

# National Health and Nutrition Examination Survey

## 2017-March 2020 Data Documentation, Codebook, and Frequencies

### Medical Conditions (P\_MCQ)

**Data File: P\_MCQ.xpt**

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## Component Description

The NHANES program suspended field operations in March 2020 due to the coronavirus disease 2019 (COVID-19) pandemic. As a result, data collection for the NHANES 2019-2020 cycle was not completed and the collected data are not nationally representative. Therefore, data collected from 2019 to March 2020 were combined with data from the NHANES 2017-2018 cycle to form a nationally representative sample of NHANES 2017-March 2020 pre-pandemic data. These data are available to the public. Please refer to the Analytic Notes section for more details on the use of the data.

The medical conditions (variable name prefix MCQ) section provides self- and proxy-reported personal interview data on a broad range of health conditions and medical history for both children and adults. The NHANES MCQ section is generally modeled on the "Medical Conditions" questionnaire section of the U.S. National Health Interview Survey.

## Eligible Sample

All participants, 1 year and older, in the NHANES 2017-March 2020 pre-pandemic sample are included in this dataset.

## Interview Setting and Mode of Administration

The questionnaire was asked, in the home, by trained interviewers using Computer-Assisted Personal Interview (CAPI) system. A proxy provided information for survey participants who were under 16 years of age and for individuals who could not answer the questions themselves. The respondent selected the language of interview (English or Spanish) or requested that an interpreter be used. Hand cards, showing response choices or information that survey participants needed to answer the questions, were used for some questions. The hand cards were printed in English, Spanish, Mandarin Chinese (both traditional and simplified), Korean, and Vietnamese. The interviewer directed the respondent to the appropriate hand card during the interview. When necessary, the interviewer further assisted the respondent by reading the response choices listed on the hand cards.

The NHANES [2017-2018](#) and [2019-2020](#) questionnaires are available on the NHANES website.

## Quality Assurance & Quality Control

The CAPI system is programmed with built-in consistency checks to reduce data entry errors. CAPI also uses online help screens to assist interviewers in defining key terms used in the questionnaire.

After collection, interview data were reviewed by the NHANES field office staff for accuracy and completeness of selected items. The interviewers were required to audio-record interviews and the recorded interviews were reviewed by NCHS staff and interviewer supervisors.

## Data Processing and Editing

Frequency counts were checked, "skip" patterns were verified, and the reasonableness of question responses was reviewed. Edits were made to some variables to ensure the completeness, consistency, and

analytic usefulness of the data. Edits were also made, when necessary, to address data disclosure concerns.

For the 2019-20 survey cycle, the questions MCQ160G (*"Has a doctor or other health professional ever told you that you had emphysema?"*), MCQ160K (*"Has a doctor or other health professional ever told you that you had chronic bronchitis?"*) and MCQ160O (*"Has a doctor or other health professional ever told you that you had COPD?"*) were replaced by MCQ160P (*"Have you ever been told by a doctor or other health professional that you had chronic obstructive pulmonary disease or COPD, emphysema, or chronic bronchitis?"*). To make 2017-18 data compatible to 2019-20 data, respondents who responded "Yes" to either MCQ160G, MCQ160K, or MCQ160O were coded as "Yes" to MCQ160P. Respondents who responded "No" to MCQ160G, MCQ160K, and MCQ160O were coded as "No" to MCQ160P.

## Analytic Notes

The COVID-19 pandemic required suspension of NHANES 2019-2020 field operations in March 2020 after data were collected in 18 of the 30 survey locations in the 2019-2020 sample. Because the collected data were not nationally representative, these data were combined with data from the previous cycle (2017-2018) to create a 2017-March 2020 pre-pandemic data file. A special weighting process was applied to the 2017-March 2020 pre-pandemic data file. The resulting sample weights in the demographic data file should be used to calculate estimates from the combined cycles. These sample weights are not appropriate for independent analyses of the 2019-2020 data and will not yield nationally representative results for either the 2017-2018 data alone or the 2019-March 2020 data alone. Please refer to the NHANES website for additional information for the NHANES 2017-March 2020 pre-pandemic data, and for the previous 2017-2018 public use data file with specific weights for that 2-year cycle.

Since the questionnaire was asked during the household interview, the interview sample weights should be used in the analysis. However, if the data is joined with data from the Mobile Exam Center (MEC), the MEC sample weights should be used.

## Codebook and Frequencies

### SEQN - Respondent sequence number

<b>Variable Name:</b>	SEQN
<b>SAS Label:</b>	Respondent sequence number
<b>English Text:</b>	Respondent sequence number.
<b>Target:</b>	Both males and females 1 YEARS - 150 YEARS

## MCQ010 - Ever been told you have asthma

**Variable Name:** MCQ010

**SAS Label:** Ever been told you have asthma

**English Text:** The following questions are about different medical conditions. Has a doctor or other health professional ever told {you/SP} that {you have/s/he/SP has} asthma (az-ma)?

**English Instructions:** CAPI INSTRUCTION: IF SP AGE >= 16, DISPLAY "YOU" AND "YOU HAVE". IF SP AGE = 12-15, DISPLAY "SP" AND "S/HE HAS". IF SP AGE < 12, DISPLAY "YOU" AND "SP HAS".

