

Atherosclerosis Risk in Communities Study

Cohort Exam Visit 9 NCS STATUS91_PARTIAL_240605_np Derived Variable Dictionary

June 9, 2024

ARIC STATUS91_PARTIAL_240605_np Derived Variable Dictionary

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NEW OR CHANGED FROM PREVIOUS DISTRIBUTION

This table describes the changes to the last published STATUS91_PARTIAL_&rt_np 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

1. OVERVIEW

The CC is delivering a partial version of STATUS91 longitudinal dataset (STATUS91_PARTIAL_240605_np) that includes the visit-specific neurocognitive variables for visits 5 through 9: COGDIAG, ALGDXSTRATUM, PRORATEDMMSE, and the updated level 1 dementia variable, DEMDXL1_91 and its associated time from ARIC enrollment. The dataset also includes the incident, self-report disease variables typically included in the STATUS datasets. These variables are derived using ARIC follow-up data.

The STATUS91_PARTIAL_240605_np dataset has 15,792 records, one for each ARIC participant and the dataset has been updated to remove all personal health information denoted by the _np suffix. The purpose of this dataset is to provide to ARIC collaborators widely used, verified derived variables for the entire cohort. The dataset naming conventions are as follows: The dataset name retains the dataset creation date (ex: STATUS91_PARTIAL_240605_np) until the dataset is considered final, frozen. After a dataset is frozen, the creation date is dropped from the dataset name (ex: STATUS91). The first digit in the dataset name refers to the current visit number. The second digit in the dataset name is incremented when the current dataset undergoes significant changes. The variable naming convention is similar: across-visit variables have identical names except for the second to last digit in the variable name, which represents the visit number (ex: GENDER71 at Visit 7 vs. GENDER81 at Visit 8). The last digit in the variable name identifies the definition version of a variable.

STATUS variables are derived from the data collected from the previous and current visits, ARIC cohort surveillance, and ARIC follow-up. STATUS91_np will be final, frozen after the surveillance datasets are complete for events in 2022.

2. ADMINISTRATIVE

2.1 SUBJECTID (ARIC Subject ID (CIR))

Type: Character; length: \$7.

2.2 ID (ARIC ID – same as Subject ID)

Type: Character; length: \$7.

2.3 CENTER (Field Center)

Description: Character variable with four possible values derived from the

enrollment site:

F: Forsyth County, North Carolina J: The city of Jackson, Mississippi M: Selected northwestern suburbs of Minneapolis, Minnesota

W: Washington County, Maryland

Type: Character; length: \$1.

Algorithm: CENTER=First letter of the subject ID

Source variable(s): SUBJECTID

3. ARIC VISIT COMPLETION AND STUDY STATUS VARIABLES

3.1 DATEOFDEATH_FollowUpDays (Days of follow up from visit 1 to Date of Death)

Description: Numeric variable indicating the days of follow up from visit 1 to date of

death compiled from previous visit dates and ARIC surveillance data.

Type: Numeric

Algorithm: If [C21DTHA1] date of death>NULL then

DATEOFDEATH FollowUpDays is the number of days between visit 1

and [C21DTHA1] date of death.

Else if [C21HRMA1] date of discharge or death>NULL and

HRAA17="D" then DATEOFDEATH_FollowUpDays is the number of days between visit 1 and [C21HRMA1] date of discharge or death.

Else if ([C21CELB1] date of discharge or death>NULL and

CELB06='Y') then DATEOFDEATH_FollowUpDays is the number of days between visit 1 and [C21CELB1] date of discharge or death.

Else if NULL<[ADER] date of death <="30NOV2022"d then

DATEOFDEATH_FollowUpDays is the number of days between visit 1

and [ADER] date of death.

Else DATEOFDEATH_FollowUpDays =NULL;

Source variable(s): visit 1 date, [C21DTHA1] date of death, [C21HRMA1] date of

discharge or death, HRAA17, [C21CELB1] date of discharge or death,

CELB06, [ADER] date of death

3.2 STATUSDATE21_FollowUpDays (Days of follow up from visit 1 to either death date, date of visit 2 exam, OR 05Feb1990)

<u>Description</u>: Numeric variable with status as of visit 2. Value is the days of follow

up from visit 1 to one of the following: 1) date of completion of visit 2, 2) date of death if dead by the start of visit 2, or 3) the date that visit 2

began (05Feb1990).

