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Introduction

In Understanding Society, respondents are asked questions about various health conditions that they have been diagnosed with (or reported by a health professional). The choice of these questions have been informed by the expertise of health research experts and established studies in the field, such as the National Health and Nutrition Examination Survey and the Adult Psychiatric Morbidity Study. Over the years, the questions undergone some changes to improve these measures. In this document we describe the questions, who were asked and how and why these have been changed across waves.

Understanding Society, in its current form started in 2009. Its pre-decessor, the British Household Panel Survey (BHPS), was fielded from 1991-2009. The surviving sample was invited to join the new survey and those who agreed became part of the study from onwards the 2nd wave in 2010. To allow researchers to use both studies together their data has been harmonized. To distinguish the two surveys, which are collectively referred to as Understanding Society, the current study is referred to as UKHLS and its pre-decessor as BHPS.

- When variables were considered to be harmonizable, the same name is given (with the BHPS name changed to the UKHLS variable name if these were different).
- If two variables are not harmonizable, even if they are similar, then these are left as they are. But if these two variables had the same name, then the BHPS variable is given a suffix _bh

For further details about these studies and harmonization see these user manuals and guides.

- The BHPS User Manual: https://www.understandingsociety.ac.uk/wp-content/uploads/documentation/user-guides/5151_bhps_user_manual_volume_a.pdf
- The UKHLS Main Survey User Guide: <https://www.understandingsociety.ac.uk/documentation/mainstage/user-guides/main-survey-user-guide/>
- The BHPS – Harmonized User Guide: https://www.understandingsociety.ac.uk/wp-content/uploads/documentation/user-guides/6614_main_survey_bhps_harmonised_user_guide.pdf

BHPS Waves 1-18

The health condition questions in BHPS were worded differently and so these are not considered to be harmonizable with the UKHLS questions and the names are left as they are.

BHPS Wave 1

"Does (NAME) have any of the health problems or disabilities listed on this card? You can just tell me which letters apply."

CODE FIRST FOUR MENTIONED, OR CODE 'NONE'

EXCLUDE TEMPORARY CONDITIONS

	1 st	2 nd	3 rd	4 th
A Problems with arms/legs etc	01----	01----	01----	01----
B Difficulty in seeing	02----	02----	02----	02----
C Difficulty in hearing	03----	03----	03----	03----
D Skin conditions/allergies	04----	04----	04----	04----
E Chest/breathing problems	05----	05----	05----	05----
F Heart/blood	06----	06----	06----	06----
G Stomach/liver/kidneys	07----	07----	07----	07----
H Diabetes	08----	08----	08----	08----
I Nerves/anxiety/depression	09----	09----	09----	09----
J Alcohol/drugs	10----	10----	10----	10----
K Epilepsy	11----	11----	11----	11----
L Migraine/chronic headaches	12----	12----	12----	12----
M Other (GIVE DETAILS)	13----	13----	13----	13----

Upto 4 conditions were recorded in the variables **bw_hlprb1-4** with the values representing the health conditions:

- 1 Probs wth arms/leg
- 2 Difficulty seeing
- 3 Difficulty hearing
- 4 Skin conds/allergies
- 5 Chest/breathing probs
- 6 Heart and blood
- 7 Stomach/liver/kidneys
- 8 Diabetes
- 9 Nerves/anxiety/depression
- 10 Alcohol/drugs
- 11 Epilepsy
- 12 Migraine/chronic headachache
- 13 Other

If no condition was chosen then **bw_hlprb=-8**, and **bw_hlprb1-bw_hlprb4=-8**. These variables were then recoded into a series of 0-1 variables where the variable had a value of 1 if that was mentioned:

bw_hlprba "Health problems: Arms, legs, hands, etc"

bw_hlprbb "Health problems: Sight"

bw_hlprbc "Health problems: Hearing"

bw_hlprbd "Health problems: Skin conditions/allergy"

bw_hlprbe "Health problems: Chest/breathing"

bw_hlprbf "Health problems: Heart/blood pressure"

bw_hlprbg "Health problems: Stomach or digestion"

bw_hlprbh "Health problems: Diabetes"

bw_hlprbi "Health problems: Anxiety, depression, etc"

bw_hlprbj "Health problems: Alcohol or drugs"

bw_hlprbk "Health problems: Epilepsy"

bw_hlprbl "Health problems: Migraine"

bw_hlprbm "Health problems: Other"

BHPS Waves 2-10

From Wave 2 until Wave 10, the 4 condition constraint was removed and respondents could choose all the conditions if applicable and more details were added to the conditions.

Do you have any of the health problems or disabilities listed on this card? You can just tell me which letters apply.

EXCLUDE TEMPORARY CONDITIONS

CODE ALL THAT APPLY OR CODE 'NONE'

A Problems or disability connected with: arms, legs, hands, feet, back, or neck (including arthritis and rheumatism)	01
B Difficulty in seeing (other than needing glasses to read normal size print)	02
C Difficulty in hearing	03
D Skin conditions/allergies	04
E Chest/breathing problems, asthma, bronchitis	05
F Heart/blood pressure or blood circulation problems	06
G Stomach/liver/kidneys or digestive problems	07
H Diabetes	08
I Anxiety, depression or bad nerves	09
J Alcohol or drug related problems	10
K Epilepsy	11
L Migraine or frequent headaches	12
M Other health problems (PLEASE GIVE DETAILS)	

If no condition was chosen then **bb_hlprb=-8**, and a series of variables were created where the variable had a value of 1 if that condition was mentioned.

bw_hlprba "Health problems: Arms, legs, hands, etc"
bw_hlprbb "Health problems: Sight"
bw_hlprbc "Health problems: Hearing"
bw_hlprbd "Health problems: Skin conditions/allergy"
bw_hlprbe "Health problems: Chest/breathing"
bw_hlprbf "Health problems: Heart/blood pressure"
bw_hlprbg "Health problems: Stomach or digestion"
bw_hlprbh "Health problems: Diabetes"
bw_hlprbi "Health problems: Anxiety, depression, etc"
bw_hlprbj "Health problems: Alcohol or drugs"
bw_hlprbk "Health problems: Epilepsy"
bw_hlprbl "Health problems: Migraine"
bw_hlprbm "Health problems: Other"

BHPS Wave 11-18

From Wave 11, Cancer and Stroke were also added and responses were recorded in **bw_hlprba - bw_hlprbo**.

M3 Do you have any of the health problems or disabilities listed on this card? You can just tell me which numbers apply.

EXCLUDE TEMPORARY CONDITIONS

CODE ALL THAT APPLY OR CODE 'NONE'

None	0	GO TO M4
Problems or disability connected with: arms, legs, hands, feet back, or neck (including arthritis and rheumatism)	01	PHLPRBA
Difficulty in seeing (other than needing glasses to read normal size print).....	02	PHLPRBB
Difficulty in hearing.....	03	PHLPRBC
Skin conditions/allergies	04	PHLPRBD
Chest/breathing problems, asthma, bronchitis	05	PHLPRBE
Heart/high blood pressure or blood circulation problems	06	PHLPRBF
Stomach/liver/kidneys or digestive problems.....	07	PHLPRBG
Diabetes	08	PHLPRBH
Anxiety, depression or bad nerves, psychiatric problems	09	PHLPRBI
Alcohol or drug related problems	10	PHLPRBJ
Epilepsy.....	11	PHLPRBK
Migraine or frequent headaches	12	PHLPRBL
Cancer.....	13	PHLPRBN
Stroke	14	PHLPRBO
Other health problems (PLEASE GIVE DETAILS).....	15	PHLPRBM

In Waves 11 and 16 some additional questions were included on treatment for those conditions the respondent said they had, which were recorded in **bw_hlprxa-o** (1=yes, 2=no).

If M3 = 1 ASK

RM1a) 'Has a doctor ever told you that you suffer from osteoarthritis, rheumatoid arthritis, gout or osteoporosis?' PHLPRXA

Yes..... 1

No..... 2

If M3 = 2 ASK

RM1b) 'Do you attend a hospital out-patients or have annual check-ups?' PHLPRXB

Yes..... 1

No..... 2

If M3 = 3 ASK

RM1c) 'Do you wear or have you ever tried a hearing aid?' PHLPRXC

Yes..... 1

No..... 2

If M3 = 4 ASK

RM1d) 'Do you use regularly any specific medication?' PHLPRXD

Yes..... 1

No..... 2

If M3 = 5 ASK

RM1e) 'Do you suffer asthma attacks or become easily short of breath?' PHLPRXE

Yes..... 1

No..... 2

If M3 = 6 ASK

RM1f) 'Do you have angina or heart failure or have had a heart attack?' PHLPRXF

Yes..... 1

No..... 2

If M3 = 7 ASK

RM1g) 'Was the problem investigated in hospital and, since then, requires regular treatment?' PHLPRXG

Yes..... 1

No..... 2

If M3 = 8 ASK

RM1h) 'Do you inject insulin?' PHLPRXH

Yes..... 1

No..... 2

If M3 = 9 ASK

RM1i) 'Are you receiving treatment for your psychiatric problems?' PHLPRXI

Yes..... 1

No..... 2

If M3 = 10 ASK

RM1j) 'Are you under regular supervision?' PHLPRXJ

Yes..... 1

No 2

If M3 = 11 ASK

RM1k) 'Do you take regular medication for your epilepsy?' PHLPRXK

Yes..... 1

No 2

If M3 = 12 ASK

RM1l) 'Do you take medication for your migraines or frequent headaches?' PHLPRXL

Yes..... 1

No 2

If M3 = 13 ASK

RM1m) 'Are you receiving treatment for your cancer?' PHLPRXM

Yes..... 1

No 2

If M3 = 14 ASK

RM1n) 'Is there any lasting paralysis from your stroke?' PHLPRXN

Yes..... 1

No 2

If M3 = 15 ASK

RM1o) 'Are you seen regularly (at least once per year) in a hospital out-patients department?' PHLPRXO

Yes..... 1

No 2

UKHLS Waves

UKHLS Waves 1-9

New entrants

In Wave 1, everyone and in Waves 3-9, new entrants to the study were asked the following question, **HCOND**, and its follow-ups (see below). These were designed to be only asked the first time someone was interviewed.

