In Person: Newest Vital Sign (NVS) Health Literacy Assessment

KNVS Newest Vital Sign (NVS) Health Literacy Assessment Module

OVERVIEW

The Newest Vital Sign (NVS) Health Literacy Assessment Module is new to the 2011 collection wave. At its core is a health literacy assessment tool known as the "Newest Vital Sign (NVS)." Designed to gauge patients' ability to correctly parse and react to health information, NVS is premised on the notion that inadequate comprehension of such information is associated with inability to properly follow medical guidelines and, by corollary, increased likelihood of health problems. The assessment, which is untimed and typically takes approximately three minutes to administer, involves having patients orally answer up to six questions about the information encoded within an ice cream container's nutrition label (the 6th question is only asked if the 5th question is answered correctly). Based on patients' responses, a health literacy score is computed as the sum of their correct answers to all asked questions. It is recommended that scores be interpreted as follows:

NVS Score	Interpretation
0-1	Suggests high likelihood (50% or more) of limited health literacy.
2-3	Indicates the possibility of limited health literacy.
4-6	Almost always indicates adequate health literacy.

Within the context of the CAPI interview, the NVS assessment was administered to participants just as it would have been if they were visiting a doctor's office: participants were handed the standard ice cream nutrition label and asked all applicable NVS questions in sequence. A health literacy score was computed for all participants who completed the assessment without refusing any individual NVS questions. To see the ice cream nutrition label that participants were instructed to refer to when completing the NVS assessment, please access the following link and navigate to page 5: http://www.pfizerhealthliteracy.com/asset/pdf/NVS_Eng/files/nvs_flipbook_english_final.pdf. For more general information about health literacy and Newest Vital Sign, see www.pfizerhealthliteracy.com.

BRIEF VARIABLE DESCRIPTIONS

Variable ranges reference dataset/codebook order and are not necessarily alphabetical.

KNVSSTAT-KNVSREL:	Module-Level Status Variables
KI701RE:	Random 40% Sub-Sampling Flag Dictating Whether NVS Assessment Administered to Participant
KI702RE:	Flag for Outcome of NVS Health Literacy Assessment
KI790RE:	Number of Asked Questions Not Attempted if

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                        Participant Completed the NVS Assessment
                        Without Refusing Any Asked Questions

KI709RE:                NVS Health Literacy Score: Assessment
                        Completed and All Asked Questions
                        Attempted Without Any Refusals

KI710RE:                NVS Health Literacy Score: Assessment
                        Completed Without Any Refusals

KI703RE-KI708RE:        Indicators for Whether Each of the Six NVS
                        Questions Were Answered Correctly
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knvsstat: Was the Newest Vital Sign (NVS) Health Literacy Assessment Module completed by Participant alone, with help, or by proxy?

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: In person & telephone
Source variables: y_nvsflag, y_nvsproxy1, y_nvshelp0, capiproxy, y_proxy, y_ivwloc

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-28	NOT ASKED OF PARTICIPANT OVER TELEPHONE	11	16	27
-27	NOT ASKED OF PROXY	3	5	8
-2	Inappropriate Inap, not in sample (y_nvsflag != 1)	976	1074	2050
1	R COMPLETED ALONE	549	641	1190
2	R COMPLETED ALONE WITH SOMEONE ELSE IN THE ROOM	75	24	99
3	R RECEIVED A LITTLE HELP	10	6	16
4	R RECEIVED A LOT OF HELP	3	2	5
5	HELPER RESPONDED TO ALL ITEMS	2	0	2

Note: For many cases a participant's spouse or other family member was present during the interview. This sometimes resulted in the participant relying on the other person for help in answering some or many of the questions. At the end of each module the interviewer indicated the amount of help the participant received and who provided that help. That assessment is covered by codes 1 through 5. Additionally, a code of 7 indicates that the entire interview was administered to a proxy while a code of 6 indicates that this particular module was answered by a proxy but other modules were answered by the participant.

knvsrel: Relationship of Newest Vital Sign (NVS) Health Literacy Assessment Module helper or proxy to Participant.

