National Health and Nutrition Examination Survey

2017-March 2020 Data Documentation, Codebook, and Frequencies

Reproductive Health (P_RHQ)

Data File: P_RHQ.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 reproductive health section (variable name prefix RHQ) contains questions for females only. Questions on reproductive health include menstrual history, pregnancy history, hormone replacement therapy use, and other related reproductive conditions. A question used to calculate estimated time in months at menarche for youth 12-19 was added in 2017-2018.

Eligible Sample

Female participants aged 12 years and older in the NHANES 2017-March 2020 pre-pandemic sample were eligible. Select variables related to pregnancy and hysterectomy have been excluded from this public use data file for those aged 12-19 years and over 44 years due to disclosure risks.

Interview Setting and Mode of Administration

These questions were asked at the mobile examination center (MEC), by trained interviewers, using the Computer-Assisted Personal Interview (CAPI) system as part of the MEC interview. Both proxy interviewers and interpreters were permitted for these questions.

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.

Data Processing and Editing

Edits were made to ensure the completeness, consistency, and analytic usefulness of the data.

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 from 18 locations 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 examination 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.

This data file contains complete records for variables related to pregnancy only for females aged 20-44 years. The complete data file containing all variables for females 12 years and older (P_RHQ _R) is available through the NCHS Research Data Center.

In this combined special data file, only variables contained in both cycles 2017-2018 and 2019-March 2020 were included. Question inclusion, wording, target ages and skip patterns have changed periodically since RHQ 1999-2000. It is recommended that analysts review questions, documentation, and codebooks, as well as unweighted counts, prior to analysis.

In addition, survey design changes have occurred over the cycles. In 2007, pregnant women and persons 12-19 years were no longer oversampled. Additionally, for each of the race/ethnicity domains, the former age domains 12-15 and 16-19 were combined and the age minority domain 40-59 was split into two 10-year age sampling domains: 40-49 and 50-59 years. These changes resulted in an increase in the actual number of participants aged 40-59 years and a decrease in participants aged 12-19 years, as compared to previous cycles. Therefore, unweighted frequencies of certain reproductive conditions may differ slightly in this survey cycle compared to survey cycles prior to 2007.

RHD018: estimated age in months at time of menarche was calculated from date of birth (month and year) and reported age and month at first menarche. For those who reported month of menarche in their birth month, it was not possible to discern which year of age menarche occurred. Therefore, these records were coded as "missing" responses.

RHD143: Current pregnancy status from question: "are you pregnant now?" Note that the response found here may be differ from that found in the pregnancy status variable, RIDEXPRG, in the NHANES DEMO data file.

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.

Codebook and Frequencies

SEQN - Respondent sequence number

Variable Name:	SEQN
SAS Label:	Respondent sequence number
English Text:	Respondent sequence number.
Target:	Females only 12 YEARS - 150 YEARS

RHQ010 - Age when first menstrual period occurred

Variable Name: RHQ010

SAS Label: Age when first menstrual period occurred

English Text: The next series of questions are about {your/SP's} reproductive history. I will begin by asking about {your/SP's} periods or menstrual cycles. How old {were you/was SP} when {you/SP} had {your/her} first menstrual period?

English Instructions: CODE "0" IF HAVEN'T STARTED YET. CAPI INSTRUCTION: SOFT EDIT VALUES: 8-25 YEARS. HARD EDIT VALUES: AGE OF 1ST PERIOD CANNOT BE GREATER THAN CURRENT AGE. ENTER AGE IN YEARS.

Target: Females only 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
6 to 19	Range of Values	4808	4808	
0	Hasn't started yet	62	4870	End of Section
20	20 years or older	8	4878	
777	Refused	4	4882	RHQ020
999	Don't know	50	4932	RHQ020
.	Missing	382	5314	

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 {you/SP} have {your/her} first menstrual period?

