



Atherosclerosis Risk in Communities Study

EXAM 6 NCS

DERIVED VARIABLE DICTIONARY

V6NCSCOG61 SAS DATASET

VERSION 61

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Prepared by the Collaborative Studies Coordinating Center

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NEW OR CHANGED FROM PREVIOUS DISTRIBUTION

This table describes the changes to the last published V6NCSCOG61 dictionary. As the dataset undergoes modifications, this table will describe the updates made to the previously distributed dataset.

Modification Date	Variable Name	Reason(s) for Change
07/24/2018		Dataset final and frozen

1. ADMINISTRATIVE

1.1 ID (ARIC Subject ID)

Type: Character

1.2 SUBJECTID (Subject ID)

Type: Character

1.3 RUNDATE (Run Date for Selection to Stage 2 Algorithm)

Algorithm: Date when selection algorithm was run in the NCS form

Type: Date

Source variable(s): NCS0a

2. NCS BATTERY VARIABLES

2.1 LOGMEMSCORE (V6 Logical Memory Score (Derived))

Algorithm:

Temporary Variables

1) NCS7dderv = sum of (NCS7b, NCS7c)

2) NCS15dderv = sum of (NCS15b, NCS15c)

LOGMEMSCORE= sum of (NCS7dderv, NCS15dderv)

If neither score is present then LOGMEMSCORE is NULL

Type: Numeric

Source variable(s): NCS7b, NCS7c, NCS15b, NCS15c

2.2 TMTASCORE (V6 Trails A Score (Derived))

Algorithm:

Temporary Variables

1) NCS9ederv: If NCS9b and NCS9c are both NOT NULL, then
=NCS9b*60+NCS9c

Else, NULL

TMTASCORE = (NCS9ederv) * -1 + 240

Type: Numeric

Source variable(s): NCS9b, NCS9c

2.3 TMTBSCORE (V6 Trails B Score (Derived))

Algorithm:

Temporary Variables

1) NCS10ederv: If NCS10b and NCS10c are both NOT NULL, then
=NCS10b*60+NCS10c

Else, NULL

$TMTASCORE = (NCS10ederv) * -1 + 240$

Type: Numeric

Source variable(s): NCS10b, NCS10c

2.4 DWRPRES (V6 DWR present)

Format: 1=Yes, 0=No

Algorithm:

=1 if NCS3b is NOT NULL

=0 otherwise

Type: Numeric

Source variable(s): NCS3b

2.5 LOGMEMPRES (V6 Logical Memory Present)

Format: 1=Yes, 0=No

Algorithm:

=1 if LOGMEMSCORE is NOT NULL

=0 otherwise

Type: Numeric

Source variable(s): NCS7b, NCS7c, NCS15b, NCS15c

2.6 INCLRNPRES (V6 Incidental Learning Present)

Format: 1=Yes, 0=No

Algorithm:

=1 if NCS4c is NOT NULL
=0 otherwise

Type: Numeric

Source variable(s): NCS4c

2.7 TMTAPRES (V6 Trails A Present)

Format: 1=Yes, 0=No

Algorithm:

=1 if TMTAScore is NOT NULL
=0 otherwise

Type: Numeric

Source variable(s): NCS9b, NCS9c

2.8 TMTBPRES (V6 Trails B Present)

Format: 1=Yes, 0=No

Algorithm:

=1 if TMTBSCORE is NOT NULL
=0 otherwise

Type: Numeric

Source variable(s): NCS10b, NCS10c

2.9 DSSPRES (V6 Dig Sym Sub Present)

Format: 1=Yes, 0=No

Algorithm:

=1 if NCS2b is NOT NULL
=0 otherwise

Type: Numeric

Source variable(s): NCS2b

2.10 DSBPRES (V6 Digit Span Backwards Present)

Format: 1=Yes, 0=No

Algorithm:

=1 if NCS8b is NOT NULL

=0 otherwise

Type: Numeric

Source variable(s): NCS8b

2.11 SEMANTPRES (V6 Semantic (Animal Naming) Present)

Format: 1=Yes, 0=No

Algorithm:

=1 if NCS6b is NOT NULL

=0 otherwise

Type: Numeric

Source variable(s): NCS6b

2.12 BNT30PRES (V6 Boston Naming Present)

Format: 1=Yes, 0=No

Algorithm:

