/her] [^you/[^name]] received any treatment for [^his/her] 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 HE43 - HE44]**

END OF FILTER

*IF ((type of chronic condition = Parkinson's disease) AND (type of chronic condition at last interview = RESPONSE) AND NOT (type of chronic condition at Last interview = Parkinson's disease))  
[((HeDiab = 6) AND (HeDiab (Last int) = RESPONSE) AND NOT (HeDiab (Last int) = 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.

INTERVIEWER: 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

**HEPRKRY\***

INTERVIEWER: ENTER THE YEAR AT THIS QUESTION.

Range: 1900..2050

**[CHECK HE45 - HE46]**

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\* (archived under SL; recoded variable HEAGHS – which suppresses outliers – is archived under EUL)**

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

INTERVIEWER: ENTER AGE IN YEARS.

Range: 0..110

**[CHECK HE47]**

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

INTERVIEWER: ENTER RESPONSE IN MONTH AND YEAR.

INTERVIEWER: 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

**HEAGHRY\***

INTERVIEWER: ENTER THE YEAR AT THIS QUESTION.

Range: 1900..2050

**[CHECK HE48 - HE49]**

END OF FILTER

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

SHOW CARD C6

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

INTERVIEWER: PROBE - 'What others?'

INTERVIEWER: CODE ALL THAT APPLY.

INTERVIEWER: 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

**[code maximum 9 out of 9 possible responses]**

Description	Variable	Archive
Hallucinations	HePsy1	Hepsyha
Anxiety	HePsy2	Hepsyan
Depression	HePsy3	Hepsyde
Emotional problems	HePsy4	Hepsyem
Schizophrenia	HePsy5	Hepsyse
Psychosis	HePsy6	Hepsyps
Mood swings	HePsy7	Hepsymo
Manic depression	HePsy8	Hepsyma
Something else	HePsy9	Hepsy95

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 HE50 - HE51]**

END OF FILTER

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.

INTERVIEWER: 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

**HEAGIRY\***

INTERVIEWER: ENTER THE **YEAR** AT THIS QUESTION.

Range: 1900..2050

**[CHECK HE52 - HE53]**

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

(HeAgi (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 HE54 - HE55]**

END OF FILTER

*IF ((type of chronic condition = memory impairment) AND (type of chronic condition at last interview = RESPONSE) AND NOT (type of chronic condition at Last interview = memory impairment))  
[[(HeDiab = 9) AND (HeDiab (Last int) = RESPONSE) AND NOT (HeDiab (Last nt) = 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.

INTERVIEWER: 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 HE56 - HE57]**

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 HE58]**

**HEFLC**

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

- 1 Yes
- 2 No

*IF person's age >= 60*  
*[IAgeOf >= 60]*

**HEFRAC**

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

- 1 Yes
- 2 No

**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]*

**HEJIAA\***

HeJiaa

Which joints did ^youname[pnum] have replaced/resurfaced ^ever/ since the last interview?

INTERVIEWER:@ | PROBE - 'What others?'

INTERVIEWER: CODE ALL THAT APPLY.

- 1 Right hip
- 2 Left hip
- 3 Right knee
- 4 Left knee
- 5 Other joint

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

Description	Variable	Archive
Right hip	HeJiaa1	HeJiaa1
Left hip	HeJiaa2	HeJiaa2
Right knee	HeJiaa3	HeJiaa3
Left knee	HeJiaa4	HeJiaa4
Other joint	HeJiaa5	HeJiaa5

*IF HeJiaa= right hip*  
*[HEJiaa1=1]*

**HeJibRH\***

"Was the **right** hip replacement/resurfacing because of arthritis, a fracture, to replace a previous artificial hip, or for some other reason?

INTERVIEWER: ENTER THE MAIN REASON.

- 1 Arthritis,
- 2 Fracture,
- 3 Replacement of a previous artificial hip

95 Other reason  
END OF FILTER

*IF HeJiaa= Left Hip*  
[HEJiaa2=1]

**HeJibLH\***

"Was the **left** hip replacement because of arthritis, a fracture, to replace a previous artificial hip, or for some other reason?

INTERVIEWER: ENTER THE MAIN REASON.

