

National Health and Nutrition Examination Survey

2015-2016 Data Documentation, Codebook, and Frequencies

Diabetes (DIQ_I)

Data File: DIQ_I.xpt

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Last Revised: NA

Component Description

The diabetes section (variable name prefix DIQ) provides personal interview data on diabetes, prediabetes, use of insulin or oral hypoglycemic medications, and diabetic retinopathy. It also provides self-reported information on awareness of risk factors for diabetes, general knowledge of diabetic complications, and medical or personal cares associated with diabetes.

Eligible Sample

All survey participants aged 1 year and older were eligible. The questions asked varied by age and history of diabetes. Please refer to the diabetes questionnaire and corresponding codebook for question-specific details about the eligible target group.

Interview Setting and Mode of Administration

These questions were asked, in the home, by trained interviewers using the Computer-Assisted Personal Interview (CAPI) system. Hand cards showing response categories were also used for some questions. When necessary, household interviewers read the hand cards to survey participants. Participants 16 years of age and older and emancipated minors were interviewed directly. A proxy provided information for survey participants who were under 16 years of age and for participants who could not answer the questions themselves.

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

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.

DID040: How old when a doctor first told you that you had diabetes?

All responses of age 80 years and older are coded as "80", to be consistent with the coding for the participant age variable in the demographics file. Also, the onset of diabetes at age less than 1 year was coded as 666.

DID060: For how long have you been taking insulin?

Taking insulin less than 1 month was coded as 666.

DIQ175A-DIQ175W: Why do you think you are at risk for diabetes/prediabetes?

The variables DIQ175A-DIQ175U correspond to each response category in the hand card. The variables DIQ175V (Craving for sweet/eating a lot of sugar), DIQ175W (Medication), and DIQ175X (Polycystic ovarian syndrome) were derived from other specified responses.

DID250: How many times have you seen doctor in the past 12 months?

The value was coded as 0 for participants who reported "None."

DID260: How often do you check your blood for glucose or sugar?

This variable was coded as 0 for participants who reported "Never."

DID320: What was your most recent LDL cholesterol number?

This variable was coded as 5555 and 6666 for participants who reported "Never heard of LDL" and "Never had cholesterol test" respectively.

DID310S/D: What does doctor say your blood pressure should be?

DID330: What does doctor say your LDL cholesterol should be?

If a participant reported "Provider did not specify goal," the value of corresponding variable was coded as 6666.

DID341: During the past 12 months, how many times has a doctor checked your feet for any sores or irritations?

The value was coded as 0 for participants who reported "None."

DID350: How often do you check your feet for sores or irritation?

The value was coded as 0 for participants who reported "None."

Analytic Notes

In the 2015–2016 data, the core questions for the diabetes component, including doctor diagnosed diabetes, duration of diabetes, insulin use, oral diabetic medication, and diabetic retinopathy are similar to the 1999–2014 publicly release data. Questions about the participants' knowledge of their own levels of A1c, blood pressure, and cholesterol and knowledge of appropriate target levels, as suggested by their physicians, are similar to the 2005–2008 and 2011–2014 public release data. The responses to these questions reflect the participants' knowledge and may not be biologically reasonable. Questions regarding "Why participants feel they may be at risk for diabetes" were collected since the 2011–2012 survey.

When combining DIQ data from different survey cycles, please note that there is a possible name change for the same question across survey cycles due to data processing and editing. The following cross reference table shows these variable names from the 1999–2000 data through the 2015–2016 data.

Variable names across cycles

Label	1999–2000	2001–2004	2005–2008	2009–2016
Age when first told you had diabetes	DIQ040G	DID040G	DID040	DID040
Number of years of age	DIQ040Q	DID040Q		
How long taking insulin	DIQ060G	DID060G	DID060	DID060
Number of mos/yr taking insulin	DIQ060Q	DID060Q		
Take diabetic pills to lower blood sugar	DIQ070	DIQ070	DID070	DIQ070
Past year times Dr check feet for sore	NA	NA	DID340	DID341

Questions about whether the participant was told to control weight, increase physical activity, and reduce fat and whether the participant was now doing these activities are in the Medical Condition Section in the 2011–2016 surveys.