=1 if NCS12b is NOT NULL

=0 otherwise

Type: Numeric

Source variable(s): NCS12b

2.13 FASPRES (V6 FAS (Word Fluency) Present)

Format: 1=Yes, 0=No

Algorithm:

Temporary Variables

1) NCS5ederv = sum of (NCS5b, NCS5c, NCS5d)

=1 if NCS5ederv is NOT NULL

=0 otherwise

Type: Numeric

Source variable(s): NCS5b, NCS5c, NCS5d

3. DOMAIN VARIABLES

Relevant excerpt about domain z-scores from V6 Manual 17 on the ARIC website:

1. Domain $Z_{V5}V6$ scores are converted to Z scores relative to the Normative Sample ($Z_{NS}V6$) as the $Z_{V5}V6$ value minus the participant's (PPT) predicted mean from the Normative Sample ($Z_{V5}NS$) divided by the root-mean-squared error (RMSE) from race-specific linear regression models of $Z_{V5}V5$ for the normative sample adjusted for age, education and WRAT score, as described in the following steps:
 - 1.1 Visit 5 Domain score values ($Z_{V5}V5$) for each participant in the Normative Sample were calculated by Gross et al (2015).
 - 1.2 Race-specific (African American, Caucasian) linear regression models for each domain score adjusted for age (continuous), education (< HS, HS, >HS) and WRAT score at Visit 5 (continuous) were computed from the Normative Sample domain scores ($Z_{V5}V5$) as follows:

Coefficients and 95% CI for Linear Regression Model of Domain Scores

Domain	Race	Intercept	Education < HS	Education: HS	V6 Age (yrs) - 75	V5 WRAT - 45	RMSE
Memory	African Am.	0.289 (0.215, 0.363)	-0.274 (-0.432, -0.116)	-0.147 (-0.271, 0.023)	-0.030 (-0.040, 0.019)	0.022 (0.015, 0.029)	0.576
	Caucasian	0.438 (0.392, 0.484)	-0.270 (-0.382, 0.157)	-0.156 (-0.214, 0.097)	-0.035 (-0.040, 0.030)	0.032 (0.026, 0.037)	0.593
Language	African Am.	-0.044 (-0.123, 0.035)	-0.570 (-0.739, 0.400)	-0.312 (-0.444, 0.179)	-0.039 (-0.050, 0.027)	0.037 (0.029, 0.045)	0.615
	Caucasian	0.569 (0.532, 0.606)	-0.416 (-0.506, 0.326)	-0.111 (-0.158, 0.064)	-0.039 (-0.043, 0.034)	0.024 (0.020, 0.028)	0.473
Executive Function	African Am.	0.160 (0.086, 0.235)	-0.348 (-0.508, 0.188)	-0.286 (-0.411, 0.160)	-0.028 (-0.039, 0.017)	0.046 (0.038, 0.053)	0.583
	Caucasian	0.454 (0.412, 0.496)	-0.323 (-0.427, 0.220)	-0.196 (-0.249, 0.142)	-0.026 (-0.031, 0.021)	0.044 (0.040, 0.049)	0.543

Intercept corresponds to Education > HS, Age=75, WRAT=45; entries are estimates and 95% CIs, RMSE = Model root mean squared error. Results derived in job UC691102.

- 1.3 For each participant, a Z score relative to the Normative Sample ($Z_{NS}V6$) for each domain is calculated as the $Z_{V5}V6$ value minus that person's predicted mean from the above equation divided by the root-mean-squared error (RMSE).
- 1.4 A small percentage of participants have missing values for education or Visit 5 WRAT score. In these situations, when applying the prediction formula, education will be set to < HS and WRAT will be set to the median WRAT score according to

age (70-74, 75-79, 80+), race, and education level (< HS, HS, > HS). Predicted scores for Asian or Native American participants were calculated using the Caucasian-specific formula.

In the final step to determine Domain Failure, the Domain Z_{NS} V6 scores are compared relative to the cut-point of -1.5. A person with one or more domain scores < -1.5 is considered a Cognitive Domain Failure. In addition, a person with one or more domain scores = missing is considered a Cognitive Domain Failure.