**Target:** Both males and females 1 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	2322	2322	
2	No	12647	14969	AGQ030
7	Refused	0	14969	AGQ030
9	Don't know	17	14986	AGQ030
.	Missing	0	14986	

## MCQ025 - Age when first had asthma

**Variable Name:** MCQ025

**SAS Label:** Age when first had asthma

**English Text:** How old {were you/was SP} when {you were/s/he was} first told {you/he/she} had asthma (az-ma)?

**English Instructions:** IF LESS THAN 1 YEAR, ENTER 1. CAPI INSTRUCTION: IF SP AGE >= 16, DISPLAY "WERE YOU" AND "YOU WERE". IF SP AGE = 12-15, DISPLAY "WAS {SP}" AND "S/HE WAS". IF SP AGE < 12, DISPLAY "WAS {SP}" AND "YOU WERE". ENTER AGE IN YEARS. CAPI INSTRUCTION: HARD EDIT: 1-120

**Target:** Both males and females 1 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1 to 79	Range of Values	2273	2273	
80	80 years or older	11	2284	
77777	Refused	0	2284	
99999	Don't know	38	2322	
.	Missing	12664	14986	

## MCQ035 - Still have asthma

**Variable Name:** MCQ035  
**SAS Label:** Still have asthma  
**English Text:** {Do you/Does SP} still have asthma (az-ma)?  
**Target:** Both males and females 1 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	1423	1423	
2	No	850	2273	AGQ030
7	Refused	1	2274	AGQ030
9	Don't know	48	2322	AGQ030
.	Missing	12664	14986	

## MCQ040 - Had asthma attack in past year

**Variable Name:** MCQ040**SAS Label:** Had asthma attack in past year**English Text:** During the past 12 months, {have you/has SP} had an episode of asthma (azma) or an asthma attack?**Target:** Both males and females 1 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	636	636	
2	No	783	1419	
7	Refused	1	1420	
9	Don't know	3	1423	
.	Missing	13563	14986	

## MCQ050 - Emergency care visit for asthma/past yr

**Variable Name:** MCQ050**SAS Label:** Emergency care visit for asthma/past yr**English Text:** [During the past 12 months], {have you/has SP} had to visit an emergency room or urgent care center because of asthma (az-ma)?**Target:** Both males and females 1 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	295	295	
2	No	1128	1423	
7	Refused	0	1423	
9	Don't know	0	1423	
.	Missing	13563	14986	

## AGQ030 - Did SP have episode of hay fever/past yr

**Variable Name:** AGQ030**SAS Label:** Did SP have episode of hay fever/past yr**English Text:** During the past 12 months, {have you/has SP} had an episode of hay fever?**Target:** Both males and females 1 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	1316	1316	
2	No	5292	6608	
7	Refused	0	6608	
9	Don't know	7	6615	
.	Missing	8371	14986	



## MCQ053 - Taking treatment for anemia/past 3 mos

**Variable Name:** MCQ053**SAS Label:** Taking treatment for anemia/past 3 mos**English Text:** During the past 3 months, {have you/has SP} been on treatment for anemia (a-nee-me-a), sometimes called "tired blood" or "low blood"? [Include diet, iron pills, iron shots, transfusions as treatment.]**Target:** Both males and females 1 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	582	582	
2	No	14379	14961	
7	Refused	1	14962	
9	Don't know	24	14986	
.	Missing	0	14986	

## MCQ080 - Doctor ever said you were overweight

**Variable Name:** MCQ080**SAS Label:** Doctor ever said you were overweight**English Text:** Has a doctor or other health professional ever told {you/SP} that {you were/s/he/SP was} overweight?**Target:** Both males and females 16 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	3863	3863	
2	No	6316	10179	
7	Refused	0	10179	
9	Don't know	16	10195	
.	Missing	4791	14986	

## MCQ092 - Ever receive blood transfusion

**Variable Name:** MCQ092**SAS Label:** Ever receive blood transfusion**English Text:** {Have you/Has SP} ever received a blood transfusion?**Target:** Both males and females 6 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	1118	1118	
2	No	11968	13086	MCQ145
7	Refused	1	13087	MCQ145
9	Don't know	130	13217	MCQ145
.	Missing	1769	14986	

## MCD093 - Year receive blood transfusion

**Variable Name:** MCD093

**SAS Label:** Year receive blood transfusion

**English Text:** In what year did {you/SP} receive {your/his/her} first transfusion?

**English Instructions:** ENTER 4-DIGIT YEAR

**Target:** Both males and females 6 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Before 1972	142	142	
2	1972 - 1991	249	391	
3	1992 to present	696	1087	
7	Refused	0	1087	
9	Don't know	31	1118	
.	Missing	13868	14986	

## MCQ145 - CHECK ITEM

<b>Variable Name:</b>	MCQ145
<b>English Instructions:</b>	BOX 7. CHECK ITEM MCQ145: IF SP'S AGE >= 20, GO TO MCQ.160. IF SP's AGE = 12-19, GO TO MCQ500. IF SP AGE 8-11 AND SP IS FEMALE, CONTINUE. OTHERWISE, GO TO MCQ300b.
<b>Target:</b>	Both males and females 2 YEARS - 150 YEARS