Variable comparable across cycles in different sections

Label	2005-2008 DIQ_D & DIQ_E	2011-2016 MCQ_G, MCQ_H, & MCQ_I
Past yr told control weight	DIQ190A	MCQ365A
Past yr told increase physical activity	DIQ190B	MCQ365B
Past yr told reduce fat/calories in diet	DIQ190C	MCQ365D
Are you controlling weight	DIQ200A	MCQ370A
Are you increasing physical activity	DIQ200B	MCQ370B
Are you reducing fat/calories in diet	DIQ200C	MCQ370D

The analysis of NHANES 2015–2016 diabetes questionnaire data must be conducted using the appropriate survey design variables, sample weights, and the basic demographic variables. Interview weights should only be used if questionnaire data are analyzed by themselves. However, if DIQ data are merged with the MEC examination data or laboratory data, the MEC examination weights should be used for analyses. If DIQ data are merged with laboratory sub-sample data, sub-sample weights should be used for analyses.

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:	Both males and females 1 YEARS - 150 YEARS

DIQ010 - Doctor told you have diabetes

Variable Name: DIQ010

SAS Label: Doctor told you have diabetes

English Text: The next questions are about specific medical conditions. {Other than during pregnancy, {have you/has SP}/{Have you/Has SP}} ever been told by a doctor or health professional that {you have/{he/she/SP} has} diabetes or sugar diabetes?

English Instructions: CAPI INSTRUCTION: IF SP AGE < 15, DISPLAY "HAVE SP" FOR THE FIRST DISPLAY AND "SP HAS" FOR THE SECOND DISPLAY. IF SP IS FEMALE AND AGE >= 20, DISPLAY "OTHER THAN DURING PREGNANCY, {HAVE YOU/HAS SP}".

Target: Both males and females 1 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	856	856	
2	No	8568	9424	DIQ159
3	Borderline	147	9571	DIQ159
7	Refused	0	9571	DIQ159
9	Don't know	4	9575	DIQ159
.	Missing	0	9575	

DID040 - Age when first told you had diabetes

Variable Name: DID040

SAS Label: Age when first told you had diabetes

English Text: How old {was SP/were you} when a doctor or other health professional first told {you/him/her} that {you/he/she} had diabetes or sugar diabetes?

English Instructions: ENTER AGE IN YEARS.

Target: Both males and females 1 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
2 to 78	Range of Values	833	833	
80	80 years or older	7	840	
666	Less than 1 year	1	841	
777	Refused	0	841	
999	Don't know	12	853	
.	Missing	8722	9575	

DIQ159 - CHECK ITEM

Variable Name:	DIQ159
English Instructions:	BOX 4. CHECK ITEM DIQ.159: IF AGE <12 OR DIQ.010 = 1 (YES), GO TO DIQ.050. IF AGE >=12 AND DIQ.010 = 3, GO TO DIQ.170. OTHERWISE, CONTINUE.
Target:	Both males and females 1 YEARS - 150 YEARS

DIQ160 - Ever told you have prediabetes

Variable Name: DIQ160

SAS Label: Ever told you have prediabetes

English Text: {Have you/Has SP} ever been told by a doctor or other health professional that {you have/SP has} any of the following: prediabetes, impaired fasting glucose, impaired glucose tolerance, borderline diabetes or that {your/her/his} blood sugar is higher than normal but not high enough to be called diabetes or sugar diabetes?

English Instructions: CAPI INSTRUCTION: HELP SCREEN: PREDIABETES, IMPAIRED FASTING GLUCOSE, IMPAIRED GLUCOSE TOLERANCE, OR BORDERLINE DIABETES OCCURS WHEN BLOOD SUGAR (GLUCOSE) LEVELS ARE HIGHER THAN NORMAL BUT NOT HIGH ENOUGH TO BE DIABETES. HAND CARD DIQ1.