3.1 MEMDOMPRES (V6 Memory Domain Present)

Format: 1=Yes, 0=No

Algorithm:

=1 if sum of (DWRPRES, LOGMEMPRES, INCLRNPRES)>0
=0 otherwise

Type: Numeric

Source variable(s): NCS3b, NCS7b, NCS7c, NCS15b, NCS15c, NCS4c

3.2 EFDOMPRES (V6 Executive Functioning Domain Present)

Format: 1=Yes, 0=No

Algorithm:

=1 if sum of (TMTAPRES, TMTBPRES, DSSPRES)>0
=0 otherwise

Type: Numeric

Source variable(s): NCS9b, NCS9c, NCS10b, NCS10c, NCS2b

3.3 LANGDOMPRES (V6 Language Domain Present)

Format: 1=Yes, 0=No

Algorithm:

=1 if sum of (SEMANTPRES, BNT30PRES, FASPRES)>0
=0 otherwise

Type: Numeric

Source variable(s): NCS6b, NCS12b, NCS5b, NCS5c, NCS5d

3.4 V6MEMDOM (V6 Memory Domain Score - For Stage 2 Selection Use)

Algorithm:

Domain factor score coefficients, DWRMD, LOGMEMMD, INCLRNMD provided by AGross, documented in Manual 17. V5 mean tests scores (MEANDWR, MEANLOGMEM, MEANINCLRN) are used in the calculations.

Temporary Variables

1) V6DWR: Use the score if it's present, else use 0 in the calculation
=NCS3b if DWRPRES=1
=0 otherwise

2) V6LOGMEM: Use the score if it's present, else use 0 in the calculation
=LOGMEMSCORE if LOGMEMPRES=1
=0 otherwise

3) V6INCLRN: Use the score if it's present, else use 0 in the calculation
=NCS4c if INCLRNPRES=1
=0 otherwise

Calculate if MEMDOMPRES=1:
=((V6DWR-MEANDWR)*DWRMD)
+((V6LOGMEM-MEANLOGMEM)*LOGMEMMD)
+((V6INCLRN-MEANINCLRN)*INCLRNMD)

Type: Numeric

Source variable(s): NCS3b, NCS4c, LOGMEMSCORE

3.5 V6EFDOM (V6 Executive Functioning Domain Score - For Stage 2 Selection Use)

Algorithm:

Domain factor score coefficients, TMTAEFD, TMTBEFD, DSSEFD provided by AGross, documented in Manual 17. V5 mean tests scores (MEANTMTA, MEANTMTB, MEANDSS) are used in the calculations.

Temporary Variables

1) V6TMTA: Use the score if it's present, else use 0 in the calculation
=TMTAScore if TMTAPRES=1
=0 otherwise

2) V6TMTB: Use the score if it's present, else use 0 in the calculation
=TMTBSCORE if TMTBPRES=1
=0 otherwise

3) V6DSS: Use the score if it's present, else use 0 in the calculation

=NCS2b if DSSPRES=1
=0 otherwise

Calculate if EFDOMPRES=1:
=((V6TMTA-MEANTMTA)*TMTAEFD)
+((V6TMTB-MEANTMTB)*TMTBEFD)
+((V6DSS-MEANDSS)*DSSEFD)

Type: Numeric

Source variable(s): TMTAScore, TMTAPRES, TMTBSCORE, TMTBPRES, NCS2b, DSSPRES, EFDOMPRES, V6TMTA, V6TMTB, V6DSS

3.6 V6LANGDOM (V6 Language Domain Score - For Stage 2 Selection Use)

Algorithm:

Domain factor score coefficients, SEMANTLD, BNT30LD, FASLD, provided by AGross, documented in Manual 17. V5 mean tests scores (MEANSEMANT, MEANBNT30, MEANFAS) are used in the calculations.

Calculate if LANGDOMPRES=1:
=((V6SEMANT-MEANSEMANT)*SEMANTLD)
+((V6BNT30-MEANBNT30)*BNT30LD)
+((V6FAS-MEANFAS)*FASLD)

Type: Numeric

Source variable(s): LANGDOMPRES, V6SEMANT, V6BNT30, V6FAS

3.7 PREDMEMDOM (V6 Predicted Domain Score - Memory)

Algorithm:

PREDMEMDOM_CORR= beta0_M + V5Age_beta_M * Age65V6 + (Education = 1) * Educ1_beta_M + (Education = 2) * Educ2_beta_M + WRAT_beta_M * WRAT45

When calculating predicted means, use education=1 for PPTs who have missing education; use the median race-specific AND age-specific AND education-specific WRAT45 score when WRAT is missing. This will allow all PPTs to have a predicted mean.