Target: Females only 12 YEARS - 19 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
103 to 191	Range of Values	685	685	
7777	Refused	0	685	
9999	Don't know	47	732	
.	Missing	4582	5314	

RHQ020 - Age range at first menstrual period

Variable Name: RHQ020

SAS Label: Age range at first menstrual period

English Text: {Were you/Was SP}...

Target: Females only 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Younger than 10	1	1	
2	10 to 12	12	13	
3	13 to 15	17	30	
4	16 or older	10	40	
7	Refused	1	41	
9	Don't know	9	50	
.	Missing	5264	5314	

RHQ031 - Had regular periods in past 12 months

Variable Name: RHQ031

SAS Label: Had regular periods in past 12 months

English Text: {Have you/Has SP} had at least one menstrual period in the past 12 months? (Please do not include bleedings caused by medical conditions, hormone therapy, or surgeries.)

Target: Females only 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	2567	2567	
2	No	2296	4863	RHD043
7	Refused	5	4868	RHQ060
9	Don't know	2	4870	RHQ060
.	Missing	444	5314	

RHD043 - Reason not having regular periods

Variable Name: RHD043

SAS Label: Reason not having regular periods

English Text: What is the reason that {you have/SP has} not had a period in the past 12 months?

Target: Females only 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Pregnancy	17	17	
2	Breast feeding	5	22	
3	Hysterectomy	779	801	
7	Menopause/Change of life	1303	2104	
9	Other	163	2267	
77	Refused	0	2267	
99	Don't know	8	2275	
.	Missing	3039	5314	

RHQ060 - Age at last menstrual period

Variable Name: RHQ060

SAS Label: Age at last menstrual period

English Text: About how old {were you/was SP} when {you/SP} had {your/her} last menstrual period?

English Instructions: ENTER AGE IN YEARS.

Target: Females only 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
20 to 59	Range of Values	2143	2143	
19	19 years or under	37	2180	
60	60 years or older	20	2200	
777	Refused	6	2206	
999	Don't know	94	2300	
.	Missing	3014	5314	

RHQ070 - Age range at last menstrual period

Variable Name: RHQ070

SAS Label: Age range at last menstrual period

English Text: {Were you/Was SP}...

Target: Females only 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Younger than 30	4	4	
2	30 to 34	4	8	
3	35 to 39	4	12	
4	40 to 44	13	25	
5	45 to 49	21	46	
6	50 to 54	15	61	
7	55 or older	9	70	
77	Refused	0	70	
99	Don't know	24	94	
.	Missing	5220	5314	

RHQ074 - Tried for a year to become pregnant?

Variable Name: RHQ074

SAS Label: Tried for a year to become pregnant?

English Text: The next questions are about {your/SP's} pregnancy history. {Have you/Has SP} ever attempted to become pregnant over a period of at least a year without becoming pregnant?

Target: Females only 18 YEARS - 59 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	303	303	
2	No	2528	2831	
7	Refused	3	2834	
9	Don't know	2	2836	
.	Missing	2478	5314	

RHQ076 - Seen a DR b/c unable to become pregnant?

Variable Name: RHQ076

SAS Label: Seen a DR b/c unable to become pregnant?

English Text: {Have you/Has SP} ever been to a doctor or other medical provider because {you have/she has} been unable to become pregnant?

Target: Females only 18 YEARS - 59 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	207	207	
2	No	2626	2833	
7	Refused	2	2835	
9	Don't know	1	2836	
.	Missing	2478	5314	

RHQ078 - Ever treated for a pelvic infection/PID?

Variable Name: RHQ078

SAS Label: Ever treated for a pelvic infection/PID?

English Text: {Have you/Has SP} ever been treated for an infection in {your/her} fallopian tubes, uterus or ovaries, also called a pelvic infection, pelvic inflammatory disease, or PID?

Target: Females only 18 YEARS - 59 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	178	178	
2	No	2635	2813	
7	Refused	2	2815	
9	Don't know	21	2836	
.	Missing	2478	5314	

RHQ131 - Ever been pregnant?