- 1 Arthritis,
- 2 Fracture,
- 3 Replacement of a previous artificial hip
- 95 Other reason

END OF FILTER

*IF HeJiaa= Right Knee*  
[HEJiaa3=1]

**HeJibRK\***

Was the **right** knee replacement because of arthritis, a fracture, to replace a previous artificial knee, or for some other reason?

INTERVIEWER: ENTER THE MAIN REASON.

- 1 Arthritis,
- 2 Fracture,
- 3 Replacement of a previous artificial knee
- 95 Other reason

END OF FILTER

*IF HeJiaa= Left Knee*  
[HEJiaa4=1]

**HeJibLK\***

Was the **left** knee replacement because of arthritis, a fracture, to replace a previous artificial knee, or for some other reason?

INTERVIEWER: ENTER THE MAIN REASON.

- 1 Arthritis,
- 2 Fracture,
- 3 Replacement of a previous artificial knee
- 95 Other reason

END OF FILTER

*IF joints replaced = right hip, left hip, right knee, left knee, other joint*  
[HeJiaa =RESPONSE]

**HEJION\***

Has [<sup>^</sup>your/<sup>^</sup>name's]] 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 C7

Now we want you to remember what [^name] was like [^two years ago and to compare it with what [^he / she] is like now. [^BLANK / Two years ago was in 2010/11]. 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 C7

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 C7

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 C7

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 C7

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 C7

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 C7

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 C7

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 C7

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 C7

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 C7

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 C7

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 C7

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 C7

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 C7

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 C7

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 C7

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

### HEPAWH

SHOW CARD C8

In which parts of the body do you feel pain?

INTERVIEWER: CODE ALL THAT APPLY.

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

Description	Variable	Archive
Back	HePaWh1	Hepawba
Hips	HePaWh2	Hepawhi
Knees	HePaWh3	Hepawkn
Feet	HePaWh4	Hepawfe
Mouth/teeth	HePaWh5	Hepawmo
Other	HePaWh6	Hepawot
All over	HePaWh7	Hepawal

*IF pain in back, hips, knees, feet or all over*

[HEPAWH=1,2,3,4, 7]

### 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 = 2]

**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  
END OF FILTER

*IF (pain in back OR pain all over) AND walks on a flat surface*  
| [**HEPAWH** = 1,7] AND [HePab1 =2]

**HEBCK**

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

INTERVIEWER: 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

*IF (pain in hips OR pain all over) AND walks on a flat surface*

| [**HEPAWH** = 2 or 7 AND HePab1 =2]

**HEHIP**

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

INTERVIEWER: 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

*IF (pain in knees OR pain all over) AND walks on a flat surface*

| [**HEPAWH** = 3 or 7 AND HePab1 =2]

**HEKNE**

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

INTERVIEWER: 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

*IF pain in feet OR pain all over AND walks on a flat surface*

| [**HEPAWH** = 4 or 7] AND [HePab1 =2]

**HEFET**

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

INTERVIEWER: 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

*IF (knee pain rating is between 1 and 10) AND (type of arthritis = osteoarthritis)*  
| [(**HEKne** = [1..10]) AND (HeArt=1)]

*IF (IAskPx[pnum] <> Yes) THEN*

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

**HEBAL**

SHOW CARD C9

How often do you have problems with keeping your balance when you are walking on a level surface?:

- 1 Always
- 2 Very often
- 3 Often
- 4 Sometimes
- 5 Never
- 6 SPONTANEOUS: Never walks
- 7 SPONTANEOUS: Can't walk

*IF reported problems with keeping balance when walking on level surface is <> never walks, can't walk  
[HeBal <>no walk, cant walk ]*

**HEDIZ**

SHOW CARD C9

How often do you have problems with dizziness when you are walking on a level surface?

- 1 Always
- 2 Very often
- 3 Often
- 4 Sometimes
- 5 Never
- 6 SPONTANEOUS: Never walks
- 7 SPONTANEOUS: Can't walk

END OF FILTER

END OF FILTER

**HEADLA\***

SHOW CARD C10

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?'