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: In person & telephone
Source variables: knvsstat, y_nvsproxy1, y_nvshelp0, y_nvshelp1, y_nvshelp2_hfn, y_nvshelp3, y_h1fn-y_h4fn, y_pfn, prxyfnam, y_p1fn-y_p5fn, y_prel, prxyrel, y_p1rel-y_p5rel

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-28	NOT ASKED OF PARTICIPANT OVER TELEPHONE	11	16	27
-27	NOT ASKED OF PROXY	3	5	8
-2	Inappropriate Inap, not in sample (y_nvsflag != 1) or knvsstat=1,2,-3	1600	1739	3339
0	SPOUSE	14	5	19
8	DAUGHTER	0	2	2
41	ROMANTIC PARTNER	1	1	2

Note: If this module was administered via proxy or if the participant received help answering the questions in this module then we record the relationship of the proxy/helper to the participant. Although most participants relied on only one helper or proxy for the interview, some had more than one. Thus the value of the relationship code may vary across the modules.

ki701re: Summary of whether Participant belonged to the 40% sub-sample randomly selected to complete the NVS Health Literacy Assessment.

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: In person & telephone
Source variables: y_nvsflag

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
1	IN 40% RANDOM SAMPLE	653	694	1347
2	NOT IN 40% RANDOM SAMPLE	976	1074	2050

ki702re: Flag for outcome of the NVS Health Literacy Assessment.

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: In person & telephone
Source variables: ki701re, y_NVSintro, y_NVS1, y_NVS2, y_NVS3, y_NVS4, y_NVS5b, y_NVS5c

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-28	NOT ASKED OF PARTICIPANT OVER TELEPHONE	11	16	27
-27	NOT ASKED OF PROXY	3	5	8
-2	INAPPROPRIATE INAPPROPRIATE (KI701RE != 1)	976	1074	2050
1	COMPLETED, ATTEMPTED TO ANSWER ALL ASKED QUESTIONS	502	491	993
2	COMPLETED, DID NOT ATTEMPT TO ANSWER ALL ASKED QUESTIONS (BUT NEVER REFUSED)	120	163	283
3	COMPLETED, REFUSED TO ANSWER ONE OR MORE ASKED QUESTIONS	10	11	21
4	NOT ADMINISTERED/DOCUMENTED CORRECTLY OR AT ALL	1	2	3
5	PARTICIPANT COULD NOT SEE WELL ENOUGH TO BE ASSESSED	2	1	3
6	PARTICIPANT REFUSED ASSESSMENT IN ITS ENTIRETY	4	5	9

Note: The participant was considered to have completed the NVS Health Literacy Assessment if they legitimately responded to all asked NVS questions with any of the following: a correct or incorrect answer; a refusal of the question; or an indication that they "don't know" with no attempt to guess the answer. If an NVS question that should have been asked was not or we have no record of the participant's response to one or more asked questions, the assessment was deemed to have been administered or documented incorrectly and this variable has been assigned a value of "4." If the participant was unable to see well enough to read the ice cream container nutrition label provided to them as part of the NVS assessment, it was not administered and this variable has been assigned a value of "5."
Note: Participants were only asked all six NVS questions if they answered question #5 correctly; those who did not answer question #5 correctly skipped question #6 (resulting in them being asked a total of five questions).

ki790re: Number of asked questions not attempted if Participant completed the NVS Health Literacy Assessment without refusing any questions.

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: In person & telephone
Source variables: ki702re, ki703re-ki708re

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-28	NOT ASKED OF PARTICIPANT OVER TELEPHONE	11	16	27
-27	NOT ASKED OF PROXY	3	5	8
-2	INAPPROPRIATE INAPPROPRIATE (KI702RE != 1 OR 2)	993	1093	2086
0	ATTEMPTED TO ANSWER ALL ASKED QUESTIONS	502	491	993
1		86	100	186
2		19	38	57
3		8	17	25
4		6	8	14
5		1	0	1

Note: A participant who completed the NVS Health Literacy Assessment without refusing any questions was deemed not to have attempted answering a question if they responded with "don't know" rather than guessing at the answer. If the participant refused to answer one or more NVS questions - or if the

assessment was not administered or documented correctly - no health literacy score was computed for them and they have been assigned a value of "-2" on this variable (see KI702RE for more information on what assessment completion means, as well as all possible outcome codes).
Note: Participants were only asked all six NVS questions if they answered question #5 correctly; those who did not answer question #5 correctly skipped question #6 (resulting in them being asked a total of five questions).

ki709re: NVS Health Literacy Score if Participant completed the assessment and attempted all asked questions without any refusals.