Variable Name: RHQ131

SAS Label: Ever been pregnant?

English Text: The next questions are about {your/SP's} pregnancy history. {Have you/Has SP ever been pregnant? Please include (current pregnancy,) live births, miscarriages, stillbirths, tubal pregnancies and abortions.

English Instructions: MARK IF KNOWN. OTHERWISE ASK.

Target: Females only 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	3412	3412	
2	No	640	4052	RHD280
7	Refused	4	4056	RHD280
9	Don't know	1	4057	RHD280
.	Missing	1257	5314	

RHD143 - Are you pregnant now?

Variable Name:	RHD143
SAS Label:	Are you pregnant now?
English Text:	{Are you/Is SP} pregnant now?
English Instructions:	MARK IF KNOWN. OTHERWISE ASK.
Target:	Females only 20 YEARS - 44 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	67	67	
2	No	1009	1076	
7	Refused	0	1076	
9	Don't know	16	1092	
.	Missing	4222	5314	

RHQ160 - How many times have been pregnant?

Variable Name:	RHQ160
SAS Label:	How many times have been pregnant?
English Text:	How many times {have you/has SP} been pregnant? ({Again, be/Be} sure to count all {your/her} pregnancies including (current pregnancy,) live births, miscarriages, stillbirths, tubal pregnancies or abortions.)
English Instructions:	ENTER NUMBER OF PREGNANCIES.
Target:	Females only 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1 to 10	Range of Values	3379	3379	
11	11 or more	30	3409	
77	Refused	3	3412	
99	Don't know	0	3412	
.	Missing	1902	5314	

RHQ162 - During pregnancy, told you have diabetes

Variable Name:	RHQ162
SAS Label:	During pregnancy, told you have diabetes
English Text:	During {any/your/SP's} pregnancy, {were you/was SP} ever told by a doctor or other health professional that {you/she} had diabetes, sugar diabetes or gestational diabetes? Please do not include diabetes that {you/SP} may have known about before the pregnancy.
English Instructions:	CAPI INSTRUCTION: IF RHQ160 = 1, DISPLAY {your/SP's}. OTHERWISE, DISPLAY {any}.
Target:	Females only 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	293	293	
2	No	3098	3391	
3	Borderline	17	3408	
7	Refused	1	3409	
9	Don't know	1	3410	
.	Missing	1904	5314	

RHD167 - Total number of deliveries

Variable Name:	RHD167
SAS Label:	Total number of deliveries
English Text:	How many deliveries {have you/has SP} had? (Please count all vaginal and Cesarean deliveries and count stillbirths as well as live births.)
English Instructions:	COUNT THE NUMBER OF DELIVERIES, NOT THE NUMBER OF LIVE-BORN CHILDREN. FOR EXAMPLE, IF SP DELIVERED TWINS OR HAD ANY OTHER MULTIPLE BIRTH, COUNT AS A SINGLE DELIVERY. SOFT EDIT: RHD167 MUST BE EQUAL TO OR LESS THAN RHQ160. ERROR MESSAGE: "It is unlikely that the number of deliveries (vaginal and cesarean deliveries combined) is greater than the number of pregnancies. Please verify." SOFT EDIT: IF CURRENTLY PREGNANT (CODED '1' IN RHQ.143) THEN RHD167 SHOULD BE LESS THAN OR EQUAL TO RHQ160 MINUS 1. ERROR MESSAGE: "Since SP is currently pregnant, it is unlikely that the number of vaginal and cesarean deliveries is equal to or greater than the number of pregnancies. Please verify." ENTER NUMBER
Target:	Females only 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
0 to 4	Range of Values	3067	3067	
5	5 or more deliveries	338	3405	
77	Refused	2	3407	
99	Don't know	1	3408	
.	Missing	1906	5314	

RHQ171 - How many deliveries live birth result?