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	513	513	
2	No	5521	6034	
7	Refused	0	6034	
9	Don't know	11	6045	
.	Missing	3530	9575	

DIQ170 - Ever told have health risk for diabetes

Variable Name: DIQ170

SAS Label: Ever told have health risk for diabetes

English Text: {Have you/Has SP} ever been told by a doctor or other health professional that {you have/s/he has} health conditions or a medical or family history that increases {your/his/her} risk for diabetes?

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	899	899	
2	No	5268	6167	
7	Refused	0	6167	
9	Don't know	19	6186	
.	Missing	3389	9575	

DIQ172 - Feel could be at risk for diabetes

Variable Name: DIQ172

SAS Label: Feel could be at risk for diabetes

English Text: {Do you/Does SP} feel {you/he/she} could be at risk for diabetes or prediabetes?

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	1588	1588	
2	No	4510	6098	DIQ180
7	Refused	1	6099	DIQ180
9	Don't know	87	6186	DIQ180
.	Missing	3389	9575	

DIQ175A - Family history

Variable Name: DIQ175A

SAS Label: Family history

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
10	Family history	1186	1186	
77	Refused	0	1186	
99	Don't know	0	1186	
.	Missing	8389	9575	

DIQ175B - Overweight

Variable Name: DIQ175B

SAS Label: Overweight

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
11	Overweight	601	601	
.	Missing	8974	9575	

DIQ175C - Age

Variable Name: DIQ175C

SAS Label: Age

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
12	Age	160	160	
.	Missing	9415	9575	

DIQ175D - Poor diet

Variable Name: DIQ175D

SAS Label: Poor diet

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
13	Poor diet	459	459	
.	Missing	9116	9575	

DIQ175E - Race

Variable Name: DIQ175E

SAS Label: Race

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
14	Race	155	155	
.	Missing	9420	9575	

DIQ175F - Had a baby weighed over 9 lbs. at birth

Variable Name: DIQ175F

SAS Label: Had a baby weighed over 9 lbs. at birth

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
15	Had a baby weighed over 9 lbs. at birth	53	53	
.	Missing	9522	9575	

DIQ175G - Lack of physical activity

Variable Name: DIQ175G

SAS Label: Lack of physical activity

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
16	Lack of physical activity	280	280	
.	Missing	9295	9575	

DIQ175H - High blood pressure

Variable Name: DIQ175H

SAS Label: High blood pressure

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
17	High blood pressure	258	258	
.	Missing	9317	9575	

DIQ175I - High blood sugar

Variable Name: DIQ175I

SAS Label: High blood sugar

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
18	High blood sugar	77	77	
.	Missing	9498	9575	

DIQ175J - High cholesterol

Variable Name: DIQ175J

SAS Label: High cholesterol

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
19	High cholesterol	150	150	
.	Missing	9425	9575	

DIQ175K - Hypoglycemic

Variable Name: DIQ175K

SAS Label: Hypoglycemic

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
20	Hypoglycemic	31	31	
.	Missing	9544	9575	

DIQ175L - Extreme hunger

Variable Name: DIQ175L

SAS Label: Extreme hunger

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
21	Extreme hunger	59	59	
.	Missing	9516	9575	

DIQ175M - Tingling/numbness in hands or feet

Variable Name: DIQ175M

SAS Label: Tingling/numbness in hands or feet

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
22	Tingling/numbness in hands or feet	138	138	
.	Missing	9437	9575	

DIQ175N - Blurred vision

Variable Name: DIQ175N

SAS Label: Blurred vision

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
23	Blurred vision	109	109	
.	Missing	9466	9575	

DIQ1750 - Increased fatigue

Variable Name: DIQ1750

SAS Label: Increased fatigue

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
24	Increased fatigue	134	134	
.	Missing	9441	9575	

DIQ175P - Anyone could be at risk

Variable Name: DIQ175P

SAS Label: Anyone could be at risk

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
25	Anyone could be at risk	117	117	
.	Missing	9458	9575	

DIQ175Q - Doctor warning

Variable Name: DIQ175Q

SAS Label: Doctor warning

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
26	Doctor warning	136	136	
.	Missing	9439	9575	