ERROR: New entrants were not asked these questions in Wave 2.

HCOND: “Has a doctor or other health professional ever told you that you have any of the conditions listed on this card?”

Respondents were asked to choose all the conditions that were applicable from this list: “Asthma”, “Arthritis”, “Congestive heart failure”, “Coronary heart disease”, “Angina”, “Heart attack or myocardial infarction”, “Stroke”, “Emphysema”, “Hyperthyroidism or an overactive thyroid”, “Hypothyroidism or an under-active thyroid”, “Chronic bronchitis”, “Any kind of liver condition”, “Cancer or malignancy”, “Diabetes”, “Epilepsy”, “High blood pressure” and “Clinical depression”.

In Waves 6, an “Other” condition was added to the list and in Waves 7-9, the health conditions, “Multiple Schlerosis” and “H.I.V.” were added.

The responses were recorded in the variables, **HCOND1-20**, which had a value of 1 if that condition was mentioned and 0 otherwise. If none of the conditions listed were chosen then the variable, **HCOND96**, labelled “none of these” was set to 1, and 0 otherwise.

Note, the responses to HIV health condition (HCOND20) are only available under Special License. Although respondents were allowed to report the specific “other” health condition which was recorded verbatim, these are not released (HCONDO).

For each health condition mentioned, i.e., **HCOND*=1**, these follow-up questions were asked:

- **HCONDS:** “Do you still have [HCond]?”
The responses were recorded in the variables, **HCONDS***, which had a value of 1 if the response was Yes, and 2 if the response was No. This was not asked for health conditions “Heart attack or myocardial infarction”, “Stroke”, “Other”, “Multiple Schlerosis”, H.I.V, (HCOND6, HCOND7, HCOND18, HCOND19, HCOND20).
- **HCONDA:** “What age were you when you ewre first told you had a [HCond]?”
The responses were recorded in the variables, **HCONDA***. This was not asked for health condition, “Other” (HCOND18).

ERROR: In Wave 1, the follow-ups, whether still had the condtion, was mistakenly asked for the health conditions, heart attack and stroke, (HCONDS6, HCONDS7).

ERROR: In Wave 1, there was an error in the age for stroke and heart attack questions (HCONDA6, HCONDA7), and so in Wave 3, all continuing members were asked if they ever had a heart attack or stroke (HCONDE6, HCONDE7) and if yes, then the age at which they had that (HCONDEA6, HCONDEA7). A HCONDE96 was also recorded to confirm whether either or none of these conditions were reported.

Summary of health conditions ever diagnosed, asked of new entrants in Waves 1, 3-9

Health condition	Mentioned	Follow-up		Waves included in
		Age diagnosed	Still has the condition	
<i>Asthma</i>	HCOND1=1	HCONDA1	HCONDS1=1	<i>Waves 1, 3-9</i>
<i>Arthritis</i>	HCOND2=1	HCONDA2	HCONDS2=1	
<i>Congestive heart failure</i>	HCOND3=1	HCONDA3	HCONDS3=1	
<i>Coronary heart disease</i>	HCOND4=1	HCONDA4	HCONDS4=1	
<i>Angina</i>	HCOND5=1	HCONDA5	HCONDS5=1	
<i>Heart attack or myocardial infarction</i>	HCOND6=1	HCONDA6		
<i>Stroke</i>	HCOND7=1	HCONDA7		
<i>Emphysema</i>	HCOND8=1	HCONDA8	HCONDS8=1	
<i>Hyperthyroidism or an overactive thyroid</i>	HCOND9=1	HCONDA9	HCONDS9=1	
<i>Hypothyroidism or an under-active thyroid</i>	HCOND10=1	HCONDA10	HCONDS10=1	
<i>Chronic bronchitis</i>	HCOND11=1	HCONDA11	HCONDS11=1	
<i>Any kind of liver condition</i>	HCOND12=1	HCONDA12	HCONDS12=1	
<i>Cancer or malignancy</i>	HCOND13=1	HCONDA13	HCONDS13=1	
<i>Diabetes</i>	HCOND14=1	HCONDA14	HCONDS14=1	
<i>Epilepsy</i>	HCOND15=1	HCONDA15	HCONDS15=1	
<i>High blood pressure</i>	HCOND16=1	HCONDA16	HCONDS16=1	
<i>Clinical depression</i>	HCOND17=1	HCONDA17	HCONDS17=1	
<i>Other</i>	HCOND18=1	HCONDA18	HCONDS18=1	<i>Waves 6-9</i>
<i>Multiple Schlerosis</i>	HCOND19=1	HCONDA19		<i>Waves 7-9</i>
<i>H.I.V.</i>	HCOND20=1	HCONDA20		<i>Waves 7-9</i>
<i>None</i>	HCOND96=1		HCOND96=1	<i>Waves 1, 3-9</i>

Continuing sample members

After the initial wave, continuing sample members were asked about any new health conditions they had been diagnosed with since the previous interview, using this question, HCONDN:

HCONDN: “Since [previous interview date] has a doctor or other health professional newly diagnosed you as having any of the conditions listed on this card?”

Respondents were asked to choose all the conditions that were applicable from this list: “Asthma”, “Arthritis”, “Congestive heart failure”, “Coronary heart disease”, “Angina”, “Heart attack or myocardial infarction”, “Stroke”, “Emphysema”, “Hyperthyroidism or an overactive thyroid”, “Hypothyroidism or an under-active thyroid”, “Chronic bronchitis”, “Any kind of liver condition”, “Cancer or malignancy”, “Diabetes”, “Epilepsy”, “High blood pressure” and “Clinical depression”.

In Waves 6, an “Other” condition was added to the list and in Waves 7-9, the health conditions, “Multiple Schlerosis” and “H.I.V.” were added.

The responses were recorded in the variables, **HCONDN1-20**, which had a value of 1 if that condition was mentioned and 0 otherwise. If none of the conditions listed were chosen then the variable, **HCONDN96**, labelled “none of these” was set to 1, and 0 otherwise.

Note, the responses to HIV health condition (HCONDN20) are only available under Special License. Although respondents were allowed to report the specific “other” health condition which was recorded verbatim, these are not released (HCONDNO).

For each newly diagnosed health condition mentioned, i.e., **HCONDN*=1**, these follow-up questions were asked:

- **HOSPC:** “Thinking of your [HCondN], have you been in hospital or clinic as an in-patient overnight or longer since [ff_IntDate] because of this health condition?”
The responses were recorded in the variables, **HOSPC***, which had a value of 1 if the response was Yes, and 2 if the response was No.
- **HOSPCD:** “How many days have you spent in hospital or clinic as an in-patient since [ff_IntDate] because of your [HCondN]?”
The responses were recorded in the variables, **HOSPCD***. Respondents were asked these questions only if they had been hospitalised for a specific health condition, i.e., **HOSPC*=1**.
- **HCONDNS:** “Do you still have [HCondN]?”
The responses were recorded in the variables **HCONDNS***, which had a value of 1 if the response was Yes, and 2 if the response was No.

ERROR: In Waves 2-9, the follow-ups, whether still had the condtion, was mistakenly asked for the health conditions, heart attack, stroke, Multiple Schelerosis and H.I.V. (HCONDNS6, HCONDNS7, HCONDNS19, HCONDNS20).