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: In person & telephone
Source variables: ki702re, ki703re-ki708re

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-28	NOT ASKED OF PARTICIPANT OVER TELEPHONE	11	16	27
-27	NOT ASKED OF PROXY	3	5	8
-2	INAPPROPRIATE INAPPROPRIATE (KI702RE != 1)	1113	1256	2369
0 - 1	HIGH LIKELIHOOD (50% OR MORE) OF LIMITED HEALTH LITERACY	48	34	82
2 - 3	POSSIBILITY OF LIMITED HEALTH LITERACY	122	82	204
4 - 6	ADEQUATE HEALTH LITERACY	332	375	707

Note: Health literacy scores are computed by taking the sum of all correctly answered NVS questions, but participants were only asked all six questions if they answered question #5 correctly; those who did not answer question #5 correctly skipped question #6 (resulting in them being asked a total of five questions).
Note: A participant who completed the NVS Health Literacy Assessment without refusing any questions was deemed to have attempted answering a question if they provided a correct or incorrect response to it; if they responded with "don’t know" rather than guessing at the answer, they were considered to have not attempted the question (see KI790RE). If the participant refused to answer one or more NVS questions - or if the assessment was not administered or documented correctly - no health literacy score was computed for them and they have been assigned a value of "-2" on this variable (see KI702RE for more information on what assessment completion means, as well as all possible outcome codes). For health literacy scores that include participants who completed the NVS assessment without attempting all questions (but who never refused a question), see KI710RE.

ki710re: NVS Health Literacy Score if Participant completed the assessment without any refusals.

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: In person & telephone
Source variables: ki702re, ki703re-ki708re

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-28	NOT ASKED OF PARTICIPANT OVER TELEPHONE	11	16	27
-27	NOT ASKED OF PROXY	3	5	8
-2	INAPPROPRIATE INAPPROPRIATE (KI702RE != 1 OR 2)	993	1093	2086
0 - 1	HIGH LIKELIHOOD (50% OR MORE) OF LIMITED HEALTH LITERACY	103	94	197
2 - 3	POSSIBILITY OF LIMITED HEALTH LITERACY	164	130	294
4 - 6	ADEQUATE HEALTH LITERACY	355	430	785

Note: Health literacy scores are computed by taking the sum of all correctly answered NVS questions, but participants were only asked all six questions if they answered question #5 correctly; those who did not answer question #5 correctly skipped question #6 (resulting in them being asked a total of five questions). Note: This variable includes participants who, while never refusing a question, did not attempt to answer all asked NVS questions when completing the health literacy assessment (see KI790RE); for health literacy scores exclusive to participants who attempted to answer all asked NVS questions, see KI709RE. If a participant who completed the NVS assessment refused to answer one or more questions - or if the assessment was not administered or documented correctly - no health literacy score was computed for them and they have been assigned a value of "-2" on this variable (see KI702RE for more information on what assessment completion means, as well as all possible outcome codes).

ki703re: Summary of whether Participant answered NVS question #1 correctly: 'If you eat the entire container of ice cream, how many calories will you eat?'

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: In person & telephone
Source variables: ki702re, y_NVS1

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-28	NOT ASKED OF PARTICIPANT OVER TELEPHONE	11	16	27
-27	NOT ASKED OF PROXY	3	5	8
-2	INAPPROPRIATE INAPPROPRIATE (KI702RE != 1,2,3, OR 4)	982	1080	2062
-1	DON’T KNOW	11	12	23
0	ANSWERED INCORRECTLY	154	113	267
1	ANSWERED CORRECTLY	468	542	1010

Note: The only correct answer to NVS question #1 is "1,000 calories."

ki704re: Summary of whether Participant answered NVS question #2 correctly: ’If you are allowed to eat 60 grams of carbohydrates as a snack, how much ice cream could you have?’