## MCQ149 - Menstrual periods started yet?

**Variable Name:** MCQ149**SAS Label:** Menstrual periods started yet?**English Text:** Have {SP's} periods or menstrual (men-stral) cycles started yet?**Target:** Females only 8 YEARS - 11 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	94	94	
2	No	590	684	MCQ220
7	Refused	0	684	MCQ220
9	Don't know	0	684	MCQ220
.	Missing	14302	14986	

## MCQ151 - Age in years at first menstrual period

**Variable Name:** MCQ151  
**SAS Label:** Age in years at first menstrual period  
**English Text:** How old was {SP} when she had {her} first menstrual period?  
**English Instructions:** AGE IN YEARS  
**Target:** Females only 8 YEARS - 11 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
7 to 11	Range of Values	94	94	
77	Refused	0	94	MCQ220
99	Don't know	0	94	MCQ220
.	Missing	14892	14986	

## RHD018 - Estimated age in months at menarche

**Variable Name:** RHD018

**SAS Label:** Estimated age in months at menarche

**English Text:** Derived from RHQ018 - In what month did {SP} have her first menstrual period?

**Target:** Females only 8 YEARS - 11 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
86 to 142	Range of Values	76	76	
7777	Refused	1	77	
9999	Don't know	11	88	
.	Missing	14898	14986	



## MCQ160a - Doctor ever said you had arthritis

**Variable Name:** MCQ160a

**SAS Label:** Doctor ever said you had arthritis

**English Text:** Has a doctor or other health professional ever told {you/SP} that {you/s/he} . .  
.had arthritis (ar-thry-tis)?

**English Instructions:** CAPI INSTRUCTION: TEXT OF QUESTION SHOULD BE OPTIONAL AFTER  
FIRST ITEM IS READ.

**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	2812	2812	
2	No	6394	9206	
7	Refused	0	9206	
9	Don't know	26	9232	
.	Missing	5754	14986	

## MCQ195 - Which type of arthritis was it?

**Variable Name:** MCQ195**SAS Label:** Which type of arthritis was it?**English Text:** Which type of arthritis was it?**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Osteoarthritis or degenerative arthritis	1182	1182	
2	Rheumatoid arthritis	574	1756	
3	Psoriatic arthritis	45	1801	
4	Other	316	2117	
7	Refused	3	2120	
9	Don't know	692	2812	
.	Missing	12174	14986	

## MCQ160b - Ever told had congestive heart failure

**Variable Name:** MCQ160b**SAS Label:** Ever told had congestive heart failure**English Text:** Has a doctor or other health professional ever told {you/SP} that {you/s/he} . .  
.had congestive heart failure?**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	361	361	
2	No	8848	9209	
7	Refused	0	9209	
9	Don't know	23	9232	
.	Missing	5754	14986	

## MCD180b - Age when told you had heart failure

**Variable Name:** MCD180b

**SAS Label:** Age when told you had heart failure

**English Text:** How old {were you/was SP} when {you were/s/he was} first told {you/s/he} . .  
.had congestive heart failure?

**English Instructions:** ENTER AGE IN YEARS. SKIP TO MCQ160c.

**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
18 to 79	Range of Values	319	319	
16	16 years or younger	5	324	
80	80 years or older	33	357	
77777	Refused	0	357	
99999	Don't know	4	361	
.	Missing	14625	14986	

## MCQ160c - Ever told you had coronary heart disease

**Variable Name:** MCQ160c**SAS Label:** Ever told you had coronary heart disease**English Text:** Has a doctor or other health professional ever told {you/SP} that {you/s/he} . .  
.had coronary (kor-o-nare-ee) heart disease?**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	423	423	
2	No	8781	9204	
7	Refused	0	9204	
9	Don't know	28	9232	
.	Missing	5754	14986	

## MCD180c - Age when told had coronary heart disease

**Variable Name:** MCD180c

**SAS Label:** Age when told had coronary heart disease

**English Text:** How old {were you/was SP} when {you were/s/he was} first told {you/s/he} . .  
.had coronary heart disease?

**English Instructions:** ENTER AGE IN YEARS. SKIP TO MCQ160d.

**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
20 to 79	Range of Values	397	397	
16	16 years or younger	5	402	
80	80 years or older	14	416	
77777	Refused	0	416	
99999	Don't know	7	423	
.	Missing	14563	14986	

## MCQ160d - Ever told you had angina/angina pectoris

**Variable Name:** MCQ160d**SAS Label:** Ever told you had angina/angina pectoris**English Text:** Has a doctor or other health professional ever told {you/SP} that {you/s/he} . .  
.had angina (an-gi-na), also called angina pectoris?**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	240	240	
2	No	8951	9191	
7	Refused	0	9191	
9	Don't know	41	9232	
.	Missing	5754	14986	

## MCD180d - Age when told you had angina pectoris

**Variable Name:** MCD180d

**SAS Label:** Age when told you had angina pectoris

**English Text:** How old {were you/was SP} when {you were/s/he was} first told {you/s/he} . .  
.had angina, also called angina pectoris?