Variable Name:	RHQ171
SAS Label:	How many deliveries live birth result?
English Text:	How many of {your/her} deliveries resulted {Did {your/her} delivery result} in a live birth?
English Instructions:	CAPI INSTRUCTION: IF SP HAD ONE DELIVERY (SUM OF RHQ166 AND RHQ169 = 1), REPLACE {How many of {your/her} deliveries resulted} WITH {Did {your/her} delivery result}. COUNT THE NUMBER OF TOTAL DELIVERIES, NOT NUMBER OF LIVE-BORN CHILDREN. FOR EXAMPLE, IF SP HAD TWINS OR OTHER MULTIPLE BIRTH, COUNT AS SINGLE DELIVERY. ENTER NUMBER OF DELIVERIES.
Target:	Females only 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
0 to 4	Range of Values	2933	2933	
5	5 or more live births	293	3226	
77	Refused	2	3228	
99	Don't know	0	3228	
.	Missing	2086	5314	

RHQ172 - Any babies weigh 9 lbs or more?

Variable Name:	RHQ172
SAS Label:	Any babies weigh 9 lbs or more?
English Text:	{Did {your/SP's} delivery/Did any of {your/SP's} deliveries} result in a baby that weighed 9 pounds (4082 g) or more at birth? (Please count stillbirths as well as live births.)
English Instructions:	CAPI INSTRUCTION: IF SP HAD ONE DELIVERY (SUM OF RHQ166 AND RHQ169 = 1), DISPLAY {YOUR DELIVERY}. IF SP HAD MORE THAN ONE DELIVERY (SUM OF RHQ166 AND RHQ169 > 1), DISPLAY {ANY OF YOUR DELIVERIES}.
Target:	Females only 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	581	581	
2	No	2630	3211	
7	Refused	1	3212	
9	Don't know	16	3228	
.	Missing	2086	5314	

RHD180 - Age at first live birth

Variable Name: RHD180

SAS Label: Age at first live birth

English Text: How old {were you/was SP} at the time of {your/her} first live birth?

English Instructions: ENTER AGE IN YEARS.

Target: Females only 20 YEARS - 59 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
18 to 43	Range of Values	1647	1647	
17	17 years or younger	298	1945	
45	45 years or older	0	1945	
777	Refused	1	1946	
999	Don't know	2	1948	
.	Missing	3366	5314	

RHD190 - Age at last live birth

Variable Name: RHD190

SAS Label: Age at last live birth

English Text: How old were you at the time of your last live birth?

English Instructions: AGE IN YEARS. Derived from RHQ184 - The month and year of {your/her} last delivery, including stillbirths and live births.

Target: Females only 20 YEARS - 59 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
18 to 44	Range of Values	1933	1933	
17	17 years or younger	38	1971	
45	45 years or older	1	1972	
777	Refused	0	1972	
999	Don't know	2	1974	
.	Missing	3340	5314	

RHQ197 - How many months ago have baby?

Variable Name: RHQ197

SAS Label: How many months ago have baby?

English Text: How many months ago did {you/SP} have {your/her} baby?

English Instructions: ENTER NUMBER OF MONTHS

Target: Females only 20 YEARS - 44 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
2 to 24	Range of Values	220	220	
1	1 month or less	17	237	
777	Refused	0	237	
999	Don't know	0	237	
.	Missing	5077	5314	

RHQ200 - Now breastfeeding a child?

Variable Name:	RHQ200	
SAS Label:	Now breastfeeding a child?	
English Text:	{Are you/Is SP} now breast feeding a child?	
Target:	Females only 20 YEARS - 44 YEARS	

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	58	58	
2	No	177	235	
7	Refused	0	235	
9	Don't know	0	235	
.	Missing	5079	5314	

RHD280 - Had a hysterectomy?