For age-specific, use agegrp=6, 7, and 8+9
For race-specific, use black 'B' or nonblack 'W'+ 'A'
For education-specific, use the EDUCATION variable

Type: Numeric

3.8 PREDEFDOM (V6 Predicted Domain Score – Executive Function)

Algorithm:

$$\text{PREDEFDOM_CORR} = \text{beta0_E} + \text{V5Age_beta_E} * \text{Age65V6} + (\text{Education} = 1) * \text{Educ1_beta_E} + (\text{Education} = 2) * \text{Educ2_beta_E} + \text{WRAT_beta_E} * \text{WRAT45}$$

When calculating predicted means, use education=1 for PPTs who have missing education; use the median race-specific AND age-specific AND education-specific WRAT45 score when WRAT is missing. This will allow all PPTs to have a predicted mean.

For age-specific, use agegrp=6, 7, and 8+9
For race-specific, use black 'B' or nonblack 'W'+ 'A'
For education-specific, use the EDUCATION variable

Type: Numeric

3.9 PREDLANGDOM (V6 Predicted Domain Score – Language)

Algorithm:

$$\text{PREDLANGDOM_CORR} = \text{beta0_L} + \text{V5Age_beta_L} * \text{Age65V6} + (\text{Education} = 1) * \text{Educ1_beta_L} + (\text{Education} = 2) * \text{Educ2_beta_L} + \text{WRAT_beta_L} * \text{WRAT45}$$

When calculating predicted means, use education=1 for PPTs who have missing education; use the median race-specific AND age-specific AND education-specific WRAT45 score when WRAT is missing. This will allow all PPTs to have a predicted mean.

For age-specific, use agegrp=6, 7, and 8+9
For race-specific, use black 'B' or nonblack 'W'+ 'A'
For education-specific, use the EDUCATION variable

Type: Numeric

Race- and domain- specific root mean square errors come from the regression models that determine race- and domain-specific predicted scores. Refer to the description at the beginning of this section and in Manual 17.

3.10 RMSE_M (Race-Specific Root Mean Square Error – Memory Domain)

3.11 RMSE_E (Race-Specific Root Mean Square Error – Executive Function Domain)

3.12 RMSE_L (Race-Specific Root Mean Square Error – Language)

3.13 V6MEMDOMZ (V6 Memory Domain Score)

Algorithm:

Calculate V6 memory domain z score if MEMDOMPRES=1

$$=(V6MEMDOM-PREDMEMDOM)/RMSE_M$$

Type: Numeric

Source variable(s): V6MEMDOM, PREDMEMDOM, RMSE_M

3.14 V6LANGDOMZ (V6 Language Domain Score)

Algorithm:

Calculate V6 language domain z score if LANGDOMPRES=1

$$=(V6LANGDOM-PREDLANGDOM)/RMSE_L$$

Type: Numeric

Source variable(s): V6LANGDOM, PREDLANGDOM, RMSE_L

3.15 V6EFDOMZ (V6 Executive Functioning Domain Score)

Algorithm:

Calculate V6 executive function domain z score if EFDOMPRES=1

$$=(V6EFDOM-PREDEDDOM)/RMSE_E$$

Type: Numeric

Source variable(s): V6EFDOM, PREDEDDOM, RMSE_E

4. DECLINE VARIABLES

4.1 YRSV5V6 (V6 Years between V5 and V6)

Time in years between V5 exam and V6 exam. Used for calculating annual rate of cognitive decline.

Algorithm:

If V6DATE61 is nonmissing then calculate YRSV5V6.

YRSV5V6=the years between V5 and V6 calculated as the number of days between V5 and V6 divided by 365.25

$$=(V6DATE61-V5DATE51)/365.25$$

V6DATE61 is the V6 visit date and V5DATE51 is the V5 visit date

Type: Numeric

Source variable(s): [DERIVE61]V6DATE61, [DERIVE52] V5DATE51

4.2 GLOBPRES (V6 General Cognitive Performance Present)

Format: 1=Yes, 0=No

Algorithm:

=1 if sum of (DWRPRES, LOGMEMPRES, INCLRNPRES, TMTAPRES, TMTBPRES, DSSPRES, DSBPRES, SEMANTPRES, BNT30PRES, FASPRES) > 0
=0 otherwise

Type: Numeric

Source variable(s): DWRPRES, LOGMEMPRES, INCLRNPRES, TMTAPRES, TMTBPRES, DSSPRES, DSBPRES, SEMANTPRES, BNT30PRES, FASPRES

4.3 V6GCP (V6 Global Cognition Score - For Stage 2 Selection Use)

Algorithm:

Decline factor score coefficients, DWRGCP, LOGMEMGCP, INCLRNGCP, TMTAGCP, TMTBGCP, DSSGCP, SEMANTGCP, BNT30GCP, FASGCP, DSBGCP, provided by AGross, documented in Manual 17. V5 mean tests scores (MEANDWR, MEANLOGMEM, MEANINCLRN, MEANTMTA, MEANTMTB, MEANDSS, MEANSEMANT, MEANBNT30, MEANFAS, MEANDSB) are used in the calculations.