**English Instructions:** ENTER AGE IN YEARS. SKIP TO MCQ160e.

**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
20 to 79	Range of Values	222	222	
16	16 years or younger	5	227	
80	80 years or older	7	234	
77777	Refused	0	234	
99999	Don't know	6	240	
.	Missing	14746	14986	



## MCQ160e - Ever told you had heart attack

**Variable Name:** MCQ160e**SAS Label:** Ever told you had heart attack**English Text:** Has a doctor or other health professional ever told {you/SP} that {you/s/he} . .  
.had a heart attack (also called myocardial infarction (my-o-car-dee-al in-fark-shun))?**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	432	432	
2	No	8786	9218	
7	Refused	0	9218	
9	Don't know	14	9232	
.	Missing	5754	14986	

## MCD180e - Age when told you had heart attack

**Variable Name:** MCD180e

**SAS Label:** Age when told you had heart attack

**English Text:** How old {were you/was SP} when {you were/s/he was} first told {you/s/he} . .  
.had a heart attack (also called myocardial infarction)?

**English Instructions:** ENTER AGE IN YEARS. SKIP TO MCQ160f.

**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
19 to 79	Range of Values	400	400	
16	16 years or younger	4	404	
80	80 years or older	24	428	
77777	Refused	0	428	
99999	Don't know	4	432	
.	Missing	14554	14986	

## MCQ160f - Ever told you had a stroke

**Variable Name:** MCQ160f

**SAS Label:** Ever told you had a stroke

**English Text:** Has a doctor or other health professional ever told {you/SP} that {you/s/he} . .  
.had a stroke?

**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	487	487	
2	No	8729	9216	
7	Refused	0	9216	
9	Don't know	16	9232	
.	Missing	5754	14986	

## MCD180F - Age when told you had a stroke

**Variable Name:** MCD180F**SAS Label:** Age when told you had a stroke**English Text:** How old {were you/was SP} when {you were/s/he was} first told {you/s/he} . .  
.had a stroke?**English Instructions:** ENTER AGE IN YEARS. SKIP TO MCQ160m.**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
17 to 79	Range of Values	436	436	
16	16 years or younger	8	444	
80	80 years or older	35	479	
77777	Refused	0	479	
99999	Don't know	8	487	
.	Missing	14499	14986	

## MCQ160m - Ever told you had thyroid problem

**Variable Name:** MCQ160m**SAS Label:** Ever told you had thyroid problem**English Text:** Has a doctor or other health professional ever told {you/SP} that {you/s/he} . .  
.had another thyroid (thigh-roid) problem?**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	1080	1080	
2	No	8132	9212	
7	Refused	2	9214	
9	Don't know	18	9232	
.	Missing	5754	14986	

## MCQ170m - Do you still have thyroid problem

**Variable Name:** MCQ170m**SAS Label:** Do you still have thyroid problem**English Text:** {Do you/Does SP} still . . . have another thyroid problem?**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	810	810	
2	No	229	1039	
7	Refused	1	1040	
9	Don't know	40	1080	
.	Missing	13906	14986	

## MCD180M - Age when told you had thyroid problem

**Variable Name:** MCD180M

**SAS Label:** Age when told you had thyroid problem

**English Text:** How old {were you/was SP} when {you were/s/he was} first told {you/s/he} . .  
.had another thyroid problem?

**English Instructions:** ENTER AGE IN YEARS. SKIP TO MCQ160p.

**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
17 to 79	Range of Values	975	975	
16	16 years or younger	52	1027	
80	80 years or older	35	1062	
77777	Refused	0	1062	
99999	Don't know	18	1080	
.	Missing	13906	14986	

## MCQ160p - Ever told you had COPD, emphysema, ChB

**Variable Name:** MCQ160p

**SAS Label:** Ever told you had COPD, emphysema, ChB

**English Text:** {Have you/Has SP} ever been told by a doctor or other health professional that {you/he/she} . . . had chronic obstructive pulmonary disease or COPD, emphysema, or chronic bronchitis?

**English Instructions:** CAPI INSTRUCTION: TEXT OF QUESTION SHOULD BE OPTIONAL AFTER FIRST ITEM IS READ.

**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	846	846	
2	No	8367	9213	
7	Refused	0	9213	
9	Don't know	19	9232	
.	Missing	5754	14986	



## MCQ160I - Ever told you had any liver condition

**Variable Name:** MCQ160I

**SAS Label:** Ever told you had any liver condition

**English Text:** Has a doctor or other health professional ever told {you/SP} that {you/s/he} . .  
.had any kind of liver condition?

**English Instructions:** CAPI INSTRUCTION: TEXT OF QUESTION SHOULD BE OPTIONAL AFTER FIRST ITEM IS READ. INTERVIEWER: INCLUDE VIRAL HEPATITIS (INCLUDING HEPATITIS A, HEPATITIS B; AND HEPATITIS C); AUTOIMMUNE LIVER DISEASE (INCLUDING PRIMARY BILIARY CIRRHOSIS; AUTOIMMUNE HEPATITIS, SCLEROSING CHOLANGITIS); GENETIC LIVER DISEASES (INCLUDING ALPHA-1-ANTITRYPSIN DEFICIENCY, HEMOCHROMATOSIS, AND WILSON'S DISEASE); DRUG-OR MEDICATION-INDUCED LIVER DISEASE; ALCOHOLIC LIVER DISEASE; NON-ALCOHOLIC FATTY LIVER DISEASE; FATTY LIVER DISEASE; LIVER CANCER; LIVER CYST; LIVER ABSCESS; LIVER FIBROSIS; AND LIVER CIRRHOSIS. INTERVIEWER DO NOT INCLUDE GALLBLADDER DISEASE; GALLSTONES; OR CHOLECYSTITIS.