Type: Numeric

Algorithm: If visit 2 date is not missing then STATUSDATE21_FollowUpDays is

the number of days between visit 1 and visit 2.

Else if KNWNDEADBYVISIT21=1 then

STATUSDATE21_FollowUpDays is the number of days between visit

1 and date of death.

Else STATUSDATE21_FollowUpDays is the number of days between

visit 1 and the date that visit 2 began.

Source variable(s): visit 1 date, visit 2 date, KNWNDEADBYVISIT21, date of death

3.3 STATUSDATE31_FollowUpDays (Days of follow up from visit 1 to either death date, date of visit 3 exam, OR 16Mar1993)

Description: Numeric variable with status as of visit 3. Value is the days of follow

up from visit 1 to one of the following: 1) date of completion of visit 3, 2) date of death if dead by the start of visit 3, or 3) the date that visit 3

began (16Mar1993).

Type: Numeric

Algorithm: If visit 3 date is not missing then STATUSDATE31_FollowUpDays is

the number of days between visit 1 and visit 3.

Else if KNWNDEADBYVISIT31=1 then

STATUSDATE31_FollowUpDays is the number of days between visit

1 and date of death.

Else STATUSDATE31_FollowUpDays is the number of days between

visit 1 and the date that visit 3 began.

Source variable(s): visit 1 date, visit 3 date, KNWNDEADBYVISIT31, date of death

3.4 STATUSDATE41_FollowUpDays (Days of follow up from either death date, date of visit 4 exam, OR 01Feb1996)

Description: Numeric variable with status as of visit 4. Value is the days of follow

up from visit 1 to one of the following: 1) date of completion of visit 4, 2) date of death if dead by the start of visit 4, or 3) the date that visit 4

began (01Feb1996).

Type: Numeric

Algorithm: If visit 4 date is not missing then STATUSDATE41_FollowUpDays is

the number of days between visit 1 and visit 4.

Else if KNWNDEADBYVISIT41=1 then

STATUSDATE41_FollowUpDays is the number of days between visit

1 and date of death.

Else STATUSDATE41_FollowUpDays is the number of days between

visit 1 and the date that visit 4 began.

Source variable(s): visit 1 date, visit 4 date, KNWNDEADBYVISIT41, date of death

3.5 STATUSDATE51_FollowUpDays (Days of follow up from either death date, date of visit 5 exam, OR 01Jun2011)

<u>Description</u>: Numeric variable with status as of visit 5. Value is the days of follow

up from visit 1 to one of the following: 1) date of completion of visit 5, 2) date of death if dead by the start of visit 5, or 3) the date that visit 5

began (01Jun2011).

Type: Numeric

Algorithm: If visit 5 date is not missing then STATUSDATE51_FollowUpDays is

the number of days between visit 1 and visit 5.

Else if KNWNDEADBYVISIT51=1 then

STATUSDATE51_FollowUpDays is the number of days between visit

1 and date of death.

Else STATUSDATE51 FollowUpDays is the number of days between

visit 1 and the date that visit 5 began.

Source variable(s): visit 1 date, visit 5 date, KNWNDEADBYVISIT51, date of death

3.6 STATUSDATE61_FollowUpDays (Days of follow up from visit 1 to either death date, date of visit 6 exam, OR 15Jun2016)

Description: Numeric variable with status as of visit 6. Value is the days of follow

up from visit 1 to one of the following: 1) date of completion of visit 6, 2) date of death if dead by the start of visit 6, or 3) the date that visit 6

began (15Jun2016).

Type: Numeric

Algorithm: If visit 6 date is not missing then STATUSDATE61_FollowUpDays is

the number of days between visit 1 and visit 6.

Else if KNWNDEADBYVISIT61=1 then

STATUSDATE61 FollowUpDays is the number of days between visit

1 and date of death.