Temporary Variables

1) V6DWR: Use the score if it's present, else use 0 in the calculation
=NCS3b if DWRPRES=1
=0 otherwise

2) V6LOGMEM: Use the score if it's present, else use 0 in the calculation
=LOGMEMSCORE if LOGMEMPRES=1
=0 otherwise

3) V6INCLRN: Use the score if it's present, else use 0 in the calculation
=NCS4c if INCLRNPRES=1
=0 otherwise

4) V6TMTA: Use the score if it's present, else use 0 in the calculation
=TMTAScore if TMTAPRES=1
=0 otherwise

5) V6TMTB: Use the score if it's present, else use 0 in the calculation

=TMTBSCORE if TMTBPRES=1
=0 otherwise

6) V6DSS: Use the score if it's present, else use 0 in the calculation
=NCS2b if DSSPRES=1
=0 otherwise

7) V6SEMANT: Use the score if it's present, else use 0 in the calculation
=NCS6b if SEMANTPRES=1
=0 otherwise

8) V6BNT30: Use the score if it's present, else use 0 in the calculation
=NCS12b if BNT30PRES=1
=0 otherwise

9) V6FAS: Use the score if it's present, else use 0 in the calculation
=NCS5ederv if FASPRES=1
=0 otherwise

10) V6DSB: Use the score if it's present, else use 0 in the calculation
=NCS8b if DSBPRES=1
=0 otherwise

$$\begin{aligned} &= ((V6DWR - MEANDWR) * DWRGCP) \\ &+ ((V6LOGMEM - MEANLOGMEM) * LOGMEMGCP) \\ &+ ((V6INCLRN - MEANINCLRN) * INCLRNGCP) \\ &+ ((V6TMTA - MEANTMTA) * TMTAGCP) \\ &+ ((V6TMTB - MEANTMTB) * TMTBGCP) \\ &+ ((V6DSS - MEANDSS) * DSSGCP) \\ &+ ((V6SEMANT - MEANSEMANT) * SEMANTGCP) \\ &+ ((V6BNT30 - MEANBNT30) * BNT30GCP) \\ &+ ((V6FAS - MEANFAS) * FASGCP) \\ &+ ((V6DSB - MEANDSB) * DSBGCP) \end{aligned}$$

Type: Numeric

Source variable(s): NCS3b, DWRPRES, LOGMEMSCORE, LOGMEMPRES, NCS4c, INCLRNPRES, TMTAScore, TMTAPRES, TMTBSCORE, TMTBPRES, NCS2b, DSSPRES, NCS6b, SEMANTPRES, NCS12b, BNT30PRES, NCS5b, NCS5c, NCS5d, FASPRES, NCS8b, DSBPRES

4.4 GCPNOV6FACT (V6 Global Cognition Not Calculated - no coefficients)

Algorithm:

=1 if V6GCP is not calculated because there is no matching coefficient row in the coefficients supplied by AGross

=0 if V6GCP is able to be calculated

Type: Numeric

Source variable(s): V6GCP

4.5 V5V6DECLINE (V6 Yearly Cognitive Decline (SD) Between V5 and V6)

Algorithm:

Calculate V5V6DECLINE if V6GCP (or GCPBLOCKA61 for BLOCKAONLY61=1), V5GCP, and YRSV5V6 are all nonmissing.