DIQ175R - Other, specify

Variable Name: DIQ175R

SAS Label: Other, specify

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
27	Other, specify	23	23	
.	Missing	9552	9575	

DIQ175S - Gestational diabetes

Variable Name: DIQ175S

SAS Label: Gestational diabetes

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
28	Gestational diabetes	31	31	
.	Missing	9544	9575	

DIQ175T - Frequent urination

Variable Name: DIQ175T

SAS Label: Frequent urination

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
29	Frequent urination	105	105	
.	Missing	9470	9575	

DIQ175U - Thirst

Variable Name: DIQ175U

SAS Label: Thirst

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
30	Thirst	79	79	
.	Missing	9496	9575	

DIQ175V - Craving for sweet/eating a lot of sugar

Variable Name: DIQ175V

SAS Label: Craving for sweet/eating a lot of sugar

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes?

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
31	Craving for sweet/eating a lot of sugar	11	11	
.	Missing	9564	9575	

DIQ175W - Medication

Variable Name: DIQ175W

SAS Label: Medication

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
32	Medication	4	4	
.	Missing	9571	9575	

DIQ175X - Polycystic ovarian syndrome

Variable Name: DIQ175X

SAS Label: Polycystic ovarian syndrome

English Text: Why {Do you/Does SP} think {you are/he is/she is} at risk for diabetes or prediabetes? [Anything else?]

English Instructions: INTERVIEWER INSTRUCTION: DO NOT READ. CODE ALL THAT APPLY.
CAPI INSTRUCTION: IF RESPONDENT ANSWERS "OTHER", ALLOW ENTRY OF RESPONSE UP TO 250 CHARACTERS. HAND CARD DIQ2

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
33	Polycystic ovarian syndrome	1	1	
.	Missing	9574	9575	

DIQ180 - Had blood tested past three years

Variable Name: DIQ180

SAS Label: Had blood tested past three years

English Text: {Have you/Has SP} had a blood test for high blood sugar or diabetes within the past three years?

English Instructions: INTERVIEWER INSTRUCTION: DO NOT INCLUDE URINE TESTS.

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	2836	2836	
2	No	3167	6003	
7	Refused	2	6005	
9	Don't know	181	6186	
.	Missing	3389	9575	

DIQ050 - Taking insulin now

Variable Name: DIQ050

SAS Label: Taking insulin now

English Text: {Is SP/Are you} now taking insulin

Target: Both males and females 1 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	256	256	
2	No	9316	9572	DIQ065
7	Refused	1	9573	DIQ065
9	Don't know	2	9575	DIQ065
.	Missing	0	9575	

DID060 - How long taking insulin

Variable Name: DID060
SAS Label: How long taking insulin
English Text: For how long {have you/has SP} been taking insulin?
English Instructions: ENTER NUMBER (OF MONTHS OR YEARS).
Target: Both males and females 1 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1 to 55	Range of Values	249	249	
666	Less than 1 month	5	254	
777	Refused	0	254	
999	Don't know	2	256	
.	Missing	9319	9575	

DIQ060U - Unit of measure (month/year)

Variable Name: DIQ060U
SAS Label: Unit of measure (month/year)
English Text: UNIT OF MEASURE
English Instructions: ENTER UNIT.
Target: Both males and females 1 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Months	30	30	
2	Years	219	249	
.	Missing	9326	9575	

DIQ065 - CHECK ITEM

Variable Name: DIQ065

English Instructions: BOX 0. CHECK ITEM DIQ.065: IF DIQ.010 = 1 (YES) OR DIQ.010 = 3 (BORDERLINE OR PREDIABETES) OR DIQ.160 = 1 (YES) CONTINUE. OTHERWISE, GO TO END OF SECTION.

Target: Both males and females 1 YEARS - 150 YEARS

DIQ070 - Take diabetic pills to lower blood sugar

Variable Name: DIQ070

SAS Label: Take diabetic pills to lower blood sugar

English Text: {Is SP/Are you} now taking diabetic pills to lower {{his/her}/your} blood sugar? These are sometimes called oral agents or oral hypoglycemic agents.