INTERVIEWER: 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

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

Description	Variable	Archive
Mobility: difficulty walking 100 yards	HeADLa1	Hemobwa
Mobility: difficulty sitting 2 hours	HeADLa2	Hemobsi
Mobility: difficulty getting up from chair after sitting long periods	HeADLa3	Hemobch
Mobility: difficulty climbing several flights stairs without resting	HeADLa4	Hemobcs
Mobility: difficulty climbing one flight stairs without resting	HeADLa5	Hemobcl
Mobility: difficulty stooping, kneeling or crouching	HeADLa6	Hemobst

Mobility: difficulty reaching or extending arms above shoulder level	HeADLa7	Hemobre
Mobility: difficulty pulling or pushing large objects	HeADLa8	Hemobpu
Mobility: difficulty lifting or carrying weights over 10 pounds	HeADLa9	Hemobli
Mobility: difficulty picking up 5p coin from table	HeADLa10	Hemobpi
Mobility: whether said had none of listed difficulties	HeADLa96	Hemob96

**[CHECK HE59]**

**HEADLB\***

SHOW CARD C11

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?'

INTERVIEWER: 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

**[code maximum 13 out of 14 possible responses]**

Description	Variable	Archive
ADL: difficulty dressing, including putting on shoes and socks	HeADLb1	Headldr
ADL: difficulty walking across a room	HeADLb2	Headlwa
ADL: difficulty bathing or showering	HeADLb3	Headlba
ADL: difficulty eating, such as cutting up food	HeADLb4	Headlea
ADL: difficulty getting in and out of bed	HeADLb5	Headlbe
ADL: difficulty using the toilet, including getting up or down	HeADLb6	Headlwc
IADL: difficulty using map to figure out how to get around strange place	HeADLb7	Headlma
IADL: difficulty recognising when in physical danger	HeADLb8	Headlda
IADL: difficulty preparing a hot meal	HeADLb9	Headlpr
IADL: difficulty shopping for groceries	HeADLb10	Headlsh
IADL: difficulty making telephone calls	HeADLb11	Headlph
IADL: difficulty with communication (speech, hearing or eyesight)	HeADLb12	Headlsp
IADL: difficulty taking medications	HeADLb13	Headlme
IADL: difficulty doing work around house and garden	HeADLb14	Headlho
IADL: difficulty managing money, eg paying bills,keeping track expenses	HeADLb15	Headlmo
ADL&IADL: whether said had none of listed difficulties	HeADLb96	Headl96

**[CHECK HE60]**

## HE Module Checks

### HE1-6 SPARE

HE7 HEOPT

HE8 HEOPT

HE9 HEOPT

*IF Types of eye condition = RESPONSE [HeOpt = RESPONSE]*

```
LOOP FOR idx:= 1 TO 4
  IF (HeOpn[idx] = HasNow)
    CHECK (idx IN HeOpt) INVOLVING(HeOpt)
    INTERVIEWER: The respondent has confirmed that they have ^ConDisp[idx] at a previous
    question (HeOpn). Please press <Enter> and add code ^idx at this question.
    END OF CHECK
  END OF FILTER
  IF types of eye conditions = idx [HeOpt = idx]
    CHECK (ConDisp[idx] <> "") INVOLVING(HeOpt)
    INTERVIEWER: You cannot use this code.
    END OF CHECK
  END OF FILTER
END OF LOOP
END OF FILTER
```

*IF Types of eye condition = None [HEOpt= 96]*

```
CHECK: (CARDINAL(HEopt) = 1)
INTERVIEWER: 'None' is an exclusive code at this question. Please change.
END OF CHECK
END OF FILTER
```

HE10 HESLPE

HE11 HESLPE

*IF (HESLPE = RESPONSE)*

```
CHECK: (HESLPE >= 4)
INTERVIEWER: Are you sure the respondent only gets ^heslpe hours sleep a night?
END OF CHECK
```

CHECK: (HESLPE <= 10)

INTERVIEWER: Are you sure the respondent gets ^heslpe hours sleep a night?