=(V6GCP-V5GCP)/YRSV5V6 for BLOCKAONLY61=0

OR

=(GCPBLOCKA61- V5GCP)/YRSV5V6 for BLOCKAONLY61=1

Type: Numeric

Source variable(s): V6GCP, GCPBLOCKA61, BLOCKAONLY61, V5GCP, YRSV5V6

5. SELECTION VARIABLES

5.1 MEMDOMFAIL (V6 Memory Domain Failure - Failed or Domain Missing)

Format: Y=Yes
N=No

Algorithm:

= 'Y' If . < V6MEMDOMZ < -1.5 OR MEMDOMPRES=0

= 'N' otherwise

Type: Character

Source variable(s): V6MEMDOMZ, MEMDOMPRES

5.2 LANGDOMFAIL (V6 Language Domain Failure - Failed or Domain Missing)

Format: Y=Yes
N=No

Algorithm:

= 'Y' If . < V6LANGDOMZ < -1.5 OR LANGDOMPRES=0

= 'N' otherwise

Type: Character

Source variable(s): V6LANGDOMZ, LANGDOMPRES

5.3 EFDOMFAIL (V6 Executive Functioning Domain Failure - Failed or Domain Missing)

Format: Y=Yes
N=No

Algorithm:

= 'Y' If $. < V6EFDOMZ < -1.5$ OR $EFDOMPRES=0$
= 'N' otherwise

Type: Character

Source variable(s): V6EFDOMZ, EFDOMPRES

5.4 SUMFAILEDDOM (V6 Sum of Failed Cognitive Domains)

Algorithm:

If $SUM((V6MEMDOMZ>.), (V6LANGDOMZ>.), (V6EFDOMZ>.)) \geq 2$
then $sumfaileddom = SUM((.<V6MEMDOMZ < -1.5), (.<V6LANGDOMZ < -1.5), (.<V6EFDOMZ < -1.5))$;

Type: Numeric

Source variable(s): V6MEMDOMZ, V6LANGDOMZ, V6EFDOMZ

5.5 COGFAILURE (V6 Cognitive Decline - 1 or more failed domains or Missing)

Format: Y=Yes
N=No

= 'Y' If $MEMDOMFAIL='Y'$ OR $LANGDOMFAIL='Y'$ OR $EFDOMFAIL='Y'$
= 'N' otherwise

Type: Character; length=\$1.

Source variable(s): MEMDOMFAIL, LANGDOMFAIL, EFDOMFAIL

5.6 COGDECLINE (V6 Cognitive Decline Status - Significant or Missing)

Significant COGFAILURE is indicated when the yearly global cognitive decline exceeds 0.055 SD units/year.

Format: Y=Yes
N=No

Algorithm:

```
If V5V6DECLINE and V5BAV6DECLINE are all missing then do;  
  DECLINEINDICATOR='MI';  
  COGDECLINE ='Y';  
End;
```

```
Else if V5V6DECLINE>NULL then do;  
  DECLINEINDICATOR='V5';
```

```
  If V5V6DECLINE < DECLINECUTPT then COGDECLINE='Y';  
  Else COGDECLINE='N';  
End;
```

```
Else if V5BAV6DECLINE>NULL then do;  
  DECLINEINDICATOR='5A';  
  If V5BAV6DECLINE < DECLINECUTPT then COGDECLINE='Y';  
  Else COGDECLINE='N';  
End;
```

Type: Character; length=\$1.

Source variable(s): V5V6DECLINE, V5BAV6DECLINE, DECLINECUTPT

5.7 STG2EXEMPT (V6 PPT Stage 2 Exempt Status)

Format: Y=Yes
N=No

Algorithm:

```
= 'Y' if ((V6IN64='Y') /*V5 dementia dx*/  
  OR (PRORATEDMMSE61 < 21 if V51 is NOT B)  
  OR (PRORATEDMMSE61 < 19 if V51=B)  
= 'N' otherwise
```

Type: Character

Source variable(s): V6IN64, PRORATEDMMSE61, V51 (race)

5.8 SELECTEDSTG2 (V6 Selected to Stage 2)

Format: Y=Yes
N=No

A participant is selected to stage 2 data collection when they meet the criteria for COGFAILURE and COGDECLINE. A participant is not selected to stage 2 data collection when they have been classified with dementia at V5 OR their pro-rated MMSE score is below the race-specific cutpoint OR COGFAILURE='N' or COGDECLINE='N'.

Algorithm:

= 'Y' IF COGFAILURE='Y' AND COGDECLINE='Y'
= 'N' If V6IN64='Y' OR COGDIAG51='D'
 OR PRORATEDMMSE61 < 21 if V51 is NOT B
 OR PRORATEDMMSE61 < 19 if V51=B
 OR COGFAILURE='N' OR COGDECLINE='N'

Type: Numeric

Source variable(s): V6IN64, COGDIAG51, PRORATEDMMSE61, COGFAILURE,
COGDECLINE, REVIEWERSYND61, V51