Summary of newly health conditions since last interview, asked of continuing sample members in Waves 2-9

Health condition	Mentioned	Follow-up		Waves included in
		Still has the condition	Has been hospitalised, No. of days	
<i>Asthma</i>	HCONDN1=1	HCONDNS1=1	<i>HOSPC1=1, HOSPDC1</i>	Waves 2-9
<i>Arthritis</i>	HCONDN2=1	HCONDNS2=1	<i>HOSPC2=1, HOSPDC2</i>	
<i>Congestive heart failure</i>	HCONDN3=1	HCONDNS3=1	<i>HOSPC3=1, HOSPDC3</i>	
<i>Coronary heart disease</i>	HCONDN4=1	HCONDNS4=1	<i>HOSPC4=1, HOSPDC4</i>	
<i>Angina</i>	HCONDN5=1	HCONDNS5=1	<i>HOSPC5=1, HOSPDC5</i>	
<i>Heart attack or myocardial infarction</i>	HCONDN6=1	HCONDNS6=1	<i>HOSPC6=1, HOSPDC6</i>	
<i>Stroke</i>	HCONDN7=1	HCONDNS7=1	<i>HOSPC7=1, HOSPDC7</i>	
<i>Emphysema</i>	HCONDN8=1	HCONDNS8=1	<i>HOSPC8=1, HOSPDC8</i>	
<i>Hyperthyroidism or an overactive thyroid</i>	HCONDN9=1	HCONDNS9=1	<i>HOSPC9=1, HOSPDC9</i>	
<i>Hypothyroidism or an under-active thyroid</i>	HCONDN10=1	HCONDNS10=1	<i>HOSPC10=1, HOSPDC10</i>	
<i>Chronic bronchitis</i>	HCONDN11=1	HCONDNS11=1	<i>HOSPC11=1, HOSPDC11</i>	
<i>Any kind of liver condition</i>	HCONDN12=1	HCONDNS12=1	<i>HOSPC12=1, HOSPDC12</i>	
<i>Cancer or malignancy</i>	HCONDN13=1	HCONDNS13=1	<i>HOSPC13=1, HOSPDC13</i>	
<i>Diabetes</i>	HCONDN14=1	HCONDNS14=1	<i>HOSPC14=1, HOSPDC14</i>	
<i>Epilepsy</i>	HCONDN15=1	HCONDNS15=1	<i>HOSPC15=1, HOSPDC15</i>	
<i>High blood pressure</i>	HCONDN16=1	HCONDNS16=1	<i>HOSPC16=1, HOSPDC16</i>	
<i>Clinical depression</i>	HCONDN17=1	HCONDNS17=1	<i>HOSPC1=1, HOSPDC1</i>	
<i>Other</i>	HCONDN18=1			Waves 6-9
<i>Multiple Schlerosis</i>	HCONDN19=1	HCONDNS19=1	<i>HOSPC19=1, HOSPDC19</i>	Waves 7-9
<i>H.I.V.</i>	HCONDN20=1	HCONDNS20=1	<i>HOSPC19=1, HOSPDC20</i>	Waves 7-9
<i>None</i>	HCONDN96=1			Waves 2-9

UKHLS Wave 10-12

Wave 10 onwards **three** changes were introduced to capture diagnosed health conditions better.

- Health conditions “COPD (Chronic Obstructive Pulmonary Disease)” & “An emotional, nervous or psychiatric problem” were added to the list, while health conditions “Hyperthyroidism or an over-active thyroid” and “Clinical Depression” were dropped.
- If health conditions, “Arthritis”, “Cancer or malignancy”, Diabetes and “An emotional, nervous or psychiatric problem” were chosen, then respondents were asked to identify the specific type of that health condition in follow-up questions.
- It was noted that until Wave 9, continuing sample members were not asked if they still had the health conditions that they had reported in previous waves. So, the decision was taken to ask them about all the health conditions they had ever been diagnosed with, not just since last wave and then from onwards Wave 11, to ask them if they still had any of the previously reported health condition (in addition to the usual questions about any new health condition diagnosed with since last interview).

New entrants, Waves 10-12

In Waves 10-12, new entrants were asked the usual **HCOND** question with a modified health conditions list (as mentioned above).

HCOND: “Has a doctor or other health professional ever told you that you have any of these conditions?”

The responses were recorded in **HCOND*** which had a value of 1 if that condition was mentioned and 0 otherwise. If none of the conditions listed were chosen then the variable, **HCONDN96**, labelled “none of these” was set to 1, and 0 otherwise. Those who chose **HCOND2=1** were asked **ARTHTYP**, **HCOND13=1** are asked **CANCERTYP**, **HCOND14=1** are asked **DIABETESTYP**, **HCOND22=1** are asked **MHEALTHTYP**. Using the responses from **HCOND*** and these follow-up questions, variables, **HCONDCODE1, 3-8, 10-12, 15-16, 19-21, 23-43** were computed which had a value of 1 if that condition was mentioned and 0 otherwise. If none of the conditions listed were chosen then the variable, **HCONDCODE96**, labelled “none of these” was set to 1, and 0 otherwise. So, **HCONDCODE1, 3-8, 10-12, 15-16, 19-21, 23-43, 96** is the complete list of health conditions ever diagnosed. This information is summarised below. *Note, the responses to HIV health condition (HCOND20, HCONDCODE20) are only available under Special License. Although respondents were allowed to report the specific “other” health condition which was recorded verbatim, these are not released (HCONDO).*

As in previous waves, for each health condition chosen, **HCONDCODE*=1**, respondents were asked these follow-up questions:

- **HCONDS:** “Do you still have [HCondCode]?”
The responses were recorded in the variables, **HCONDS***, which had a value of 1 if the response was Yes, and 2 if the response was No. These were not asked for health conditions for which these follow-ups didn’t make sense and so **HCONDS6/7/19/20 & HCONDS25/32/36/43/97** do not exist.
- **HCONDA:** “What age were you when you were first told you had a [HCondcode] ?”
The responses were recorded in the variables, **HCONDA***. These were not asked for health conditions for which these follow-ups didn’t make sense and so **HCONDA25/32/36/43/97** do not exist.

Summary of health conditions ever diagnosed, asked of new entrants in Waves 10-12

HCOND1=1	Asthma		HCONDCODE1=1
HCOND2=1	Arthritis	ARTHTYP=1 "Osteoarthritis"	HCONDCODE23=1
		ARTHTYP=2, "Rheumatoid arthritis"	HCONDCODE24=1
		ARTHTYP=3, "Other type of arthritis"	HCONDCODE25=1
		ARTHTYP=4, "More than one of the above"	-
		ARTHTYP=5, "Don't Know"	-
HCOND3=1	Congestive heart failure		HCONDCODE3=1
HCOND4=1	Coronary heart disease		HCONDCODE4=1
HCOND5=1	Angina		HCONDCODE5=1
HCOND6=1	Heart attack or myocardial infarction,		HCONDCODE6=1
HCOND7=1	Stroke		HCONDCODE7=1
HCOND8=1	Emphysema		HCONDCODE8=1
HCOND10=1	Hypothyroidism or an under-active thyroid		HCONDCODE10=1
HCOND11=1	Chronic bronchitis		HCONDCODE11=1
HCOND12=1	Any kind of liver condition		HCONDCODE12=1
HCOND13=1	Cancer or malignancy	CANCERTYP=1, "Bowel/colorectal"	HCONDCODE26=1
		CANCERTYP=2, "Lung"	HCONDCODE27=1
		CANCERTYP=3, "Breast"	HCONDCODE28=1
		CANCERTYP=4, "Prostrate" [Not asked of women]	HCONDCODE29=1
		CANCERTYP=5, "Liver"	HCONDCODE30=1
		CANCERTYP=6, "Skin cancer or melanoma"	HCONDCODE31=1
		CANCERTYP=7, "Other"	HCONDCODE32=1
HCOND14=1	Diabetes	DIABETESTYP=1, "Type 1 diabetes"	HCONDCODE33=1
		DIABETESTYP=2, "Type 2 diabetes"	HCONDCODE34=1
		DIABETESTYP=3, "Gestational diabetes/ during pregnancy"	HCONDCODE35=1
		DIABETESTYP=4, "Other type of diabetes"	HCONDCODE36=1
		DIABETESTYP=5, "More than one of the above"	-
		DIABETESTYP=6, "Don't Know"	-
HCOND15=1	Epilepsy		HCONDCODE15=1
HCOND16=1	High blood pressure		HCONDCODE16=1
HCOND18=1	Other		HCONDCODE97=1
HCOND19=1	Multiple Schlerosis		HCONDCODE19=1
HCOND20=1	H.I.V.		HCONDCODE20=1

HCOND21=1	COPD (Chronic Obstructive Pulmonary Disease)		HCONDCODE21=1
HCOND22=1	An emotional, nervous or psychiatric problem	MHEALTHTYP=1, "Anxiety"	HCONDCODE37=1
		MHEALTHTYP=2, "Depression"	HCONDCODE38=1
		MHEALTHTYP=3, "Psychosis or schizophrenia"	HCONDCODE39=1
		MHEALTHTYP=4, "Bipolar disorder or manic depression"	HCONDCODE40=1
		MHEALTHTYP=5, "An eating disorder"	HCONDCODE41=1
		MHEALTHTYP=6, "Post-traumatic disorder"	HCONDCODE42=1
		MHEALTHTYP=7, "Other"	HCONDCODE43=1
HCOND96=1	None		HCONDCODE96=1

Continuing sample members, Wave 10

As mentioned above, in Wave 10, continuing sample members were again asked about all the health conditions they had ever been diagnosed with (and so the new question was given a new name):

HCONDEVER: *“Has a doctor or other health professional ever told you that you have any of these conditions?”*

Their responses were recorded in **HCONDEVER *** which had a value of 1 if that condition was mentioned and 0 otherwise. If none of the conditions listed were chosen then the variable, **HCONDNEVER96**, labelled “none of these” was set to 1, and 0 otherwise. Those who chose **HCONDEVER2=1** were asked **ARTHTYP**, **HCONDEVER13=1** were asked **CANCERTYP**, **HCONDEVER14=1** were asked **DIABETESTYP**, and **HCONDEVER22=1** are asked **MHEALTHTYP**. Using the responses from **HCONDEVER *** and these follow-up questions, variables, **HCONDNCODE1, 3-8, 10-12, 15-16, 19-21, 23-43** were computed which had a value of 1 if that condition was mentioned and 0 otherwise. If none of the conditions listed were chosen then the variable, **HCONDNCODE96**, labelled “none of these” was set to 1, and 0 otherwise. So, **HCONDNCODE1, 3-8, 10-12, 15-16, 19-21, 23-43, 96** is the complete list of health conditions ever diagnosed. This information is summarised below.