**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	462	462	
2	No	8751	9213	
7	Refused	0	9213	
9	Don't know	19	9232	
.	Missing	5754	14986	

## MCQ170I - Do you still have a liver condition

**Variable Name:** MCQ170I**SAS Label:** Do you still have a liver condition**English Text:** {Do you/Does SP} still . . . have any kind of liver condition?**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	240	240	
2	No	171	411	
7	Refused	0	411	
9	Don't know	51	462	
.	Missing	14524	14986	

## MCD180I - Age when told you had a liver condition

**Variable Name:** MCD180I

**SAS Label:** Age when told you had a liver condition

**English Text:** How old {were you/was SP} when {you were/s/he was} first told {you/s/he} . .  
.had any kind of liver condition?

**English Instructions:** ENTER AGE IN YEARS.

**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
17 to 79	Range of Values	427	427	
16	16 years or younger	22	449	
80	80 years or older	5	454	
77777	Refused	0	454	MCQ510a
99999	Don't know	8	462	MCQ510a
.	Missing	14524	14986	

## MCQ500 - Ever told you had any liver condition

**Variable Name:** MCQ500**SAS Label:** Ever told you had any liver condition**English Text:** Has a doctor or other health professional ever told {you/SP} that {you/s/he} ever had any kind of liver condition?**English Instructions:** INTERVIEWER: INCLUDE VIRAL HEPATITIS (INCLUDING HEPATITIS A, HEPATITIS B; AND HEPATITIS C); AUTOIMMUNE LIVER DISEASE (INCLUDING PRIMARY BILIARY CIRRHOSIS; AUTOIMMUNE HEPATITIS, SCLEROSING CHOLANGITIS); GENETIC LIVER DISEASES (INCLUDING ALPHA-1-ANTITRYPSIN DEFICIENCY, HEMOCHROMOTOSIS, AND WILSON'S DISEASE); DRUG- OR MEDICATION-INDUCED LIVER DISEASE; ALCOHOLIC LIVER DISEASE; NON-ALCOHOLIC FATTY LIVER DISEASE; FATTY LIVER DISEASE; LIVER CANCER; LIVER CYST; LIVER ABSCESS; LIVER FIBROSIS; AND LIVER CIRRHOSIS. INTERVIEWER DO NOT INCLUDE GALLBLADDER DISEASE; GALLSTONES; OR CHOLECYSTITIS.**Target:** Both males and females 12 YEARS - 19 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	12	12	
2	No	1988	2000	MCQ515
7	Refused	0	2000	MCQ515
9	Don't know	1	2001	MCQ515
.	Missing	12985	14986	

## MCQ510a - Liver condition: Fatty liver

**Variable Name:** MCQ510a

**SAS Label:** Liver condition: Fatty liver

**English Text:** Which type of liver condition was it . . .

**English Instructions:** INTERVIEWER: READ OPTIONS. CODE ALL THAT APPLY.

**Target:** Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Fatty liver	204	204	
77	Refused	0	204	MCQ515
99	Don't know	32	236	MCQ515
.	Missing	14750	14986	

## MCQ510b - Liver condition: Liver fibrosis

**Variable Name:** MCQ510b

**SAS Label:** Liver condition: Liver fibrosis

**English Text:** Which type of liver condition was it . . .

**English Instructions:** INTERVIEWER: READ OPTIONS. CODE ALL THAT APPLY.

**Target:** Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
2	Liver fibrosis	10	10	
.	Missing	14976	14986	

## MCQ510c - Liver condition: Liver cirrhosis

**Variable Name:** MCQ510c

**SAS Label:** Liver condition: Liver cirrhosis

**English Text:** Which type of liver condition was it . . .

**English Instructions:** INTERVIEWER: READ OPTIONS. CODE ALL THAT APPLY.

**Target:** Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
3	Liver cirrhosis	34	34	
.	Missing	14952	14986	

## MCQ510d - Liver condition: Viral hepatitis

**Variable Name:** MCQ510d

**SAS Label:** Liver condition: Viral hepatitis

**English Text:** Which type of liver condition was it . . .

**English Instructions:** INTERVIEWER: READ OPTIONS. CODE ALL THAT APPLY.

**Target:** Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
4	Viral hepatitis	81	81	
.	Missing	14905	14986	



## MCQ510e - Liver condition: Autoimmune hepatitis

**Variable Name:** MCQ510e

**SAS Label:** Liver condition: Autoimmune hepatitis

**English Text:** Which type of liver condition was it . . .

**English Instructions:** INTERVIEWER: READ OPTIONS. CODE ALL THAT APPLY.

**Target:** Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
5	Autoimmune hepatitis	20	20	
.	Missing	14966	14986	

## MCQ510f - Liver condition: Other liver disease

**Variable Name:** MCQ510f

**SAS Label:** Liver condition: Other liver disease

**English Text:** Which type of liver condition was it . . .

**English Instructions:** INTERVIEWER: READ OPTIONS. CODE ALL THAT APPLY.

**Target:** Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
6	Other liver disease	118	118	
.	Missing	14868	14986	

## MCQ515 - CHECK ITEM

<b>Variable Name:</b>	MCQ515
<b>English Instructions:</b>	BOX 8C CHECK ITEM MCQ515: IF SP'S AGE 12-19, GO TO MCQ300B. OTHERWISE, IF SP'S AGE >= 20 GO TO MCQ520.
<b>Target:</b>	Both males and females 1 YEARS - 150 YEARS