END OF CHECK

END OF FILTER

#### HE12 HEDIAA

#### HE13 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 OF CHECK

END OF FILTER

LOOP FOR Idx:= 1 TO 8

*IF Reason CVD condition disputed = Did not have previously, but has now [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 OF CHECK

END OF FILTER

END OF FILTER

#### HE14 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 OF CHECK

END OF FILTER

#### HE15 HEAGA

#### HE16 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 OF 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 OF CHECK

END OF FILTER

**HE17 HEAGARY**

**HE18 HEAGARY**

*IF (HeAgaRY = RESPONSE)*

*CHECK: (HeAgaRY <= Sllntdat.YEAR)*

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

END OF CHECK

END OF FILTER

*IF (Date of Last Interview = RESPONSE) AND (Month told had angina = RESPONSE) AND (Year told had angina = RESPONSE) AND (Refreshment sample indicator <> Yes)  
[(PrevDate[PNum] = RESPONSE) AND (HeagaR = RESPONSE) AND (HeagaRY = RESPONSE)  
AND NOT(HFFW.Refresh = 1)]*

*CHECK: (PrevDate[PNum] <= TODATE(HeagaRY,ORD(HeagaR),28))*

INTERVIEWER: This date is before the date of ^IName[Pnum]'s last interview. Please check! If correct, add Note explaining why the condition was not reported last time.

END OF CHECK

END OF FILTER

**HE19 HEAGB**

**HE20 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 OF 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 OF CHECK

END OF FILTER

**HE21 HEAGBRY**

**HE22 HEAGBRY**

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

*CHECK: SIIntDat >= (HeAgbRY,ORD(HeAgbR),1))*

INTERVIEWER: This date is in the future (^HeAgbR ^HeAgbRY)! Please change!

END OF CHECK

END OF FILTER

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

*(Year told had heart attack = RESPONSE) AND refreshment sample indicator <> Yes [PrevDate = RESPONSE AND HeAgbR = RESPONSE AND HeAgbRY = RESPONSE AND NOT(HFFW.Refresh = 1)]*

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

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

END OF CHECK

END OF FILTER

## **HE23 HEAGC**

## **HE24 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 OF 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 OF CHECK

END OF FILTER

## **HE25 HEAGCRY**

## **HE26 HEAGCRY**

*IF (Interview Date = RESPONSE) AND (month told had congestive heart failure = RESPONSE) AND (year told had congestive heart failure = RESPONSE) [SIntDat = 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 OF 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) AND NOT refreshment sample= yes [PrevDate = RESPONSE AND HeAgcR = RESPONSE AND HeAgcRY = RESPONSE AND NOT(HFFW.Refresh = 1)]*

*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 OF CHECK

END OF FILTER

## **HE27 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 OF CHECK

END OF FILTER

## **HE28 HEAGDRY**

## **HE29 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)  
[SIntDat >= TODATE HeAgdRY, HeAgdR.ORD, 1]*

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

END OF CHECK

END OF FILTER

*IF ((Previous Interview Date = RESPONSE) AND (Month told had diabetes = RESPONSE)) AND (Year told had diabetes = RESPONSE) AND refreshment sample indicator <> yes  
[PrevDate = RESPONSE AND HeAgdR = RESPONSE AND HeAgdRY = RESPONSE AND NOT(HFFW.Refresh = 1)]*

*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 OF CHECK

END OF FILTER

## **HE30 SPARE**

**HE31 HEAGE**

**HE32 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 OF CHECK

END OF FILTER

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

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

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

END OF CHECK

END OF FILTER

**HE33 HEAGERY**

**HE34 HEAGERY**

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

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

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

END OF CHECK

END OF FILTER

*IF ((Previous Interview Date = RESPONSE) AND (Month told had stroke = RESPONSE)) AND  
(Year told had stroke = RESPONSE) and refreshment sample indicator <> yes  
[PrevDate = RESPONSE AND HeAgeR = RESPONSE AND HeAgeRY = RESPONSE AND  
NOT(HFFW.Refresh = 1)]*

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 OF CHECK

END OF FILTER

**HE34 HEDIAB**

**HE35 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 OF CHECK

END OF FILTER

LOOP FOR Idx:= 1 TO 10

*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 OF CHECK

END OF FILTER

END OF LOOP

### **HE36 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 OF CHECK

END OF FILTER

### **HE37 HEAGFRY**

### **HE38 HEAGFRY**

*IF (Interview Date = RESPONSE) AND (Month told had arthritis = RESPONSE) AND (Year  
told had arthritis = RESPONSE)  
[SIntDat = RESPONSE AND HeAgfR =RESPONSE AND HeAgfRY = RESPONSE]*

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

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

END OF CHECK

END OF FILTER

*IF ((Previous Interview Date = RESPONSE) AND (Month told had arthritis = RESPONSE)) AND  
(Year told had arthritis = RESPONSE) and refreshment sample indicator <> yes*