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: In person & telephone
Source variables: ki702re, y_NVS2

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-28	NOT ASKED OF PARTICIPANT OVER TELEPHONE	11	16	27
-27	NOT ASKED OF PROXY	3	5	8
-3	REFUSED	3	0	3
-2	INAPPROPRIATE INAPPROPRIATE (KI702RE != 1,2,3, OR 4)	982	1080	2062
-1	DON’T KNOW	50	52	102
0	ANSWERED INCORRECTLY	110	71	181
1	ANSWERED CORRECTLY	470	544	1014

Note: Both of the following counted as correct answers to NVS question #2: 1 cup (or any amount up to 1 cup); half the container. If the participant answered with "two servings," the interviewer was instructed to ask, "How much ice cream would that be if you were to measure it into a bowl?"

ki705re: Summary of whether Participant answered NVS question #3 correctly: ’If you stop eating ice cream, how many grams of saturated fat would you be consuming each day?’

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: In person & telephone
Source variables: ki702re, y_NVS3

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-28	NOT ASKED OF PARTICIPANT OVER TELEPHONE	11	16	27
-27	NOT ASKED OF PROXY	3	5	8
-3	REFUSED	5	6	11
-2	INAPPROPRIATE INAPPROPRIATE (KI702RE != 1,2,3, OR 4)	982	1080	2062
-1	DON’T KNOW	50	75	125
0	ANSWERED INCORRECTLY	277	288	565
1	ANSWERED CORRECTLY	301	298	599

Note: NVS question #3 was prefaced by the following hypothetical scenario: "Your doctor advises you to reduce the amount of saturated fat in your diet. You usually have 42 grams of saturated fat each day, which includes one serving of ice cream." The only correct answer to the question is "33 grams."

ki706re: Summary of whether Participant answered NVS question #4 correctly: ’If you usually eat 2,500 calories in a day, what percentage of your daily value of calories will you be eating if you eat one serving of ice cream?’

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: In person & telephone
Source variables: ki702re, y_NVS4

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-28	NOT ASKED OF PARTICIPANT OVER TELEPHONE	11	16	27
-27	NOT ASKED OF PROXY	3	5	8
-3	REFUSED	4	8	12
-2	INAPPROPRIATE INAPPROPRIATE (KI702RE != 1,2,3, OR 4)	982	1080	2062
-1	DON’T KNOW	50	114	164
0	ANSWERED INCORRECTLY	165	184	349
1	ANSWERED CORRECTLY	414	361	775

Note: The only correct answer to NVS question #4 is "10%".

ki707re: Summary of whether Participant answered NVS question #5 correctly: ’Is it safe for you to eat this ice cream?’

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: In person & telephone
Source variables: ki702re, y_NVS5b

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-28	NOT ASKED OF PARTICIPANT OVER TELEPHONE	11	16	27
-27	NOT ASKED OF PROXY	3	5	8
-3	REFUSED	3	2	5
-2	INAPPROPRIATE INAPPROPRIATE (KI702RE != 1,2,3, OR 4)	982	1080	2062
-1	DON’T KNOW	20	10	30
0	ANSWERED INCORRECTLY	270	195	465
1	ANSWERED CORRECTLY	340	460	800

Note: NVS question #5 was prefaced by the following hypothetical scenario: "Pretend that you are allergic to the following substances: penicillin, peanuts, latex gloves, and bee stings." The correct answer to the question is "no."

ki708re: Summary of whether Participant answered NVS question #6 correctly: ’Why is it not safe for you to eat this ice cream?’

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: In person & telephone
Source variables: ki702re, ki707re, y_NVS5c

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-28	NOT ASKED OF PARTICIPANT OVER TELEPHONE	11	16	27
-27	NOT ASKED OF PROXY	3	5	8
-4	NOT ASCERTAINED	2	2	4
-2	INAPPROPRIATE INAPPROPRIATE (KI707RE != 1)	1275	1287	2562
-1	DON’T KNOW	4	1	5
0	ANSWERED INCORRECTLY	21	22	43
1	ANSWERED CORRECTLY	313	435	748

Note: NVS question #6 was only asked if the participant correctly answered question #5. Both questions were prefaced by the following hypothetical scenario: "Pretend that you are allergic to the following substances: penicillin, peanuts, latex gloves, and bee stings." The correct answer to question #6 is something to the effect of "because it has peanut oil."

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