National Health and Nutrition Examination Survey

2017-March 2020 Data Documentation, Codebook, and Frequencies

Cardiovascular Health (P_CDQ)

Data File: P_CDQ.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 Cardiovascular Disease and Health section (variable name prefix CDQ) provides participant-level interview data on evaluating cardiovascular health and includes questions to assess the presence of angina pectoris as defined by the Rose questionnaire.

Eligible Sample

All participants, 40 years 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 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.

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.

Rose questionnaire criteria (Rose, 1968):

Grade 1 Angina is defined as CDQ001 = 1 and CDQ002 = 1 (but CDQ003 ≠ 1) and CDQ004 = 1 and CDQ005 = 1 and CDQ006 = 1, plus either (CDQ009D = 4 or CDQ009E = 5) or (CDQ009F = 6 and CDQ009G = 7).

Grade 2 Angina is defined as CDQ001 = 1 and CDQ002 = 1 and CDQ003 = 1 and CDQ004 = 1 and CDQ005 = 1 and CDQ006 = 1, plus either (CDQ009D = 4 or CDQ009E = 5) or (CDQ009F = 6 and CDQ009G = 7).

Please refer to the NHANES Analytic Guidelines and the on-line NHANES Tutorial for further details on the use of sample weights and other analytic issues.

References

- Rose GA, Blackburn H. Cardiovascular survey methods. World Health Organization Monograph 1968; 56: 1-188.

Codebook and Frequencies

SEQN - Respondent sequence number

Variable Name:	SEQN
SAS Label:	Respondent sequence number
English Text:	Respondent sequence number.
Target:	Both males and females 40 YEARS - 150 YEARS

CDQ001 - SP ever had pain or discomfort in chest

Variable Name: CDQ001

SAS Label: SP ever had pain or discomfort in chest

English Text: {Have you/Has SP} ever had any pain or discomfort in {your/her/his} chest?

Target: Both males and females 40 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	1896	1896	
2	No	4533	6429	CDQ010
7	Refused	0	6429	CDQ010
9	Don't know	4	6433	CDQ010
.	Missing	0	6433	

CDQ002 - SP get it walking uphill or in a hurry

Variable Name: CDQ002

SAS Label: SP get it walking uphill or in a hurry

English Text: {Do you/Does she/Does he} get it when {you/she/he} walk uphill or hurry?

Target: Both males and females 40 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	558	558	
2	No	1250	1808	CDQ008
3	Never walks uphill or hurries	74	1882	
7	Refused	0	1882	CDQ008
9	Don't know	14	1896	CDQ008
.	Missing	4537	6433	

CDQ003 - During an ordinary pace on level ground

Variable Name: CDQ003

SAS Label: During an ordinary pace on level ground

English Text: {Do you/Does she/Does he} get it when {you/she/he} walk at an ordinary pace on level ground?

Target: Both males and females 40 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	240	240	
2	No	391	631	
7	Refused	0	631	
9	Don't know	1	632	
.	Missing	5801	6433	

CDQ003A - CHECK ITEM

Variable Name:	CDQ003A
English Instructions:	BOX 1. CHECK ITEM CDQ.003A. IF 'YES' (CODE '1') IN CDQ.002 OR CDQ.003, CONTINUE. OTHERWISE, GO TO CDQ.008.
Target:	Both males and females 40 YEARS - 150 YEARS

CDQ004 - If so does SP continue or slow down

Variable Name: CDQ004

SAS Label: If so does SP continue or slow down

English Text: What {do you/does she/does he} do if {you/she/he} get it while {you/she/he} are walking? {Do you/Does she/Does he} stop or slow down or continue at the same pace?

English Instructions: CHECK "STOP OR SLOW DOWN" IF SP CARRIES ON AFTER TAKING NITROGLYCERINE.

Target: Both males and females 40 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Stop or slow down	526	526	
2	Continue at the same pace	53	579	CDQ008
7	Refused	0	579	CDQ008
9	Don't know	0	579	CDQ008
.	Missing	5854	6433	

CDQ005 - Does standing relieve pain/discomfort

Variable Name: CDQ005

SAS Label: Does standing relieve pain/discomfort

English Text: If {you/she/he} stand still, what happens to it? Is the pain or discomfort relieved or not relieved?