Else STATUSDATE61 FollowUpDays is the number of days between

visit 1 and the date that visit 6 began.

Source variable(s): visit 1 date, visit 6 date, KNWNDEADBYVISIT61, date of death

3.7 STATUSDATE71_FollowUpDays (Days of follow up from visit 1 to either death date, date of visit 7 exam, OR 01Feb2018)

<u>Description</u>: Numeric variable with status as of visit 7. Value is the days of follow

up from visit 1 to one of the following: 1) date of completion of visit 7,

2) date of death if dead by the start of visit 7, or 3) the date that visit 7 began (01Feb2018).

Type: Numeric

Algorithm: If visit 7 date is not missing then STATUSDATE71_FollowUpDays is

the number of days between visit 1 and visit 7.

Else if KNWNDEADBYVISIT71=1 then

STATUSDATE71_FollowUpDays is the number of days between visit

1 and date of death.

Else STATUSDATE71_FollowUpDays is the number of days between

visit 1 and the date that visit 7 began.

Source variable(s): visit 1 date, visit 7 date, KNWNDEADBYVISIT71, date of death

3.8 STATUSDATE81_FollowUpDays (Days of follow up from visit 1 to either death date, date of visit 8 exam, OR 13Jan2020)

<u>Description</u>: Numeric variable with status as of visit 8. Value is the days of follow

up from visit 1 to one of the following: 1) date of completion of visit 8, 2) date of death if dead by the start of visit 8, or 3) the date that visit 8

began (13Jan2020).

Type: Numeric

Algorithm: If visit 8 date is not missing then STATUSDATE81 FollowUpDays is

the number of days between visit 1 and visit 8.

Else if KNWNDEADBYVISIT81=1 then

STATUSDATE81_FollowUpDays is the number of days between visit

1 and date of death.

Else STATUSDATE81 FollowUpDays is the number of days between

visit 1 and the date that visit 8 began.

Source variable(s): visit 1 date, visit 8 date, KNWNDEADBYVISIT81, date of death

3.9 STATUSDATE8T1_FollowUpDays (Days of follow up from visit 1 to either death date, date of visit 8T exam, OR 15Jun2020)

<u>Description</u>: Numeric variable with status as of visit 8 telephone. Value is the days

of follow up from visit 1 to one of the following: 1) date of completion of visit 8T, 2) date of death if dead by the start of visit 8T, or 3) the date

that visit 8T began (15Jun2020).

Type: Numeric

Algorithm: If visit 8 telephone date is not missing then

STATUSDATE8T1_FollowUpDays is the number of days between

visit 1 and visit 8 telephone.

Else if KNWNDEADBYVISIT8T1=1 then

STATUSDATE8T1_FollowUpDays is the number of days between

visit 1 and date of death.

Else STATUSDATE8T1_FollowUpDays is the number of days between visit 1 and the date that visit 8 telephone began.

Source variable(s): visit 1 date, visit 8 telephone date, KNWNDEADBYVISIT8T1, date of

death

3.10 STATUSDATE91_FollowUpDays (Days of follow up from visit 1 to either death date, date of visit 9 exam, OR 01Jun2021)

Description: Numeric variable with status as of visit 9. Value is the days of follow

up from visit 1 to one of the following: 1) date of completion of visit 9, 2) date of death if dead by the start of visit 9, or 3) the date that visit 9

began (01Jun2021).

Type: Numeric

Algorithm: If visit 9 date is not missing then STATUSDATE91_FollowUpDays is

the number of days between visit 1 and visit 9.

Else if NULL<date of death<=the date that visit 9 began then

STATUSDATE91 FollowUpDays is the number of days between visit

1 and date of death.

Else STATUSDATE91_FollowUpDays is the number of days between

visit 1 and the date that visit 9 began.

Source variable(s): visit 1 date, visit 9 date, date of death

3.11 LASTFUINTERVIEWDATE_FollowUpDays (Days of follow up from visit 1 to date of last completed follow-up interview by 30NOV2022)

Description: Numeric variable that documents the days of follow up from visit 1 to

the date of the participant's last completed follow-up interview where an actual contact was made, prior to end of visit 9 (30NOV2022).