Target: Both males and females 1 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	643	643	
2	No	870	1513	
7	Refused	1	1514	
9	Don't know	1	1515	
.	Missing	8060	9575	

DIQ229 - CHECK ITEM

Variable Name: DIQ229

English Instructions: BOX 8. CHECK ITEM DIQ.229: IF DIQ.010 = 3 (BORDERLINE OR PREDIABETES) OR DIQ.160 = 1 (YES), GO TO END OF SECTION. OTHERWISE, CONTINUE.

Target: Both males and females 1 YEARS - 150 YEARS

DIQ230 - How long ago saw a diabetes specialist

Variable Name: DIQ230

SAS Label: How long ago saw a diabetes specialist

English Text: When was the last time {you/SP} saw a diabetes nurse educator or dietitian or nutritionist for {your/his/her} diabetes? Do not include doctors or other health professionals.

English Instructions: INTERVIEWER INSTRUCTION: IF RESPONDENT ANSWERS "TODAY" OR A PERIOD LESS THAN A MONTH, CODE 1 - THE 0-12 MONTH CATEGORY.

Target: Both males and females 1 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	1 year ago or less	276	276	
2	More than 1 year ago but no more than 2 years ago	64	340	
3	More than 2 years ago but no more than 5 years ago	86	426	
4	More than 5 years ago	85	511	
5	Never	330	841	
7	Refused	0	841	
9	Don't know	12	853	
.	Missing	8722	9575	

DIQ240 - Is there one Dr you see for diabetes

Variable Name: DIQ240

SAS Label: Is there one Dr you see for diabetes

English Text: Is there one doctor or other health professional {you usually see/SP usually sees} for {your/his/her} diabetes? Do not include specialists to whom {you have/SP has} been referred such as diabetes educators, dieticians or foot and eye doctors.

Target: Both males and females 1 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	643	643	
2	No	210	853	DID260
7	Refused	0	853	DID260
9	Don't know	0	853	DID260
.	Missing	8722	9575	

DID250 - Past year how many times seen doctor

Variable Name: DID250

SAS Label: Past year how many times seen doctor

English Text: How many times {have you/has SP} seen this doctor or other health professional in the past 12 months?

English Instructions: ENTER NUMBER OF TIMES.

Target: Both males and females 1 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1 to 60	Range of Values	627	627	
0	None	13	640	
7777	Refused	0	640	
9999	Don't know	3	643	
.	Missing	8932	9575	

DID260 - How often check blood for glucose/sugar

Variable Name: DID260

SAS Label: How often check blood for glucose/sugar

English Text: How often {do you check your/does SP check his/her} blood for glucose or sugar? Include times when checked by a family member or friend, but do not include times when checked by a doctor or other health professional.

English Instructions: INTERVIEW INSTRUCTION: DO NOT INCLUDE URINE TESTS. CAPI INSTRUCTION: SOFT EDIT 7 OR MORE PER DAY, 30 OR MORE PER WEEK. ENTER NUMBER OF TIMES.

Target: Both males and females 1 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1 to 15	Range of Values	661	661	
0	Never	188	849	
777	Refused	0	849	
999	Don't know	0	849	
.	Missing	8726	9575	

DIQ260U - Unit of measure (day/week/month/year)

Variable Name: DIQ260U

SAS Label: Unit of measure (day/week/month/year)

English Text: How often {do you check your/does SP check his/her} blood for glucose or sugar? Include times when checked by a family member or friend, but do not include times when checked by a doctor or other health professional.

English Instructions: ENTER UNIT.

Target: Both males and females 1 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Per day	412	412	
2	Per week	150	562	
3	Per month	65	627	
4	Per year	34	661	
.	Missing	8914	9575	

DIQ275 - Past year Dr checked for A1C

Variable Name: DIQ275

SAS Label: Past year Dr checked for A1C

English Text: Glycosylated (GLY-KOH-SIH-LAY-TED) hemoglobin or the "A one C" test measures your average level of blood sugar for the past 3 months, and usually ranges between 5.0 and 13.9. During the past 12 months, has a doctor or other health professional checked {your/SP's} glycosylated hemoglobin or "A one C"?