## MCQ520 - Abdominal pain during past 12 months?

**Variable Name:** MCQ520

**SAS Label:** Abdominal pain during past 12 months?

**English Text:** During the past 12 months {have you/has s/he} had pain in the abdominal area shaded on the diagram?

**English Instructions:** INTERVIEWER INSTRUCTION: FOR FEMALES DO NOT INCLUDE MENSTRUAL PAIN. HAND CARD MCQ1

**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	2035	2035	
2	No	7187	9222	MCQ550
7	Refused	0	9222	MCQ550
9	Don't know	10	9232	MCQ550
.	Missing	5754	14986	

## MCQ530 - Where was the most uncomfortable pain

**Variable Name:** MCQ530**SAS Label:** Where was the most uncomfortable pain

**English Text:** Sometimes people have more than one type of pain. I am going to ask you a few questions about the pain that has been the most uncomfortable in the past 12 months. For the pain that was most uncomfortable please show me where the pain was located.

**English Instructions:** INTERVIEWER INSTRUCTION: FOR FEMALES DO NOT INCLUDE MENSTRUAL PAIN. HAND CARD MCQ2

**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Right upper abdomen	468	468	
2	Mid upper abdomen	1108	1576	
3	Left upper abdomen	451	2027	
7	Refused	0	2027	
9	Don't know	8	2035	
.	Missing	12951	14986	

## MCQ540 - Ever seen a DR about this pain

**Variable Name:** MCQ540**SAS Label:** Ever seen a DR about this pain**English Text:** {Have you/has s/he} ever seen a doctor about this pain?**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	1342	1342	
2	No	691	2033	
7	Refused	0	2033	
9	Don't know	2	2035	
.	Missing	12951	14986	

## MCQ550 - Has DR ever said you have gallstones

**Variable Name:** MCQ550**SAS Label:** Has DR ever said you have gallstones**English Text:** Has a doctor or other health professional ever told {you/SP} that {you/s/he} had gallstones?**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	994	994	
2	No	8216	9210	
7	Refused	0	9210	
9	Don't know	22	9232	
.	Missing	5754	14986	

## MCQ560 - Ever had gallbladder surgery?

**Variable Name:** MCQ560**SAS Label:** Ever had gallbladder surgery?**English Text:** Have {you/s/he} ever had gallbladder surgery?**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	1025	1025	
2	No	8203	9228	
7	Refused	0	9228	
9	Don't know	4	9232	
.	Missing	5754	14986	



## MCQ570 - Age when 1st had gallbladder surgery?

**Variable Name:** MCQ570

**SAS Label:** Age when 1st had gallbladder surgery?

**English Text:** How old {were you/was SP} when {you /s/he} first had gallbladder surgery?

**English Instructions:** INTERVIEWER INSTRUCTION: IF LESS THAN 1 YEAR, ENTER 1. ENTER AGE IN YEARS CAPI INSTRUCTION: HARD EDIT: 1-120

**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
2 to 79	Range of Values	990	990	
80	80 years or older	15	1005	
77777	Refused	0	1005	
99999	Don't know	20	1025	
.	Missing	13961	14986	

## MCQ220 - Ever told you had cancer or malignancy

**Variable Name:** MCQ220**SAS Label:** Ever told you had cancer or malignancy**English Text:** {Have you/Has SP} ever been told by a doctor or other health professional that {you/s/he} had cancer or a malignancy (ma-lig-nan-see) of any kind?**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	1006	1006	
2	No	8222	9228	MCQ300b
7	Refused	0	9228	MCQ300b
9	Don't know	4	9232	MCQ300b
.	Missing	5754	14986	

## MCQ230a - 1st cancer - what kind was it?

<b>Variable Name:</b>	MCQ230a
<b>SAS Label:</b>	1st cancer - what kind was it?
<b>English Text:</b>	1st cancer - what kind was it?
<b>Target:</b>	Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
10	Bladder	21	21	
11	Blood	2	23	
12	Bone	6	29	
13	Brain	5	34	
14	Breast	147	181	
15	Cervix (cervical)	48	229	
16	Colon	67	296	
17	Esophagus (esophageal)	8	304	
18	Gallbladder	1	305	
19	Kidney	26	331	
20	Larynx/ windpipe	2	333	
21	Leukemia	12	345	
22	Liver	3	348	
23	Lung	29	377	
24	Lymphoma/ Hodgkin's disease	21	398	
25	Melanoma	73	471	
26	Mouth/tongue/lip	5	476	
27	Nervous system	0	476	
28	Ovary (ovarian)	17	493	
29	Pancreas (pancreatic)	5	498	
30	Prostate	150	648	
31	Rectum (rectal)	5	653	
32	Skin (non-melanoma)	115	768	
33	Skin (don't know what kind)	72	840	
34	Soft tissue (muscle or fat)	1	841	
35	Stomach	7	848	
36	Testis (testicular)	5	853	
37	Thyroid	28	881	
38	Uterus (uterine)	38	919	
39	Other	65	984	
66	More than 3 kinds	0	984	
77	Refused	1	985	
99	Don't know	21	1006	
.	Missing	13980	14986	