Type: Numeric

Algorithm: LASTFUINTERVIEWDATE_FollowUpDays is the number of days

between visit 1 and the max status date in the composite follow-up dataset among the records for a single ID where AFUcomp2_A indicates that the interview was accomplished (AFUcomp2_a in ('A',

'C', 'D')) and the date preceded November 30, 2022.

Source variable(s): follow-up status date, AFUcomp2_A

4. PHYSICAL VARIABLES AND INDICATORS

4.1 AGENATMENOPAUSEF (Age (years) at natural menopause)

<u>Description:</u> Numeric variable indicating age in years at natural menopause.

Type: Numeric

Algorithm: AGENATMENOPAUSEF=AGENATMENOPAUSEF [STATUS51]

<u>Source variable(s):</u> AGENATMENOPAUSEF (from STATUS51)

Note: As of 5/17/2024, this variable has been moved to DERIVE91

4.2 AGESRGMENOPAUSEF (Age (years) at surgical menopause)

<u>Description:</u> Numeric variable indicating age in years at surgical menopause.

Type: Numeric

Algorithm: AGESRGMENOPAUSEF=AGESRGMENOPAUSEF [STATUS51]

Source variable(s): AGESRGMENOPAUSEF (from STATUS51)

Note: As of 5/17/2024, this variable has been moved to DERIVE91

5. DISEASE INCIDENCE

5.1 INCSELFREPHBP91 (Self-Report Incident High Blood Pressure by the end of Visit 9)

<u>Description:</u> Numeric indicator variable reporting if the participant self-reported high

blood pressure by November 30, 2022. May be used in conjunction

with INCSELFREPHBP DATE91.

Format: 1=Yes, 0=No

Type: Numeric

Algorithm: If MCU1=NULL then INCSELFREPHBP91=NULL.

Else if NULL<= MCU1a<='30NOV2022'd then do; If MCU1='Y' then INCSELFREPHBP91=1 Else if MCU1='N' then INCSELFREPHBP91=0

End;

Else if MCU1a>'30NOV2022'd then INCSELFREPHBP91=0;

Source variable(s): [MCU_&mrt] MCU1, [MCU_&mrt] MCU1a

5.2 INCSELFREPHBP_DATE91_FUdays (Days of follow up from visit 1 to Self-Report Incident High Blood Pressure Date or Earliest Date from Last Follow-up, Death, or End of V9 Data Collection)

<u>Description:</u> Numeric variable with the days of follow up from visit 1 to date the first

time a participant self-reported high blood pressure (through November 30, 2022); if participant never self-reported high blood pressure (INCSELFREPHBP91=0), then the value is the days of follow up from visit 1 to one of the following: 1) the Medical Conditions Update (MCU) form date, 2) date of death, or 3) November 30, 2022, whichever is earlier. The variable is missing if there are no records for

this ID.

Type: Numeric

Algorithm: if INCSELFREPHBP91=1 then INCSELFREPHBP_DATE91_FUdays

is the number of days between visit 1 and self-report incident high

blood pressure date

Else if INCSELFREPHBP91=0 then

INCSELFREPHBP_DATE91_FUdays is the number of days between

visit 1 and min(MCU date, date of death, "30NOV2022"d)

Else INCSELFREPHBP_DATE91_FUdays = NULL

Source variable(s): visit 1 date, MCU date, self-report incident high blood pressure date,

date of death, INCSELFREPHBP91

5.3 INCSELFREPDM91 (Self-Report Diabetes Mellitus by the End of Visit 9)

Description: Numeric indicator variable reporting if the participant self-reported

diabetes mellitus by November 30, 2022. May be used in conjunction

with INCSELFREPDM_DATE91.

Format: 1=Yes, 0=No

Type: Numeric

Algorithm: If MCU2=NULL then INCSELFREPDM91=NULL.