Note, the responses to HIV health condition (HCOND20, HCONDNCODE20) are only available under Special License. Although respondents were allowed to report the specific “other” health condition which was recorded verbatim, these are not released (HCONDEVERO).

For each health condition mentioned, i.e., **HCONDNCODE*=1**, respondents were asked these follow-up questions:

- **HCONDNS:** *“Do you still have [HCONDNCODE]?”*
The responses were recorded in **HCONDNS***, which had a value of 1 if the response was Yes, and 2 if the response was No. These were not asked in case of health conditions for which the follow-ups did not make sense and so **HCONDNS6/7/19/20 & HCONDNS25/32/36/43/97** do not exist.
- **HCONDNA:** *“What age were you when you were first told you had a {if HCondncode = 6/7} [HCondncode]?”*
The responses were recorded in **HCONDNA***. These were not asked in case of health conditions for which these follow-ups did not make sense and so **HCONDNA25/32/36/43/97** do not exist.
- **HCONDNHEART:** *“Has a doctor or other health professional newly diagnosed you as having had a heart attack or myocardial infarction since [ff_IntDate], when we last interviewed you? If you are uncertain about the timing of the diagnosis, report the diagnosis at this interview.”*
The responses were recorded as 1 for Yes and 2 for No. This question was asked only in case of “heart attack or myocardial infarction”, i.e., **HCONDNCODE6=1**.
- **HCONDNSTROKE:** *“Has a doctor or other health professional newly diagnosed you as having had a stroke since [ff_IntDate], when we last interviewed you?”*
The responses were recorded as 1 for Yes and 2 for No. This question was asked only in case of “stroke”, i.e., **HCONDNCODE7=1**.
- **HOSPC:** *“Thinking of your [HCONDNCODE], have you been in hospital or clinic as an in-patient overnight or longer since [ff_IntDate] because of this health condition?”*
The responses were recorded in **HOSPC***, which had a value of 1 if the response was Yes, and 2 if the response was No. These questions were asked only if the respondent said they still had the health condition (**HCONDNS*=1**) OR if they had been diagnosed with “heart

attack or myocardial infarction" or "stroke" since last interview, i.e., **HCONDNHEART=1 OR HCONDNSTROKE=1** OR if they had ever been diagnosed with health conditions "Multiple Schlerosis" or "HIV", i.e., **HCONDNCODE19/20=1**.

- **HOSPDC:** *"How many days have you spent in hospital or clinic as an in-patient since [ff_IntDate] because of your [HCondN]?"*

The responses were recorded in **HOSPDC***. These were asked only if hospitalization had been reported for any health condition, i.e., **HOSPC*=1**.

<i>Summary of health conditions ever diagnosed, asked of continuing sample members in Wave 10</i>			
HCONDEVER1=1	Asthma		HCONDNCODE1=1
HCONDEVER2=1	Arthritis	ARTHTYPN=1 "Osteoarthritis"	HCONDNCODE23=1
		ARTHTYPN=2, "Rheumatoid arthritis"	HCONDNCODE24=1
		ARTHTYPN=3, "Other type of arthritis"	HCONDNCODE25=1
		ARTHTYPN=4, "More than one of the above"	-
		ARTHTYPN=5, "Don't Know"	-
HCONDEVER3=1	Congestive heart failure		HCONDNCODE3=1
HCONDEVER4=1	Coronary heart disease		HCONDNCODE4=1
HCONDEVER5=1	Angina		HCONDNCODE5=1
HCONDEVER6=1	Heart attack or myocardial infarction,		HCONDNCODE6=1
HCONDEVER7=1	Stroke		HCONDNCODE7=1
HCONDEVER8=1	Emphysema		HCONDNCODE8=1
HCONDEVER10=1	Hypothyroidism or an under-active thyroid		HCONDNCODE10=1
HCONDEVER11=1	Chronic bronchitis		HCONDNCODE11=1
HCONDEVER12=1	Any kind of liver condition		HCONDNCODE12=1
HCONDEVER13=1	Cancer or malignancy	CANCERTYPN=1, "Bowel/colorectal"	HCONDNCODE26=1
		CANCERTYPN=2, "Lung"	HCONDNCODE27=1
		CANCERTYPN=3, "Breast"	HCONDNCODE28=1
		CANCERTYPN=4, "Prostrate" [Not asked of women]	HCONDNCODE29=1
		CANCERTYPN=5, "Liver"	HCONDNCODE30=1
		CANCERTYPN=6, "Skin cancer or melanoma"	HCONDNCODE31=1
		CANCERTYPN=7, "Other"	HCONDNCODE32=1
HCONDEVER14=1	Diabetes	DIABETESTYPN=1, "Type 1 diabetes"	HCONDNCODE33=1
		DIABETESTYPN=2, "Type 2 diabetes"	HCONDNCODE34=1
		DIABETESTYPN=3, "Gestational diabetes/during pregnancy"	HCONDNCODE35=1
		DIABETESTYPN=4, "Other type of diabetes"	HCONDNCODE36=1
		DIABETESTYPN=5, "More than one of the above"	-
		DIABETESTYPN=6, "Don't Know"	-
HCONDEVER15=1	Epilepsy		HCONDNCODE15=1
HCONDEVER16=1	High blood pressure		HCONDNCODE16=1
HCONDEVER18=1	Other		HCONDNCODE97=1
HCONDEVER19=1	Multiple Schlerosis		HCONDNCODE19=1
HCONDEVER20=1	H.I.V.		HCONDNCODE20=1
HCONDEVER21=1	COPD (Chronic Obstructive Pulmonary Disease		HCONDNCODE21=1

HCONDEVER22=1	An emotional, nervous or psychiatric problem	MHEALTHTYPN=1, "Anxiety"	HCONDNCODE37=1
		MHEALTHTYPN=2, "Depression"	HCONDNCODE38=1
		MHEALTHTYPN=3, "Psychosis or schizophrenia"	HCONDNCODE39=1
		MHEALTHTYPN=4, "Bipolar disorder or manic depression"	HCONDNCODE40=1
		MHEALTHTYPN=5, "An eating disorder"	HCONDNCODE41=1
		MHEALTHTYPN=6, "Post-traumatic disorder"	HCONDNCODE42=1
		MHEALTHTYPN=7, "Other"	HCONDNCODE43=1
HCONDEVER96=1	None		HCONDNCODE96=1

Continuing sample members, Waves 11-12

In Waves 11-12, all continuing sample members were asked if they still had any health condition previously reported, fed forwarded from previous wave, and available as the variables, **PREVHCOND***, which had a value of 1 if that condition was mentioned and 0 otherwise. If prior health condition was stroke or heart attack or any “other” type of health condition that was not carried forward, so **PREVHCOND6/7/25/32/36/43/97** do not exist. *Note in the questionnaire **PREVHCOND*** are referred to as **FF_PREVHCONDSTIL*** and the “HIV” health condition variable (**PREVHCOND20**) is only available under Special License.*

For each previously mentioned health condition, i.e., **PREVHCOND*=1**, respondents were asked these follow-up questions:

- **HCONDP**: “According to our records you have previously mentioned that you have been diagnosed with [ff_prevhcondstil] in the past. Do you still have [ff_prevhcondstil]?”
The responses were recorded in **HCONDP***, which had values of 1 for Yes and 2 for No. These questions were not asked in case of “multiple sclerosis” or “HIV”, i.e., not asked if **PREVHCOND19/20=1**.
- **HOSPCP**: “Thinking of your [ff_prevhcondstil], have you been in hospital or clinic as an in-patient overnight or longer since [ff_IntDate] because of this health condition?”
The responses were recorded in **HOSPCP***, which had values of 1 for Yes and 2 for No. These questions were only asked if the respondent said they still had the condition, **HCONDP*=1**, or they ever had HIV or multiplesclerosis, **PREVHCOND19/20=1**.
- **HOSPDGP**: “How many days have you spent in hospital or clinic as an in-patient since [ff_IntDate] because of your [ff_prevhcondstil]?”
The responses were recorded in **HOSPDGP***. Respondents were asked this question only if they had reported any hospitalisations, **HOSPCP*=1**

As in Waves 2-9, continuing sample members were also asked about any new health conditions they had been diagnosed with since the last interview. The health conditions and the follow-ups are the same as introduced in Wave 10:

HCONDNEW: “Since [ff_IntDate] has a doctor or other health professional newly diagnosed you as having any of the following conditions? Please just tell me the numbers that apply”

The responses were recorded in **HCONDNEW*** which have a value of 1 if that condition was mentioned and 0 otherwise. If none of the conditions listed were chosen then the variable, **HCONDNEW96**, labelled “none of these” was set to 1, and 0 otherwise. Those who chose “Arthritis” (**HCONDNEW2=1**) were asked **ARTHSTYPN**, “Cancer or malignancy” (**HCONDNEW13=1**) were asked **CANCERTYPN**, “Diabetes” (**HCONDNEW14=1**) were asked **DIABETESTYPN**, and “An emotional, nervous or psychiatric problem” (**HCONDNEW22=1**) are asked **MHEALTHSTYPN**. Using the responses from **HCONDNEW*** and these follow-up questions, variables, **HCONDNCODE1, 3-8, 10-12, 15-16, 19-21, 23-43** were computed which had a value of 1 if that condition was mentioned and 0 otherwise. If none of the conditions listed were chosen then the variable, **HCONDNCODE96**, labelled “none of these” was set to 1, and 0 otherwise. So, **HCONDNCODE1, 3-8, 10-12, 15-16, 19-21, 23-43, 96** is the complete list of health conditions ever diagnosed. This information is summarised below.