*[PrevDate = RESPONSE AND HeAgfR RESPONSE AND HeAgfRY = RESPONSE AND NOT(HFFW.Refresh = 1)]*

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 OF CHECK

END OF FILTER

**HE39 HEAGG**

**HE40 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 OF 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 OF CHECK

END OF FILTER

**HE41 HEAGGRY**

**HE42 HEAGGRY**

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

*[SIntDat = RESPONSE AND HeAggR = RESPONSE AND HeAggRY = RESPONSE]*

CHECK: Interview Date >= TODATE (year told had cancer, month told had cancer, 1)  
*[SIntDat >= TODATE HeAggRY, HeAggR.ORD, 1 ]*

INTERVIEWER: This date is in the future (^HeAggR ^HeAggRY)! Please change!

END OF CHECK

END OF FILTER

*IF (Previous Interview Date = RESPONSE) AND (Month told had cancer = RESPONSE) AND (Year told had cancer = RESPONSE) and refreshment sample indicator <> yes  
[PrevDate = RESPONSE AND HeAggR = RESPONSE AND HeAggRY = RESPONSE AND NOT(HFFW.Refresh = 1)]*

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 OF CHECK

END OF FILTER

**HE43 HEPK**

**HE44 HEPK**

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 OF 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 OF CHECK

END OF FILTER

**HE45 HEPKRY**

**HE46 HEPKRY**

IF Interview Date = RESPONSE [SIntDat = RESPONSE]

CHECK: Interview Date >= TODATE  
(year told had Parkinson's disease, month told had Parkinson's disease.ORD, 1)  
| [SIntDat >= TODATE HePrkRY, HePrkR.ORD, 1 ]

INTERVIEWER: This date is in the future (^HePrkR ^HePrkRY)! Please  
change!

END OF 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) AND refreshment sample indicator <> yes  
| [PrevDate = RESPONSE AND HePrkR = RESPONSE AND HePrkRY = RESPONSE AND  
NOT(HFFW.Refresh = 1)]

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 OF CHECK

END OF FILTER

#### HE47 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 OF CHECK

END OF FILTER

#### HE48 HEAGHRY

#### HE49 HEAGHRY

IF (Interview Date = RESPONSE) AND (Month told had psychiatric problems = RESPONSE) AND  
(Year told had psychiatric problems = RESPONSE)  
[SIntDat = RESPONSE AND HeAghR = RESPONSE AND HeAghRY = RESPONSE]

CHECK: Interview Date >= TODATE  
(year told had psychiatric problems, month told had psychiatric problems.ORD, 1)  
[SIntDat >= TODATE HeAghRY, HeAghR.ORD, 1 ]

INTERVIEWER: This date is in the future (^HEAghR ^HEAghRY)! Please change!

END OF CHECK

END OF FILTER

IF (Previous Interview Date = RESPONSE) AND (Month told had psychiatric problems = RESPONSE)  
AND (Year told had psychiatric problems = RESPONSE) AND refreshment sample indicator <> yes  
[PrevDate = RESPONSE AND HeAghR = RESPONSE AND HeAghRY = RESPONSE AND  
NOT(HFFW.Refresh = 1)]

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 OF CHECK

END OF FILTER

#### HE50 HEAGI

#### HE51 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 OF 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 OF CHECK  
|  
END OF FILTER

**HE52 HEAGIRY**  
**HE53 HEAGIRY**

*IF (Interview Date = RESPONSE) AND (Month told had Alzheimer's = RESPONSE) AND (Year told had Alzheimer's = RESPONSE) [SIntDat = 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) [SIntDat >= TODATE HeAgiRY, HeAgiR.ORD, 1 ]*  
|  
| INTERVIEWER: This date is in the future (^HeAgiR ^HeAgiRY)! Please change!  
|  
| END OF CHECK  
|  
END OF FILTER

*IF (Previous Interview Date = RESPONSE) AND (Month told had Alzheimer's = RESPONSE) AND (Year told had Alzheimer's = RESPONSE) AND refreshment sample indicator <> yes [PrevDate = RESPONSE AND HeAgiR = RESPONSE AND HeAgiRY = RESPONSE AND NOT(HFFW.Refresh = 1)]*  
|  
*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 OF CHECK  
|  
END OF FILTER