Variable Name:	RHD280
SAS Label:	Had a hysterectomy?
English Text:	{Have you/Has SP} had a hysterectomy that is, surgery to remove {your/her} uterus or womb?
English Instructions:	MARK IF KNOWN. OTHERWISE ASK.
Target:	Females only 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	901	901	
2	No	3129	4030	RHQ305
7	Refused	0	4030	RHQ305
9	Don't know	7	4037	RHQ305
.	Missing	1277	5314	

RHQ305 - Had both ovaries removed?

Variable Name: RHQ305

SAS Label: Had both ovaries removed?

English Text: {Have you/Has SP} had both of {your/her} ovaries removed (either when {you/ she} had {your/her} uterus removed or at another time)?

Target: Females only 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	471	471	
2	No	3514	3985	RHQ540
7	Refused	0	3985	RHQ540
9	Don't know	51	4036	RHQ540
.	Missing	1278	5314	

RHQ332 - Age when both ovaries removed

Variable Name: RHQ332

SAS Label: Age when both ovaries removed

English Text: How old {were you/was SP} when {you/she} had {your/her} ovaries removed or last ovary removed if removed at different times?

English Instructions: ENTER AGE IN YEARS

Target: Females only 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
22 to 59	Range of Values	426	426	
19	19 years or under	2	428	
60	60 years or older	36	464	
777	Refused	0	464	
999	Don't know	7	471	
.	Missing	4843	5314	

RHQ540 - Ever use female hormones?

Variable Name: RHQ540

SAS Label: Ever use female hormones?

English Text: {Have you/Has SP} ever used female hormones such as estrogen and progesterone? Please include any forms of female hormones, such as pills, cream, patch, and injectables, but do not include birth control methods or use for infertility.

Target: Females only 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	675	675	
2	No	3356	4031	End of Section
7	Refused	5	4036	End of Section
9	Don't know	18	4054	End of Section
.	Missing	1260	5314	

RHQ542A - Hormone pills used

Variable Name: RHQ542A

SAS Label: Hormone pills used

English Text: Which forms of female hormones {have you/has SP} used.

English Instructions: CODE ALL THAT APPLY.

Target: Females only 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
10	Pills	512	512	
77	Refused	0	512	
99	Don't know	5	517	
.	Missing	4797	5314	

RHQ542B - Hormone patches used

Variable Name: RHQ542B

SAS Label: Hormone patches used

English Text: Which forms of female hormones {have you/has SP} used.

English Instructions: CODE ALL THAT APPLY.

Target: Females only 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
11	Patches	87	87	
.	Missing	5227	5314	

RHQ542C - Hormone cream/suppository/injection used

Variable Name: RHQ542C

SAS Label: Hormone cream/suppository/injection used

English Text: Which forms of female hormones {have you/has SP} used.

English Instructions: CODE ALL THAT APPLY.

Target: Females only 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
12	Cream/suppository/injection	171	171	
.	Missing	5143	5314	

RHQ542D - Other form of female hormone used

Variable Name: RHQ542D

SAS Label: Other form of female hormone used

English Text: Which forms of female hormones {have you/has SP} used.

English Instructions: CODE ALL THAT APPLY.

Target: Females only 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
13	Other	11	11	
.	Missing	5303	5314	

RHQ554 - Use hormone pills w/estrogen only

Variable Name: RHQ554

SAS Label: Use hormone pills w/estrogen only

English Text: {Have you/Has SP} ever taken female hormone pills containing estrogen only (like Premarin)? (Do not include birth control pills.)

Target: Females only 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	359	359	
2	No	112	471	RHQ570
7	Refused	0	471	RHQ570
9	Don't know	41	512	RHQ570
.	Missing	4802	5314	

RHQ570 - Used estrogen/progestin combo pills

Variable Name: RHQ570

SAS Label: Used estrogen/progestin combo pills

English Text: {Have you/Has SP} taken female hormone pills containing both estrogen and progestin (like Prempro, Premphase)? (Do not include birth control pills.)

Target: Females only 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	84	84	
2	No	379	463	
7	Refused	0	463	
9	Don't know	49	512	
.	Missing	4802	5314	