Note, the responses to HIV health condition (HCONDNEW20, HCONDCODE20) are only available under Special License. Although respondents were allowed to report the specific “other” health condition which was recorded verbatim, these are not released (HCONDNEW0).

For each of these newly diagnosed health condition, i.e., **HCONDNCODE=1**, respondents were asked these follow-up questions:

- **HCONDNS:** *“Do you still have [HCONDNCODE]?”*
The responses were recorded in **HCONDNS***, which had values of 1 for Yes and 2 for No. These follow-ups were not asked in case of health conditions for which the follow-ups do not make sense and so **HCONDNS6/7/19/25/32/36/43/97**.
- **HOSPC:** *“Thinking of your [HCONDNCODE], have you been in hospital or clinic as an in-patient overnight or longer since [ff_IntDate] because of this health condition?”*
The responses were recorded in **HOSPC***, which had values of 1 for Yes and 2 for No. These were not asked in case of health conditions for which the follow-ups do not make sense and so **HOSPC25/32/36/43/97** do not exist. *[This was not conditional on if they still had the condition]*
- **HOSPCD:** *“How many days have you spent in hospital or clinic as an in-patient since [ff_IntDate] because of your [HCONDNCODE]?”*
The responses were recorded in **HOSPCD***. Respondents were asked these questions only if they had reported hospitalisations for any health condition, **HOSPC*=1**.

Wave 13

New entrants and Continuing sample members

In Wave 13, most of the health conditions questions were the same as in Waves 11-12, with some exceptions.

The health condition “An emotional, nervous or psychiatric problem” was dropped from the list for **HCOND**, the question about health conditions ever diagnosed with for new entrants. But this was not the case for the newly diagnosed health conditions question for continuing sample members, **HCONDNEW**.

New entrants and continuing sample members were asked a new Mental Health Conditions module which included the question:

MHCOND: “Has a doctor or other health professional ever told you that you have any of these conditions? Please just tell me the numbers that apply. Please select all of the answers that apply to you.”

Responses were recorded in the variables **MHCOND***, with a value of 1 if the mental health condition was mentioned and 0 otherwise (see the table below for the list of response options). Those who chose “Any other anxiety disorder” (**MHCond=18**), were also asked **Mhcondoanx**, and those who chose “Any other mental, emotional or neurological problem or condition” (**MHCond=19**), were also asked **MHCONDO**. Responses to these questions were recorded in MHCONDCODE38-MHCONDCODE65. Those who did not chose any condition were assigned a value of 1 for the variables **MHCOND96** & **MHCONDCODE96**.

For each mental health condition chosen, i.e., **MHCONDCODE*=1**, these follow-up questions were asked:

- **MHCONDA:** “What age were you when you were first told you had **MHCONDCODE?**”
The responses were recorded in **MHCONDA***. These questions were not asked in case of **MHCOND64/65/96=1**.
- **MHconds:** “Do you still have **MHCondcode?**”
The responses were recorded in **MHCONDS***, with values of 1 for yes and 2 for No. These questions were not asked in case of **MHCOND58/64/65/96=1**.

<i>Summary of mental health conditions asked of new entrants & continuing sample members in Wave 13</i>		
MHCOND2=1	Depression	MHCONDCODE38=1
MHCOND3=1	Psychosis or schizophrenia	MHCONDCODE39=1
MHCOND4=1	Bipolar disorder (or 'manic depression')	MHCONDCODE40=1
MHCOND5=1	An eating disorder	MHCONDCODE41=1
MHCOND6=1	Post-traumatic stress disorder	MHCONDCODE42=1
MHCOND8=1	A phobia	MHCONDCODE54=1
MHCOND9=1	Panic attacks	MHCONDCODE55=1
MHCOND10=1	Attention deficit hyperactivity disorder (ADHD) or Attention deficit disorder (ADD)	MHCONDCODE56=1
MHCOND11=1	Post-natal depression	MHCONDCODE57=1
MHCOND12=1	Dementia (including Alzheimer's)	MHCONDCODE58=1
MHCOND13=1	Nervous breakdown	MHCONDCODE59=1
MHCOND14=1	A personality disorder	MHCONDCODE60=1
MHCOND15=1	Obsessive compulsive disorder (OCD)	MHCONDCODE61=1
MHCOND16=1	Seasonal affective disorder	MHCONDCODE62=1

MHCOND17=1	Alcohol or drug dependence	MHCONDCODE63=1
MHCOND18=1	Any other anxiety disorder	MHCONDCODE64=1
MHCOND19=1	Any other mental, emotional or neurological problem or condition	MHCONDCODE65=1
MHCOND96=1	None of these	MHCONDCODE96=1

Wave 14

New entrants

New entrants were asked a detailed mental health conditions module (similar to the ones asked in Wave 13) but in Wave 14 these were combined with responses for the usual health conditions responses to create a very detailed list of health conditions.

MHCOND: *“Has a doctor or other health professional ever told you that you have any of these conditions? Please just tell me the numbers that apply. Please select all of the answers that apply to you.”*

Respondents were asked to choose from this list: “Depression”, “Psychosis or schizophrenia”, “Bipolar disorder (or 'manic depression')”, “An eating disorder”, “Post-traumatic stress disorder”, “A phobia”, “Panic attacks”, “Attention deficit hyperactivity disorder (ADHD) or Attention deficit disorder (ADD)”, “Post-natal depression”, “Dementia (including Alzheimer’s)”, “Nervous breakdown”, “A personality disorder”, “Obsessive compulsive disorder (OCD)”, “Seasonal affective disorder”, “Alcohol or drug dependence”, “Any other anxiety disorder”, “Generalised anxiety disorder”, “Any other emotional, nervous or psychiatric problem or condition”.

The responses were recorded in the variables **MHCOND***, which have a value of 1 if that condition was mentioned and 0 otherwise. Those who chose **MHCOND=18**, were also asked about other anxiety disorders (**MHCONDOANX**) and those who chose **MHCOND=19**, were also asked about other mental, emotional or neurological problems (**MHCONDO**).

The health conditions question was the same as in past waves, **HCOND**, but the list of conditions and some follow-ups were changed. Additional conditions and their responses were recorded in, **HCOND23** (“Chronic kidney disease”), **HCOND24** (“Conditions affecting the brain and nerves, such as Parkinson’s disease, motor neurone disease, a learning disability or cerebral palsy”), **HCOND26** (“Sickle cell disease”), **HCOND27** (“Very overweight (a BMI of 40 or above)”), **HCOND29** (“Problems with your spleen”). As before, those who chose “Arthritis” (**HCOND2=1**) were asked **ARTHTYP**, “Cancer or malignancy” (**HCOND13=1**) were asked **CANCERTYP**, “Diabetes” (**HCOND14=1**) were asked **DIABETESTYP**, **HCOND22=1**. Additionally, those who chose (“Conditions affecting the brain and nerves, such as Parkinson’s disease, motor neurone disease, a learning disability or cerebral palsy” (**HCOND24=1**) were asked **BRAINNERTYP** and those who chose (“Problems with your spleen” (**HCOND29=1**) were asked **SPLEENOUT**. Using the responses from all these questions including the mental health conditions, a composite list of health conditions was created: **HCONDCODE1, 3-8, 10-12, 15-16, 19-21, 23-42, 66-89, 97**. Those who did not choose any of these health conditions were coded as 1 for **HCONDCODE96**.

For each health condition mentioned, i.e., **HCONDCODE*=1**, respondents were asked these follow-up questions:

- **HCONDA:** *“What age were you when you were first told you had a [HCONDCODE]?”*
The responses were recorded in **HCONDA***. These questions were not asked for health conditions for which it didn’t make sense and so **HCONDA25/32/36/76/77/85/97** do not exist.
- **HCONDS:** *“Do you still have [HCONDCODE]?”*
The responses were recorded in **HCONDS***, with a value of 1 for Yes, and 2 for No. These questions were not asked for health conditions for which it didn’t make sense and so **HCONDS6/7/10/19/20/23/24/25/32/36/70/71/76/77/78/81/83/84/85/87/97** do not exist. This was also not asked if **HCOND86=1 & SPLEENOUT=1**.