## MCQ230b - 2nd cancer - what kind was it?

<b>Variable Name:</b>	MCQ230b
<b>SAS Label:</b>	2nd cancer - what kind was it?
<b>English Text:</b>	2nd cancer - what kind was it?
<b>Target:</b>	Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
10	Bladder	4	4	
11	Blood	1	5	
12	Bone	3	8	
13	Brain	2	10	
14	Breast	11	21	
15	Cervix (cervical)	1	22	
16	Colon	7	29	
17	Esophagus (esophageal)	2	31	
18	Gallbladder	0	31	
19	Kidney	2	33	
20	Larynx/ windpipe	1	34	
21	Leukemia	1	35	
22	Liver	2	37	
23	Lung	2	39	
24	Lymphoma/ Hodgkins disease	4	43	
25	Melanoma	6	49	
26	Mouth/tongue/lip	1	50	
27	Nervous system	0	50	
28	Ovary (ovarian)	4	54	
29	Pancreas (pancreatic)	0	54	
30	Prostate	10	64	
31	Rectum (rectal)	5	69	
32	Skin (non-melanoma)	13	82	
33	Skin (don't know what kind)	12	94	
34	Soft tissue (muscle or fat)	0	94	
35	Stomach	0	94	
36	Testis (testicular)	0	94	
37	Thyroid	6	100	
38	Uterus (uterine)	4	104	
39	Other	11	115	
66	More than 3 kinds	0	115	
77	Refused	0	115	
99	Don't know	0	115	
.	Missing	14871	14986	

## MCQ230c - 3rd cancer - what kind was it?

<b>Variable Name:</b>	MCQ230c
<b>SAS Label:</b>	3rd cancer - what kind was it?
<b>English Text:</b>	3rd cancer - what kind was it?
<b>Target:</b>	Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
10	Bladder	0	0	
11	Blood	0	0	
12	Bone	0	0	
13	Brain	0	0	
14	Breast	0	0	
15	Cervix (cervical)	1	1	
16	Colon	0	1	
17	Esophagus (esophageal)	0	1	
18	Gallbladder	0	1	
19	Kidney	0	1	
20	Larynx/ windpipe	1	2	
21	Leukemia	2	4	
22	Liver	0	4	
23	Lung	4	8	
24	Lymphoma/ Hodgkins disease	0	8	
25	Melanoma	0	8	
26	Mouth/tongue/lip	0	8	
27	Nervous system	0	8	
28	Ovary (ovarian)	1	9	
29	Pancreas (pancreatic)	0	9	
30	Prostate	1	10	
31	Rectum (rectal)	0	10	
32	Skin (non-melanoma)	3	13	
33	Skin (don't know what kind)	2	15	
34	Soft tissue (muscle or fat)	0	15	
35	Stomach	0	15	
36	Testis (testicular)	0	15	
37	Thyroid	0	15	
38	Uterus (uterine)	2	17	
39	Other	3	20	
66	More than 3 kinds	0	20	
77	Refused	0	20	
99	Don't know	0	20	
.	Missing	14966	14986	



## MCQ230d - More than 3 kinds of cancer

**Variable Name:** MCQ230d  
**SAS Label:** More than 3 kinds of cancer  
**English Text:** More than 3 kinds of cancer.  
**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
66	More than 3 kinds	4	4	
77	Refused	0	4	
99	Don't know	0	4	
.	Missing	14982	14986	

## MCQ300b - Close relative had asthma?

**Variable Name:** MCQ300b**SAS Label:** Close relative had asthma?**English Text:** Including living and deceased, were any of {SP's/your} close biological that is, blood relatives including father, mother, sisters or brothers, ever told by a health professional that they had asthma (az-ma)?**English Instructions:** CAPI INSTRUCTION: TEXT OF QUESTION SHOULD BE OPTIONAL SHOULD BE OPTIONAL, ' [ ] ' S, AFTER FIRST TIME. CAPI INSTRUCTION: IF SP AGE 6-19, DISPLAY: Including living and deceased, were any of {SP's/your} close biological that is, blood relatives including father, mother, sisters or brothers, ever told by a health professional that they had . . .**Target:** Both males and females 6 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	3619	3619	
2	No	9354	12973	
7	Refused	0	12973	
9	Don't know	244	13217	
.	Missing	1769	14986	

## MCQ300c - Close relative had diabetes?

**Variable Name:** MCQ300c

**SAS Label:** Close relative had diabetes?

**English Text:** Including living and deceased, were any of {SP's/your} close biological that is, blood relatives including father, mother, sisters or brothers, ever told by a health professional that they had diabetes?