Target: Both males and females 1 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	641	641	
2	No	156	797	DIQ295
7	Refused	0	797	DIQ295
9	Don't know	56	853	DIQ295
.	Missing	8722	9575	

DIQ280 - What was your last A1C level

Variable Name: DIQ280

SAS Label: What was your last A1C level

English Text: What was {your/SP's} last "A one C" level?

English Instructions: CAPI INSTRUCTION: SOFT EDIT FOR ANY NUMBER LESS THAN 5 OR MORE THAN 14. ENTER VALUE

Target: Both males and females 1 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
2 to 18.5	Range of Values	404	404	
777	Refused	2	406	
999	Don't know	235	641	
.	Missing	8934	9575	

DIQ291 - What does Dr say A1C should be

Variable Name: DIQ291

SAS Label: What does Dr say A1C should be

English Text: What does {your/SP's} doctor or other health professional say
{your/his/her} "A one C" level should be? (Pick the lowest level
recommended by your health care professional.)

English Instructions: HAND CARD DIQ3

Target: Both males and females 1 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Less than 6	213	213	
2	Less than 7	182	395	
3	Less than 8	32	427	
4	Less than 9	5	432	
5	Less than 10	9	441	
6	Provider did not specify goal	88	529	
77	Refused	2	531	
99	Don't know	110	641	
.	Missing	8934	9575	

DIQ295 - CHECK ITEM

Variable Name:	DIQ295
English Instructions:	BOX 10A. CHECK ITEM DIQ.295: IF AGE <12, GO TO END OF SECTION. OTHERWISE, CONTINUE.
Target:	Both males and females 1 YEARS - 150 YEARS

DIQ300S - What was your recent SBP

Variable Name: DIQ300S

SAS Label: What was your recent SBP

English Text: Blood pressure is usually given as one number over another. What was {your/SP's} most recent blood pressure in numbers?

English Instructions: ENTER VALUES. CAPI INSTRUCTION: SYSTOLIC SOFT EDIT: 80-200. DIASTOLIC SOFT EDIT: 0-150.

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
80 to 201	Range of Values	539	539	
7777	Refused	1	540	
9999	Don't know	305	845	
.	Missing	8730	9575	

DIQ300D - What was your recent DBP

Variable Name: DIQ300D

SAS Label: What was your recent DBP

English Text: Blood pressure is usually given as one number over another. What was {your/SP's} most recent blood pressure in numbers?

English Instructions: ENTER VALUES. CAPI INSTRUCTION: SYSTOLIC SOFT EDIT: 80-200. DIASTOLIC SOFT EDIT: 0-150.

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
17 to 251	Range of Values	515	515	
7777	Refused	2	517	
9999	Don't know	328	845	
.	Missing	8730	9575	

DID310S - What does Dr say SBP should be

Variable Name: DID310S

SAS Label: What does Dr say SBP should be

English Text: What does {your/SP's} doctor or other health professional say
{your/his/her} blood pressure should be?

English Instructions: ENTER VALUES. INTERVIEWER INSTRUCTION. IF RANGE GIVEN,
RECORD UPPER VALUE OF RANGE. CAPI INSTRUCTION: SYSTOLIC
SOFT EDIT: 80-200. DIASTOLIC SOFT EDIT: 0-150.

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
80 to 175	Range of Values	336	336	
6666	Provider did not specify goal	308	644	
7777	Refused	2	646	
9999	Don't know	200	846	
.	Missing	8729	9575	

DID310D - What does Dr say DBP should be

Variable Name: DID310D

SAS Label: What does Dr say DBP should be

English Text: What does {your/SP's} doctor or other health professional say {your/his/her} blood pressure should be?

English Instructions: ENTER VALUES. INTERVIEWER INSTRUCTION. IF RANGE GIVEN, RECORD UPPER VALUE OF RANGE. CAPI INSTRUCTION: SYSTOLIC SOFT EDIT: 80-200. DIASTOLIC SOFT EDIT: 0-150.