<i>Summary of health conditions ever diagnosed with, asked of new entrants in Wave 14</i>			
HCOND1=1	Asthma		HCONDCODE1=1
HCOND2=1	Arthritis	ARTHTYP=1 "Osteoarthritis"	HCONDCODE23=1
		ARTHTYP=2, "Rheumatoid arthritis"	HCONDCODE24=1
		ARTHTYP=3, "Other type of arthritis"	HCONDCODE25=1
		ARTHTYP=4, "More than one of the above"	-
		ARTHTYP=5, "Don't Know"	-
HCOND3=1	Congestive heart failure		HCONDCODE3=1
HCOND4=1	Coronary heart disease		HCONDCODE4=1
HCOND5=1	Angina		HCONDCODE5=1
HCOND6=1	Heart attack or myocardial infarction,		HCONDCODE6=1
HCOND7=1	Stroke		HCONDCODE7=1
HCOND8=1	Emphysema		HCONDCODE8=1
HCOND10=1	Hypothyroidism or an under-active thyroid		HCONDCODE10=1
HCOND11=1	Chronic bronchitis		HCONDCODE11=1
HCOND12=1	Any kind of liver condition		HCONDCODE12=1
HCOND13=1	Cancer or malignancy	CANCERTYP=1, "Bowel/colorectal"	HCONDCODE26=1
		CANCERTYP=2, "Lung"	HCONDCODE27=1
		CANCERTYP=3, "Breast"	HCONDCODE28=1
		CANCERTYP=4, "Prostrate" [Not asked of women]	HCONDCODE29=1
		CANCERTYP=5, "Liver"	HCONDCODE30=1
		CANCERTYP=6, "Skin cancer or melanoma"	HCONDCODE31=1
		CANCERTYP=7, "Other"	HCONDCODE32=1
		CANCERTYP=8, "Blood or bone marrow cancer, such as leukaemia"	HCONDCODE79=1
HCOND14=1	Diabetes	DIABETESTYP=1, "Type 1 diabetes"	HCONDCODE33=1
		DIABETESTYP=2, "Type 2 diabetes"	HCONDCODE34=1
		DIABETESTYP=3, "Gestational diabetes/ during pregnancy"	HCONDCODE35=1
		DIABETESTYP=4, "Other type of diabetes"	HCONDCODE36=1

		DIABETESTYP=5, "More than one of the above"	-
		DIABETESTYP=6, "Don't Know"	-
HCOND15=1	Epilepsy		HCONDCODE15=1
HCOND16=1	High blood pressure		HCONDCODE16=1
HCOND18=1	Other		HCONDCODE97=1
HCOND19=1	Multiple Schlerosis		HCONDCODE19=1
HCOND20=1	H.I.V.		HCONDCODE20=1
HCOND21=1	COPD (Chronic Obstructive Pulmonary Disease)		HCONDCODE21=1
MHCOND2=1	Depression		HCONDCODE38=1
MHCOND3=1	Psychosis or schizophrenia		HCONDCODE39=1
MHCOND4=1	Bipolar disorder (or 'manic depression')		HCONDCODE40=1
MHCOND5=1	An eating disorder		HCONDCODE41=1
MHCOND6=1	Post-traumatic stress disorder		HCONDCODE42=1
MHCOND8=1	A phobia		HCONDCODE66=1
MHCOND9=1	Panic attacks		HCONDCODE67=1
MHCOND10=1	Attention deficit hyperactivity disorder (ADHD) or Attention deficit disorder (ADD)		HCONDCODE68=1
MHCOND11=1	Post-natal depression		HCONDCODE69=1
MHCOND12=1	Dementia (including Alzheimer's)		HCONDCODE70=1
MHCOND13=1	Nervous breakdown		HCONDCODE71=1
MHCOND14=1	A personality disorder		HCONDCODE72=1
MHCOND15=1	Obsessive compulsive disorder (OCD)		HCONDCODE73=1
MHCOND16=1	Seasonal affective disorder		HCONDCODE74=1
MHCOND17=1	Alcohol or drug dependence		HCONDCODE75=1
MHCOND18=1	Any other anxiety disorder		HCONDCODE76=1
MHCOND19=1	Generalised anxiety disorder		HCONDCODE89=1
MHCOND97=1	Any other emotional, nervous or psychiatric problem or condition		HCONDCODE77=1
HCOND28=1	Cystic Fibrosis		HCONDCODE78=1
HCOND23=1	Chronic Kidney Disease		HCONDCODE80=1

HCOND24=1	Conditions affecting the brain and nerves, such as Parkinson's disease, motor neurone disease, a learning disability or cerebral palsy	BRAINNERVTYP=1	HCONDCODE81=1
		BRAINNERVTYP=2	HCONDCODE82=1
		BRAINNERVTYP=4	HCONDCODE83=1
		BRAINNERVTYP=5	HCONDCODE84=1
		BRAINNERVTYP=6	HCONDCODE85=1
HCOND29=1	Problems with your Spleen		HCONDCODE86=1
HCOND26=1	Sickle Cell Disease		HCONDCODE87=1
HCOND27=1	Very Overweight (a BMI of 40 or above)		HCONDCODE88=1
HCOND96=1	None	MHCOND96=1	HCONDCODE96=1

Continuing sample members

Wave 14 onwards, the health condition questions were changed further in line with the questions for new entrants. The corresponding health condition question and follow-ups for this sample are **HCONDNEW, ARHTYPN, CANTERTYPN, DIABETESTYPN, BRAINNERVTYPN, SPLEENOUTN**. These respondents were also asked the same mental health conditions questions, **MHCONDN, MHCONDNOANX, MHCONDNO**. Using the responses from all these questions including the mental health conditions, a composite list of health conditions was created: **HCONDNCODE1, 3-8, 10-12, 15-16, 19-21, 23-42, 66-89, 97**. Those who did not choose any of these health conditions were coded as 1 for **HCONDNCODE96**

For each newly diagnosed health condition mentioned, i.e., **HCONDNCODE*=1**, these follow-up questions were asked:

- **HCONDNS**: *“Do you still have [HCONDNCODE]?”*
The responses were recorded in **HCONDNS***, with a value of 1 for Yes and 2 for No. These questions were not asked for health conditions for which these follow-ups didn’t make sense and so **HCONDS6/7/10/19/20/23/24/25/32/36/70/71/76/77/78/81/83/84/85/87/97** do not exist. This was also not asked if **HCOND86=1 & SPLEENOUT=1**.
- **HOSPC**: *“Thinking of your [HCONDNCODE], have you been in hospital or clinic as an in-patient overnight or longer since [ff_IntDate] because of this health condition?”*
The responses were recorded in **HOSPC***, with a value of 1 for Yes and 2 for No. These questions were not asked for health conditions for which these follow-ups didn’t make sense and so **HCONDS6/7/10/19/20/23/24/25/32/36/70/71/76/77/78/81/83/84/85/87/97** do not exist. This was also not asked if **HCOND86=1 & SPLEENOUT=1**.
- **HOSPDC**: *“How many days have you spent in hospital or clinic as an in-patient since [ff_IntDate] because of your [HCONDNCODE]?”*
The responses were recorded in **HOSPDC***, and respondents were asked these questions only if they had been hospitalised for a specific health condition, i.e., **HOSPC*=1**

Note continuing sample members were asked two additional mental health questions which were not asked of new entrants:

- **MHGAD**: *“Has a doctor or other health professional ever told you that you have generalised anxiety disorder?”*
Responses were recorded as 1 for Yes and 2 for No.
- **MHGADA**: *“What age were you when you were first told you had generalised anxiety disorder?”*
Responses were recorded as 1 for yes and 2 for No, and this question was asked only if **MHGAD=1**.

Summary of new health conditions diagnosed since last interview, asked of continuing sample members in Wave 14			
HCONDNEW1=1	Asthma		HCONDNCODE1=1
HCONDNEW2=1	Arthritis	ARTHTYPN=1 "Osteoarthritis"	HCONDNCODE23=1
		ARTHTYPN=2, "Rheumatoid arthritis"	HCONDNCODE24=1
		ARTHTYPN=3, "Other type of arthritis"	HCONDNCODE25=1
		ARTHTYPN=4, "More than one of the above"	-
		ARTHTYPN=5, "Don't Know"	-
HCONDNEW3=1	Congestive heart failure		HCONDNCODE3=1
HCONDNEW4=1	Coronary heart disease		HCONDNCODE4=1
HCONDNEW5=1	Angina		HCONDNCODE5=1
HCONDNEW6=1	Heart attack or myocardial infarction,		HCONDNCODE6=1
HCONDNEW7=1	Stroke		HCONDNCODE7=1
HCONDNEW8=1	Emphysema		HCONDNCODE8=1
HCONDNEW10=1	Hypothyroidism or an under-active thyroid		HCONDNCODE10=1
HCONDNEW11=1	Chronic bronchitis		HCONDNCODE11=1
HCONDNEW12=1	Any kind of liver condition		HCONDNCODE12=1
HCONDNEW13=1	Cancer or malignancy	CANCERTYPN=1, "Bowel/colorectal"	HCONDNCODE26=1
		CANCERTYPN=2, "Lung"	HCONDNCODE27=1
		CANCERTYPN=3, "Breast"	HCONDNCODE28=1
		CANCERTYPN=4, "Prostrate" [Not asked of women]	HCONDNCODE29=1
		CANCERTYPN=5, "Liver"	HCONDNCODE30=1
		CANCERTYPN=6, "Skin cancer or melanoma"	HCONDNCODE31=1
		CANCERTYPN=7, "Other"	HCONDNCODE32=1
		CANCERTYPN=8, "Blood or bone marrow cancer, such as leukaemia"	HCONDNCODE79=1
HCONDNEW14=1	Diabetes	DIABESTYPN=1, "Type 1 diabetes"	HCONDNCODE33=1
		DIABESTYPN=2, "Type 2 diabetes"	HCONDNCODE34=1
		DIABESTYPN=3, "Gestational diabetes/ during pregnancy"	HCONDNCODE35=1
		DIABESTYPN=4, "Other type of diabetes"	HCONDNCODE36=1
		DIABESTYPN=5, "More than one of the above"	-
		DIABESTYPN=6, "Don't Know"	-
HCONDNEW15=1	Epilepsy		HCONDNCODE15=1
HCONDNEW16=1	High blood pressure		HCONDNCODE16=1
HCONDNEW18=1	Other		HCONDNCODE97=1
HCONDNEW19=1	Multiple Schlerosis		HCONDNCODE19=1
HCONDNEW20=1	H.I.V.		HCONDNCODE20=1
HCONDNEW21=1	COPD (Chronic Obstructive Pulmonary Disease		HCONDNCODE21=1