**English Instructions:** CAPI INSTRUCTION: TEXT QUESTION SHOULD BE OPTIONAL, ' [ ] 'S, AFTER FIRST TIME.

**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	4367	4367	
2	No	4732	9099	
7	Refused	2	9101	
9	Don't know	131	9232	
.	Missing	5754	14986	

## MCQ300a - Close relative had heart attack?

**Variable Name:** MCQ300a**SAS Label:** Close relative had heart attack?**English Text:** Including living and deceased, were any of {SP's/your} close biological that is, blood relatives including father, mother, sisters or brothers, ever told by a health professional that they had a heart attack or angina (an-gi-na) before the age of 50?**English Instructions:** CAPI INSTRUCTION: TEXT OF QUESTION SHOULD BE OPTIONAL, ' [ ] 'S, AFTER FIRST TIME.**Target:** Both males and females 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	1186	1186	
2	No	7829	9015	
7	Refused	1	9016	
9	Don't know	216	9232	
.	Missing	5754	14986	

## MCQ366a - Doctor told you to control/lose weight

**Variable Name:** MCQ366a**SAS Label:** Doctor told you to control/lose weight**English Text:** During the past 12 months {have you/has s/he} ever been told by a doctor or health professional to: control {your/his/her} weight or lose weight?**Target:** Both males and females 16 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	2771	2771	
2	No	7419	10190	
7	Refused	1	10191	
9	Don't know	4	10195	
.	Missing	4791	14986	

## MCQ366b - Doctor told you to exercise

**Variable Name:** MCQ366b**SAS Label:** Doctor told you to exercise**English Text:** During the past 12 months {have you/has s/he} ever been told by a doctor or health professional to:increase {your/his/her} physical activity or exercise?**Target:** Both males and females 16 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	4141	4141	
2	No	6050	10191	
7	Refused	0	10191	
9	Don't know	4	10195	
.	Missing	4791	14986	

## MCQ366c - Doctor told you to reduce salt in diet

**Variable Name:** MCQ366c**SAS Label:** Doctor told you to reduce salt in diet**English Text:** During the past 12 months {have you/has s/he} ever been told by a doctor or health professional to:watch or reduce the amount of sodium or salt in {your/his/her} diet?**Target:** Both males and females 16 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	2902	2902	
2	No	7283	10185	
7	Refused	0	10185	
9	Don't know	10	10195	
.	Missing	4791	14986	

## MCQ366d - Doctor told you to reduce fat/calories

**Variable Name:** MCQ366d**SAS Label:** Doctor told you to reduce fat/calories**English Text:** During the past 12 months {have you/has s/he} ever been told by a doctor or health professional to: watch or reduce the amount of fat or calories in {your/his/her} diet?**Target:** Both males and females 16 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	3114	3114	
2	No	7070	10184	
7	Refused	0	10184	
9	Don't know	11	10195	
.	Missing	4791	14986	



## MCQ371a - Are you now controlling or losing weight

**Variable Name:** MCQ371a**SAS Label:** Are you now controlling or losing weight**English Text:** {Are you/Is s/he} now doing any of the following:controlling {your/his/her} weight or losing weight?**Target:** Both males and females 16 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	6363	6363	
2	No	3822	10185	
7	Refused	0	10185	
9	Don't know	10	10195	
.	Missing	4791	14986	

## MCQ371b - Are you now increasing exercise

**Variable Name:** MCQ371b**SAS Label:** Are you now increasing exercise**English Text:** {Are you/Is s/he} now doing any of the following: increasing {your/his/her} physical activity or exercise?**Target:** Both males and females 16 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	6039	6039	
2	No	4152	10191	
7	Refused	0	10191	
9	Don't know	4	10195	
.	Missing	4791	14986	

## MCQ371c - Are you now reducing salt in diet

**Variable Name:** MCQ371c**SAS Label:** Are you now reducing salt in diet**English Text:** {Are you/Is s/he} now doing any of the following: watching or reducing the amount of sodium or salt in {your/his/her} diet?**Target:** Both males and females 16 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	5562	5562	
2	No	4626	10188	
7	Refused	0	10188	
9	Don't know	7	10195	
.	Missing	4791	14986	

## MCQ371d - Are you now reducing fat in diet

**Variable Name:** MCQ371d**SAS Label:** Are you now reducing fat in diet**English Text:** {Are you/Is s/he} now doing any of the following: watching or reducing the amount of fat or calories in {your/his/her} diet?**Target:** Both males and females 16 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	5864	5864	
2	No	4320	10184	
7	Refused	1	10185	
9	Don't know	10	10195	
.	Missing	4791	14986	

## OSQ230 - Any metal objects inside your body?

**Variable Name:** OSQ230**SAS Label:** Any metal objects inside your body?

**English Text:** The following question is about metal objects you may have inside your body. Do you have any artificial joints, pins, plates, metal suture material, or other types of metal objects in your body? Some common examples are on the hand card.

**English Instructions:** INTERVIEWER INSTRUCTION: Do not include piercings, crowns, dental braces or retainers, shrapnel, or bullets. The metal object should NOT be visible on the outside of the body or in the mouth. HAND CARD OSQ3

**Target:** Both males and females 40 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	1859	1859	
2	No	4528	6387	
7	Refused	0	6387	
9	Don't know	46	6433	
.	Missing	8553	14986	