Else if NULL<= MCU2a<='30NOV2022'd then do; If MCU2='Y' then INCSELFREPDM91=1

Else if MCU2='N' then INCSELFREPDM91=0

End:

Else if MCU2a>'30NOV2022'd then INCSELFREPDM91=0:

Source variable(s): [MCU_&mrt] MCU2, [MCU_&mrt] MCU2a

5.4 INCSELFREPDM_DATE91_FUdays (Days of follow up from visit 1 to Self-Report Diabetes Mellitus Date or Earliest Date from Last Follow-up, Death, or End of V9 Data Collection)

Description: Numeric variable with the days of follow up from visit 1 to date the first

time a participant self-reported diabetes mellitus (through November

30, 2022); if participant never self-reported diabetes mellitus

(INCSELFREPDM91=0), then the value is the days of follow up from visit 1 to one of the following: 1) the Medical Conditions Update (MCU) form date, 2) date of death, or 3) November 30, 2022, whichever is earlier. The variable is missing if there are no records for this ID.

Type: Numeric

Algorithm: if INCSELFREPDM91=1 then

INCSELFREPDM_DATE91_FUdays is the number of days between

visit 1 and self-report incident diabetes mellitus date

Else if INCSELFREPDM91=0 then

INCSELFREPDM_DATE91_FUdays is the number of days between

visit 1 and min(MCU date, date of death, "30NOV2022"d)

Else INCSELFREPDM_DATE91_FUdays = NULL

Source variable(s): visit 1 date, MCU date, self-report incident diabetes mellitus date, date

of death, INCSELFREPDM91

5.5 INCSELFREPCLD91 (Self-Report Incident PVD or Claudication by End of Visit 9)

Description: Numeric variable reporting if the participant self-reported incident PVD

or claudication by November 30, 2022. May be used in conjunction

with INCSELFREPCLD_DATE91.

Format: 1=Yes, 0=No,

Type: Numeric

Algorithm: If MCU5=NULL then INCSELFREPCLD91=NULL.

Else if NULL<= MCU5a<='30NOV2022'd then do; If MCU5='Y' then INCSELFREPCLD91=1 Else if MCU5='N' then INCSELFREPCLD91=0

End:

Else if MCU5a>'30NOV2022'd then INCSELFREPCLD91=0:

Source variable(s): [MCU_&mrt] MCU5, [MCU_&mrt] MCU5a

5.6 INCSELFREPCLD_DATE91_FUdays (Days of follow up from visit 1 to Self-Report Incident PVD or Claudication Date or Earliest Date from Last Follow-up, Death, or End of V9 Data Collection)

<u>Description:</u> Numeric variable with the days of follow up from visit 1 to the date the

first time a participant self-reported incident PVD or claudication (through November 30, 2022); if participant never self-reported

incident PVD or claudication (INCSELFREPCLD91=0), then the value

is the days of follow up from visit 1 to one of the following: 1) the

Medical Conditions Update (MCU) form date, 2) date of death, or 3) November 30, 2022, whichever is earlier. The variable is missing if

there are no records for this ID.

Type: Numeric

Algorithm: if INCSELFREPCLD91=1 then

INCSELFREPCLD_DATE91_FUdays is the number of days between

visit 1 and self-report incident PVD or claudication date

Else if INCSELFREPCLD91=0 then

INCSELFREPCLD_DATE91_FUdays is the number of days between

visit 1 and min(MCU date, date of death, "30NOV2022"d)

Else INCSELFREPCLD_DATE91_FUdays = NULL

Source variable(s): visit 1 date, MCU date, self-report incident PVD or claudication date,

date of death, INCSELFREPCLD91

5.7 INCSELFREPAST91 (Self-Report Asthma by the End of Visit 9)

<u>Description:</u> Numeric variable reporting if the participant self-reported asthma by

November 30, 2022. May be used in conjunction with

INCSELFREPAST DATE91.

Format: 1=Yes, 0=No

Type: Numeric

Algorithm: If MCU4=NULL then INCSELFREPAST91=NULL.