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
18 to 140	Range of Values	315	315	
6666	Provider did not specify goal	308	623	
7777	Refused	2	625	
9999	Don't know	221	846	
.	Missing	8729	9575	

DID320 - What was most recent LDL number

Variable Name: DID320

SAS Label: What was most recent LDL number

English Text: One part of total serum cholesterol in {your/SP's} blood is a bad cholesterol, called LDL, which builds up and clogs {your/his/her} arteries. What was {your/his/her} most recent LDL cholesterol number?

English Instructions: ENTER VALUE CAPI INSTRUCTION: SOFT EDIT: 40-250.

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
4 to 520	Range of Values	115	115	
5555	Never heard of LDL	59	174	DID341
6666	Never had cholesterol test	34	208	DID341
7777	Refused	5	213	
9999	Don't know	633	846	
.	Missing	8729	9575	

DID330 - What does Dr say LDL should be

Variable Name: DID330

SAS Label: What does Dr say LDL should be

English Text: What does {your/SP's} doctor or other health professional say
{your/his/her} LDL cholesterol should be?

English Instructions: ENTER VALUE. INTERVIEWER INSTRUCTION: IF RANGE GIVEN,
RECORD UPPER VALUE OF RANGE. CAPI INSTRUCTION: SOFT EDIT:
40-250.

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
6 to 205	Range of Values	87	87	
6666	Provider did not specify goal	242	329	
7777	Refused	3	332	
9999	Don't know	421	753	
.	Missing	8822	9575	

DID341 - Past year times Dr check feet for sores

Variable Name: DID341

SAS Label: Past year times Dr check feet for sores

English Text: During the past 12 months, about how many times has a doctor or other health professional checked {your/SP's} feet for any sores or irritations?

English Instructions: ENTER NUMBER OF TIMES.

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1 to 34	Range of Values	590	590	
0	None	242	832	
7777	Refused	2	834	
9999	Don't know/not sure	9	843	
.	Missing	8732	9575	

DID350 - How often do you check your feet

Variable Name: DID350

SAS Label: How often do you check your feet

English Text: How often {do you check your feet/does SP check (his/her) feet} for sores or irritations? Include times when checked by a family member or friend, but do not include times when checked by a doctor or other health professional.

English Instructions: ENTER NUMBER OF TIMES.

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1 to 20	Range of Values	699	699	
0	None	139	838	
7777	Refused	0	838	
9999	Don't know	5	843	
.	Missing	8732	9575	

DIQ350U - Unit of measure (day/week/month/year)

Variable Name: DIQ350U

SAS Label: Unit of measure (day/week/month/year)

English Text: How often {do you check your feet/does SP check (his/her) feet} for sores or irritations? Include times when checked by a family member or friend, but do not include times when checked by a doctor or other health professional.

English Instructions: ENTER UNIT.

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Per day	487	487	
2	Per week	152	639	
3	Per month	46	685	
4	Per year	14	699	
.	Missing	8876	9575	

DIQ360 - Last time had pupils dilated for exam

Variable Name: DIQ360

SAS Label: Last time had pupils dilated for exam

English Text: When was the last time {you/SP} had an eye exam in which the pupils were dilated? This would have made {you/SP} temporarily sensitive to bright light.

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Less than 1 month	82	82	
2	1-12 months	440	522	
3	13-24 months	129	651	
4	Greater than 2 years	116	767	
5	Never	64	831	
7	Refused	0	831	
9	Don't know	15	846	
.	Missing	8729	9575	

DIQ080 - Diabetes affected eyes/had retinopathy

Variable Name: DIQ080

SAS Label: Diabetes affected eyes/had retinopathy

English Text: Has a doctor ever told {you/SP} that diabetes has affected {your/his/her} eyes or that {you/s/he} had retinopathy (ret-in-op-ath-ee)?

Target: Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	194	194	
2	No	644	838	
7	Refused	0	838	
9	Don't know	8	846	
.	Missing	8729	9575	