MHCONDN2=1	Depression		HCONDNCODE38=1
MHCONDN3=1	Psychosis or schizophrenia		HCONDNCODE39=1
MHCONDN4=1	Bipolar disorder (or 'manic depression')		HCONDNCODE40=1
MHCONDN5=1	An eating disorder		HCONDNCODE41=1
MHCONDN6=1	Post-traumatic stress disorder		HCONDNCODE42=1
MHCONDN8=1	A phobia		HCONDNCODE66=1
MHCONDN9=1	Panic attacks		HCONDNCODE67=1
MHCONDN10=1	Attention deficit hyperactivity disorder (ADHD) or Attention deficit disorder (ADD)		HCONDNCODE68=1
MHCONDN11=1	Post-natal depression		HCONDNCODE69=1
MHCONDN12=1	Dementia (including Alzheimer's)		HCONDNCODE70=1
MHCONDN13=1	Nervous breakdown		HCONDNCODE71=1
MHCONDN14=1	A personality disorder		HCONDNCODE72=1
MHCONDN15=1	Obsessive compulsive disorder (OCD)		HCONDNCODE73=1
MHCONDN16=1	Seasonal affective disorder		HCONDNCODE74=1
MHCONDN17=1	Alcohol or drug dependence		HCONDNCODE75=1
MHCONDN18=1	Any other anxiety disorder		HCONDNCODE76=1
MHCONDN19=1	Generalised anxiety disorder		HCONDNCODE89=1
MHCONDN97=1	Any other emotional, nervous or psychiatric problem or condition		HCONDNCODE77=1
HCONDNEW28=1	Cystic Fibrosis		HCONDNCODE78=1
HCONDNEW23=1	Chronic Kidney Disease		HCONDNCODE80=1
HCONDNEW24=1	Conditions affecting the brain and nerves, such as Parkinson's disease, motor neurone disease, a learning disability or cerebral palsy	BRAINNERVTYPN=1	HCONDNCODE81=1
		BRAINNERVTYPN=2	HCONDNCODE82=1
		BRAINNERVTYPN=4	HCONDNCODE83=1
		BRAINNERVTYPN=5	HCONDNCODE84=1
		BRAINNERVTYPN=6	HCONDNCODE85=1
HCONDNEW29=1	Problems with your Spleen		HCONDNCODE86=1
HCONDNEW26=1	Sickle Cell Disease		HCONDNCODE87=1
HCONDNEW27=1	Very Overweight (a BMI of 40 or above)		HCONDNCODE88=1
HCONDNEW96=1	None	MHCONDN96=1	HCONDNCODE96=1

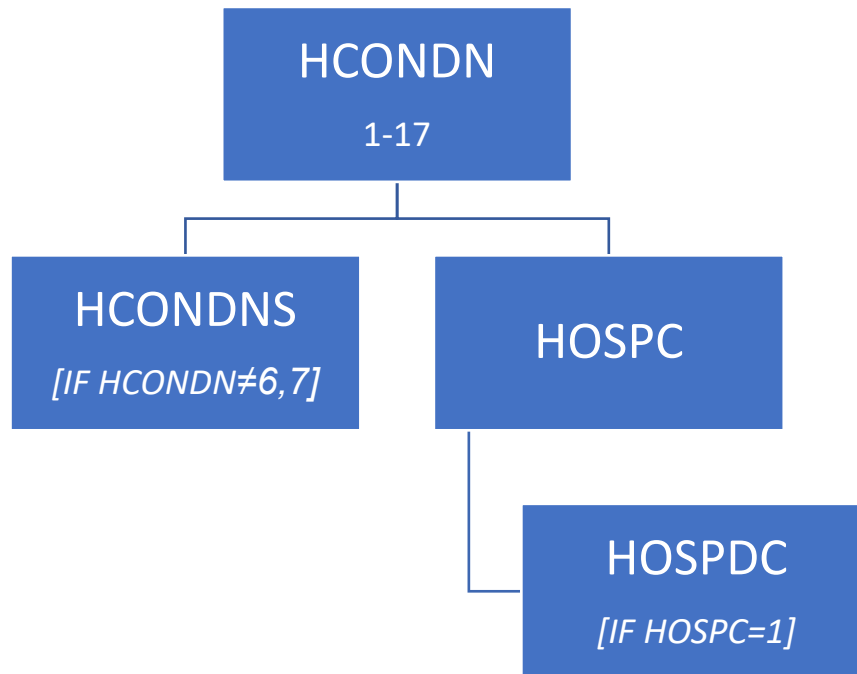
Continuing sample members were also asked about the health conditions they had previously reported, as in Waves 11-12 but with some changes to the routing. All continuing sample members were asked if they still had any health condition previously reported, fed forwarded from previous wave, and available as the variables, **PREVHCOND***, which had a value of 1 if that condition was mentioned and 0 otherwise. *Note in the questionnaire **PREVHCOND*** are referred to as **FF_PREVHCONDSTIL*** and the “HIV” health condition variable (PREVHCOND20) are only available under Special License.*

For each previously mentioned health condition, i.e., **PREVHCOND*=1**, respondents were asked these follow-up questions:

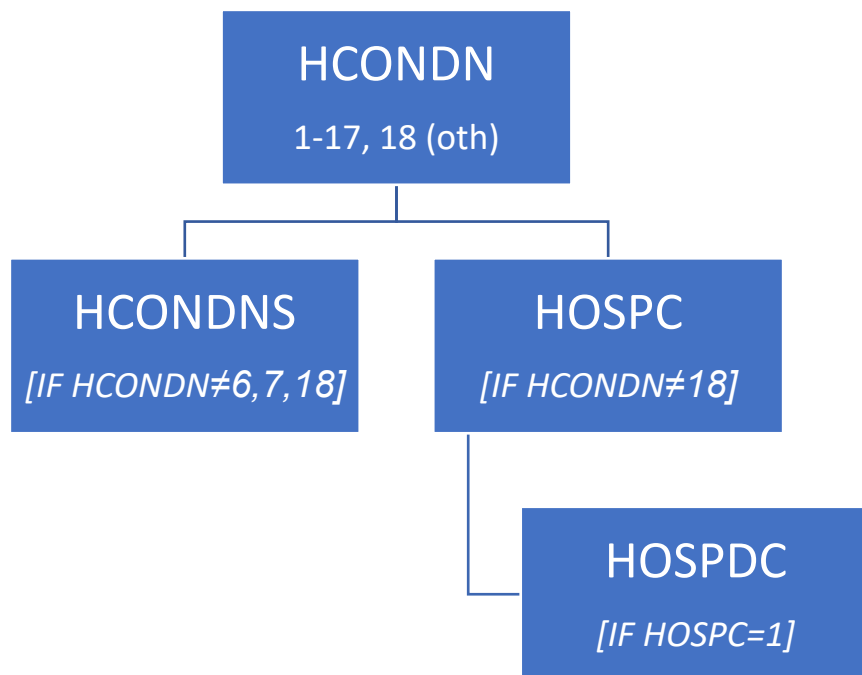
- **HCONDP**: *“According to our records you have previously mentioned that you have been diagnosed with [ff_prevhcondstil] in the past. Do you still have [ff_prevhcondstil]?”*
The responses were recorded in **HCONDP***, which had values of 1 for Yes and 2 for No. Respondents were asked these questions only if that health condition was not mentioned as a newly diagnosed health condition, i.e., **HCONDNCODE*=0**, and these were not asked in case of heart attack, “stroke”, “multiple sclerosis” or “HIV”, i.e., not asked if **PREVHCOND6/7/19/20=1**.
- **HOSPCP**: *“Thinking of your [ff_prevhcondstil], have you been in hospital or clinic as an in-patient overnight or longer since [ff_IntDate] because of this health condition?”*
The responses were recorded in **HOSPCP***, which had values of 1 for Yes and 2 for No. These questions were only asked if the respondent said they still had the condition, **HCONDP*=1**, or they ever had HIV or multiplesclerosis, **PREVHCOND19/20=1**.
- **HOSPDGP**: *“How many days have you spent in hospital or clinic as an in-patient since [ff_IntDate] because of your [ff_prevhcondstil]?”*
The responses were recorded in **HOSPDGP***. Respondents were asked this question only if they had reported any hospitalisations, **HOSPCP*=1**

Appendix A: Diagrammatic representation of the health conditions questions for continuing sample members