**HE53 HEAGJ**  
**HE54 HEAGJ**

*IF (Respondent Age > 0) AND (age first told had dementia = RESPONSE) [IF 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 OF 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 OF CHECK*

*END OF FILTER*

**HE56 HEAGJRY**

**HE57 HEAGJRY**

*IF (Interview Date = RESPONSE) AND (month told had dementia = RESPONSE) AND  
(Year told had dementia = RESPONSE)  
[SIntDat = RESPONSE AND HeAgjR = RESPONSE AND HeAgjRY = RESPONSE]*

*CHECK: Interview Date >= TODATE (year told had dementia, month told had dementia.ORD, 1)  
[SIntDat >= TODATE year told had dementia, month told had dementia.ORD, 1 ]*

*INTERVIEWER: This date is in the future (^HeAgjR ^HeAgjRY)! Please change!*

*END OF CHECK*

*END OF FILTER*

*IF (Previous Interview Date = RESPONSE) AND (Month told had memory impairment = RESPONSE)  
AND (Year told had memory impairment = RESPONSE) AND refreshment sample indicator = Yes  
[PrevDate = RESPONSE AND HeAgjR = RESPONSE AND HeAgjRY = RESPONSE AND  
NOT(HFFW.Refresh = Yes)]*

*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 OF CHECK*

*END OF FILTER*

**HE58 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)*

[HeFib > 0 INVOLVING HeFla, HeFib]

EDIT: Number of Falls  
number of times fallen down=0  
Please change whether fallen down to 'no'.

END OF CHECK

END OF FILTER

#### **HE59 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 OF CHECK

END OF FILTER

#### **HE60 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 OF CHECK

END OF FILTER

#### **SC1 CAHIN**

*IF who provides care = none [CaHin=none]*

CHECK: (CaHin.CARDINAL = 1)

Did you mean to choose 'None of the above' as well as one of the other codes? Please change.

END OF CHECK

END OF FILTER

#### **SC2 CAHFO**

*IF who provides care = none [CaHFo=none]*

CHECK: (CaHFo.CARDINAL = 1)

Did you mean to choose 'None of the above' as well as one of the other codes? Please change.

END OF CHECK

END OF FILTER

**SC3 CAPNO**  
**SC4 CAPNO**  
**SC5 CAPNO**

*IF person number = RESPONSE [pnober = RESPONSE]*

*CHECK: (DMpres[pnober.ORD] = YES) INVOLVING(pnober)*

This code is not valid for this question.

END OF CHECK

*CHECK: pnober <> prespno INVOLVING(pnober)*

This code is the respondent - please change!

END OF CHECK

*CHECK: Cahadp[pnober.ord] <=1 INVOLVING(pnober)*

Already had this person - please change!.

END OF CHECK

END OF FILTER

**SC6 CAHHC**  
**SC7 CAHHC**  
**SC8 CAHHC**

*CHECK: (qhelpc[1].CaHHc=response) and (qhelpc[2].CaHHc=response) then (qhelpc[1].CaHHc <> qhelpc[2].CaHHc)*

[^I/do/does] [^you/[^name]] have different people helping with different things?

IF yes - SELECT MAIN TASK

IF no - please change

END OF CHECK

*CHECK: (qhelpc[1].CaHHc=response) and (qhelpc[3].CaHHc=response) then (qhelpc[1].CaHHc <> qhelpc[3].CaHHc)*

[^I/do/does] [^you/[^name]] have different people helping with different things?

IF yes - SELECT MAIN TASK

IF no - please change

END OF CHECK

*CHECK: (qhelpc[2].CaHHc=response) and (qhelpc[3].CaHHc=response) then (qhelpc[2].CaHHc <> qhelpc[3].CaHHc)*

[^I/do/does] [^you/[^name]] have different people helping with different things?

IF yes - SELECT MAIN TASK

IF no - please change

END OF CHECK

## SC9 CAHRF

*IF Number of hours care provided for = RESPONSE [CaHrF[ploop] = RESPONSE]*

*CHECK: CaHrF[ploop] < 30*

That is a high number of hours. Check this is correct and amend if necessary

END OF CHECK

END OF FILTER

## SC10 CADP

*IF Type of payment =Neither [CaDP=3]*

*CHECK: cardinal(CaDP)=1*

'Neither' is an exclusive code at this question. Please change!