Target: Both males and females 40 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Relieved	447	447	
2	Not relieved	73	520	CDQ008
7	Refused	0	520	CDQ008
9	Don't know	6	526	CDQ008
.	Missing	5907	6433	

CDQ006 - How soon is the pain relieved

Variable Name: CDQ006

SAS Label: How soon is the pain relieved

English Text: How soon is the pain relieved? Would you say...

Target: Both males and females 40 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	10 minutes or less	368	368	
2	More than 10 minutes	75	443	CDQ008
7	Refused	0	443	CDQ008
9	Don't know	4	447	CDQ008
.	Missing	5986	6433	

CDQ009A - Pain in right arm

Variable Name:	CDQ009A
SAS Label:	Pain in right arm
English Text:	Please look at this card and show me where the pain or discomfort is located.
English Instructions:	CODE ALL THAT APPLY. PROBE FOR ADDITIONAL AREAS. HAND CARD CDQ1.
Target:	Both males and females 40 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Pain in right arm	23	23	
77	Refused	0	23	
99	Don't know	1	24	
.	Missing	6409	6433	

CDQ009B - Pain in right chest

Variable Name: CDQ009B

SAS Label: Pain in right chest

English Text: Please look at this card and show me where the pain or discomfort is located.

Target: Both males and females 40 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
2	Pain in right chest	71	71	
.	Missing	6362	6433	

CDQ009C - Pain in neck

Variable Name: CDQ009C

SAS Label: Pain in neck

English Text: Please look at this card and show me where the pain or discomfort is located.

Target: Both males and females 40 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
3	Pain in neck	21	21	
.	Missing	6412	6433	

CDQ009D - Pain in upper sternum

Variable Name:	CDQ009D
SAS Label:	Pain in upper sternum
English Text:	Please look at this card and show me where the pain or discomfort is located.
Target:	Both males and females 40 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
4	Pain in upper sternum	213	213	
.	Missing	6220	6433	

CDQ009E - Pain in lower sternum

Variable Name: CDQ009E

SAS Label: Pain in lower sternum

English Text: Please look at this card and show me where the pain or discomfort is located.

Target: Both males and females 40 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
5	Pain in lower sternum	97	97	
.	Missing	6336	6433	

CDQ009F - Pain in left chest

Variable Name: CDQ009F

SAS Label: Pain in left chest

English Text: Please look at this card and show me where the pain or discomfort is located.

Target: Both males and females 40 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
6	Pain in left chest	149	149	
.	Missing	6284	6433	

CDQ009G - Pain in left arm

Variable Name: CDQ009G

SAS Label: Pain in left arm

English Text: Please look at this card and show me where the pain or discomfort is located.

Target: Both males and females 40 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
7	Pain in left arm	22	22	
.	Missing	6411	6433	

CDQ009H - Pain in epigastric area

Variable Name: CDQ009H

SAS Label: Pain in epigastric area

English Text: Please look at this card and show me where the pain or discomfort is located.

Target: Both males and females 40 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
8	Pain in epigastric area	12	12	
.	Missing	6421	6433	

CDQ008 - Severe pain in chest more than half hour

Variable Name: CDQ008

SAS Label: Severe pain in chest more than half hour

English Text: Have {you/she/he} ever had a severe pain across the front of {your/her/his} chest lasting for half an hour or more?

Target: Both males and females 40 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	448	448	
2	No	1440	1888	
7	Refused	0	1888	
9	Don't know	8	1896	
.	Missing	4537	6433	

CDQ010 - Shortness of breath on stairs/inclines

Variable Name: CDQ010

SAS Label: Shortness of breath on stairs/inclines

English Text: {Have you/Has SP} had shortness of breath either when hurrying on the level or walking up a slight hill?

Target: Both males and females 40 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	2471	2471	
2	No	3940	6411	
7	Refused	0	6411	
9	Don't know	22	6433	
.	Missing	0	6433	