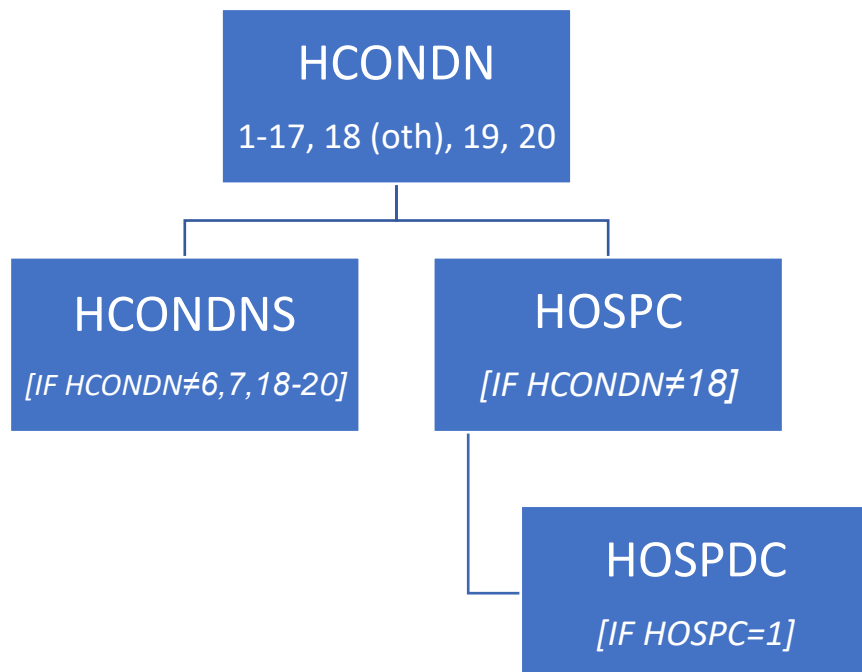
Waves 2-5



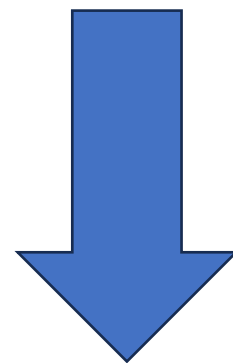
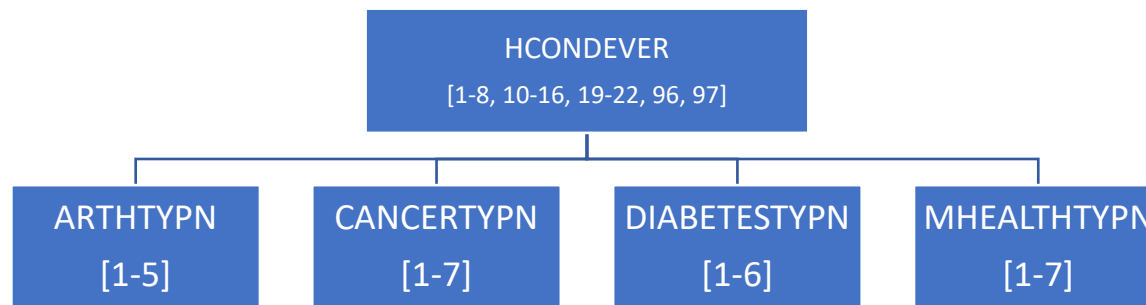
Wave 6



Wave 7-9

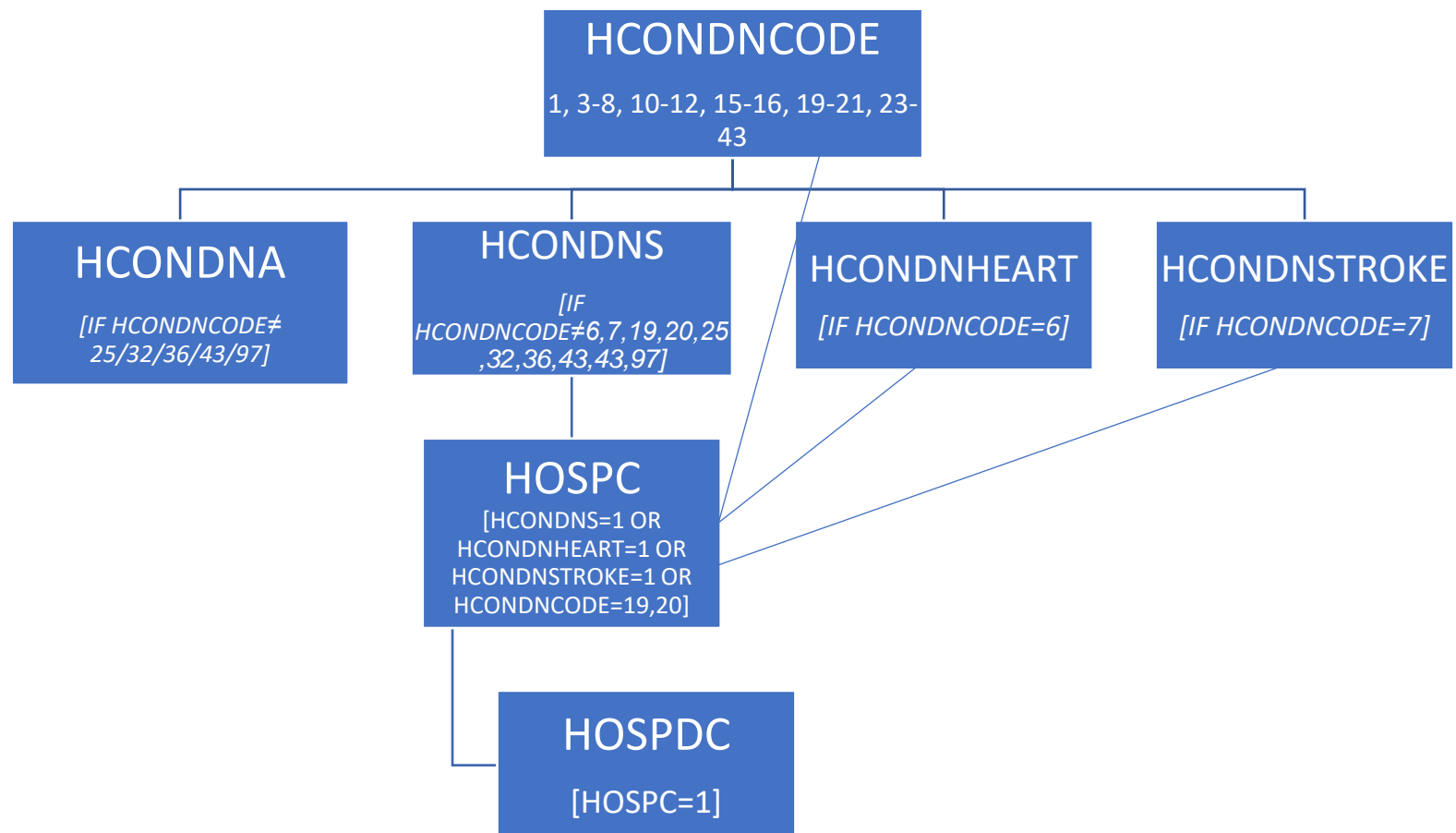


Wave 10

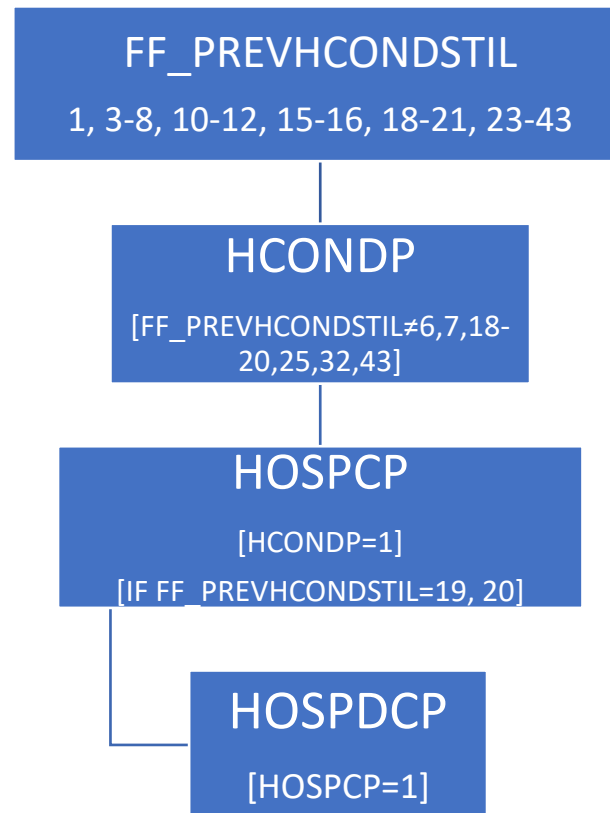


HCONDNCODE

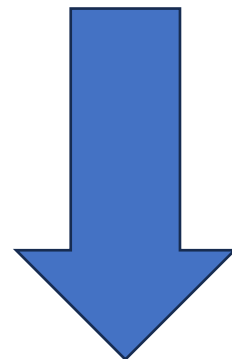
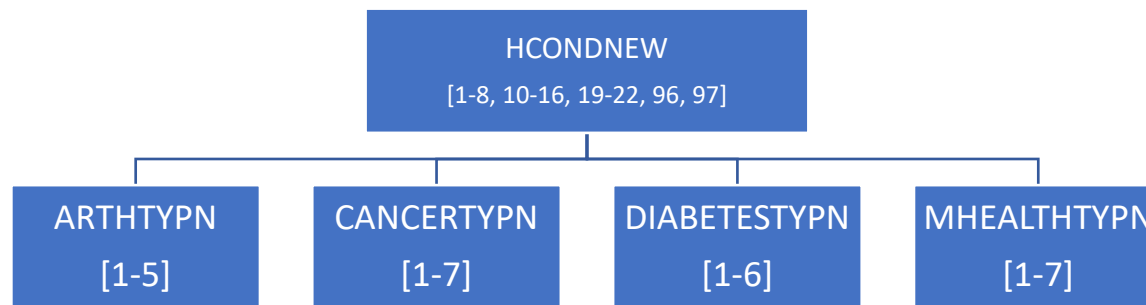
Wave 10 (contd)



Waves 11-13



Waves 11-13 (contd)



HCONDNCODE

Waves 11-13 (contd)