END OF CHECK

END OF FILTER

## SC11 CAPAD

*IF Other Payment = NO [CaPAd = 2]*

*CHECK: (CARDINAL(CaPAd) = 1)*

'Nobody' is an exclusive code. Please change!

END OF CHECK

END OF FILTER

## HE61 CACLUB

*IF other help = None [CaClub=96]*

*CHECK: (CaClub.CARDINAL = 1)*

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

END OF CHECK

END OF FILTER

## HE62 HEAID

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

*CHECK: (CARDINAL(HEAid) = 1)*

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

END OF CHECK

END OF FILTER

**HE63 HEAP2**

*CHECK: (HeAP2 <> No) INVOLVING(HeAidP)*

INTERVIEWER: Please go back and add who else paid for mobility aid at HeAidP.

END OF CHECK

**HE64 HESKB**

**HE65 HESKB**

**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 OF CHECK

*CHECK: number of cigarettes smoked on <= 60 [HeSkb <= 60 ]*

INTERVIEWER: This seems high (^heskb). Please check.

END OF 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 OF CHECK

*CHECK: number of cigarettes smoked a day at weekends <= 60 [HeSkc <= 60 ]*

INTERVIEWER: This seems high (^heskc). Please check.

END OF 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 OF 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 OF CHECK

END OF FILTER

*IF tobacco smoked on weekday - whether grams or ounces reported = grams [HeTba = 1]*

CHECK: amount of tobacco smoked on weekday <= 120 [HETbb <= 120]

INTERVIEWER: This seems high (^hetbb ^hetba). Please check.

END OF 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 OF 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 OF CHECK

END OF FILTER

*IF amount of tobacco smoked a day at weekends = Grams [HeTbc = 1]*

CHECK: amount of tobacco smoked a day at weekends <= 120 [HETbd <= 120 ]

INTERVIEWER: This seems high (^hetbd ^hetbc). Please check.

END OF CHECK

END OF FILTER

END OF FILTER

**HE74 HEMEN**

**HE75 HEMEN**

*CHECK: IF (HEMEN = RESPONSE) THEN (HEMEN <= 20) OR (HEMEN = 95)*

Are you sure the respondent started their periods after the age of 20? If yes please explain in a note.

END OF CHECK

*CHECK: (HEMEN >= 8) OR (HEMEN = 95)*

Are you sure the respondent started their periods before the age of 8? If yes please explain in a note.

END OF CHECK

**HE76 HEPEE**

*IF (HEPEE = yes)*

*CHECK: (HEHYE <> yes AND HEOVE <> Yes) INVOLVING (HEPEE)*

Interviewer: Are you sure the respondent has had a period in the last 12 months, as they have said that they have had their uterus, womb or ovaries removed? If yes please explain in a note.

END OF CHECK

END OF FILTER

**HE77 HEPEY**

*IF (SIIntDat = RESPONSE)*

*CHECK:(YEAR(SIIntDat) >= HEPEY) INVOLVING(HePey)*

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

END OF CHECK

END OF FILTER

**HE78 HEPEA**

**HE79 HEPEA**

*IF (HEPEA = RESPONSE) THEN*

*CHECK: (HEPEA >= 20)*

Interviewer: Are you sure respondent period stopped at this age? If so please explain in a note.

END OF CHECK

*CHECK: (HEPEA >= HEMEN) INVOLVING(HEPEA)*

Interviewer: Are you sure respondent period stopped at this age? If so please explain in a note.

END OF CHECK

END OF FILTER

**HE80 HEHfy**

**HE81 HEHfy**

*CHECK: (HEH FY <= SIntDat.YEAR)*

| You have entered a future year. Please check and amend.

END OF CHECK

*CHECK: (HEH FY = SIntDat.YEAR) THEN (HEH FM <= SIntDat.MONTH)*

| You have entered a future date. Please check and amend.

END OF CHECK

**HE82 HEPEY**

*IF (SIntDat = RESPONSE)*

| *CHECK: (YEAR(SIntDat) >= HEHST) INVOLVING(HePey)*

| INTERVIEWER: This date is in the future (^HEHST)! Please change!

| END OF CHECK

END OF FILTER