Else if NULL<= MCU4a<='30NOV2022'd then do; If MCU4='Y' then INCSELFREPAST91=1

Else if MCU4='N' then INCSELFREPAST91=0

End:

Else if MCU4a>'30NOV2022'd then INCSELFREPAST91=0:

Source variable(s): [MCU_&mrt] MCU4, [MCU_&mrt] MCU4a

5.8 INCSELFREPAST_DATE91_FUdays (Days of follow up from visit 1 to Self-Report Asthma Date or Earliest Date from Last Follow-up, Death, or End of V9 Data Collection)

Description: Numeric variable with the days of follow up from visit 1 to the date the

first time a participant self-reported asthma (through November 30,

2022); if participant never self-reported asthma

(INCSELFREPAST91=0), then the value is the days of follow up from visit 1 to one of the following: 1) the Medical Conditions Update (MCU) form date, 2) date of death, or 3) November 30, 2022, whichever is earlier. The variable is missing if there are no records for this ID.

Type: Numeric

Algorithm: if INCSELFREPAST91=1 then

INCSELFREPAST_DATE91_FUdays is the number of days between

visit 1 and self-report incident asthma date

Else if INCSELFREPAST91=0 then

INCSELFREPAST DATE91 FUdays is the number of days between

visit 1 and min(MCU date, date of death, "30NOV2022"d)

Else INCSELFREPAST_DATE91_FUdays = NULL

Source variable(s): visit 1 date, MCU date, self-report incident asthma date, date of death,

INCSELFREPAST91

5.9 INCSELFREPLUNG91 (Self-Report Chronic Lung Disease by the End of Visit 9)

Description: Numeric variable reporting if the participant self-reported chronic lung

disease by November 30, 2022. May be used in conjunction with

INCSELFREPLUNG DATE91.

Format: 1=Yes, 0=No

Type: Numeric

Algorithm: If MCU3=NULL then INCSELFREPLUNG91=NULL.

Else if NULL<= MCU3a<='30NOV2022'd then do;

If MCU3='Y' then INCSELFREPLUNG91=1

Else if MCU3='N' then INCSELFREPLUNG91=0

End:

Else if MCU3a>'30NOV2022'd then INCSELFREPLUNG91=0;

Source variable(s): [MCU_&mrt] MCU3, [MCU_&mrt] MCU3a

5.10 INCSELFREPLUNG DATE91 FUdays (Days of follow up from visit 1 to Self-Report Chronic Lung Disease Date or Earliest Date from Last Follow-up, Death, or End of V9 Data Collection)

Numeric variable with the days of follow up from visit 1 to the date the Description:

first time a participant self-reported chronic lung disease (through November 30, 2022); if participant never self-reported chronic lung disease (INCSELFREPLUNG91=0), then the value is the days of follow up from visit 1 to one of the following: 1) the Medical Conditions Update (MCU) form date, 2) date of death, or 3) November 30, 2022, whichever is earlier. The variable is missing if there are no records for

this ID.

Type: Numeric

if INCSELFREPLUNG91=1 then Algorithm:

> INCSELFREPLUNG_DATE91_FUdays is the number of days between visit 1 and self-report incident chronic lung disease date

Else if INCSELFREPLUNG91=0 then

INCSELFREPLUNG DATE91 FUdays is the number of days between visit 1 and min(MCU date, date of death, "30NOV2022"d)

Else INCSELFREPLUNG_DATE91_FUdays = NULL

Source variable(s): visit 1 date, MCU date, self-report incident chronic lung disease date,

date of death, INCSELFREPLUNG91

5.11 **INCSELFREPHF91 (Self-Report Heart Failure by the End of Visit 9)**

Description: Numeric variable reporting if the participant self-reported heart failure

by November 30, 2022. May be used in conjunction with

INCSELFREPHF DATE91.

Format: 1=Yes, 0=No

Type: Numeric

Algorithm: If SRHFail=NULL then INCSELFREPHF91=NULL;

Else if NULL <= MCU7a<='30NOV2022'd then do;

if SRHFail=1 then INCSELFREPHF91=1

Else if SRHFail=0 then INCSELFREPHF91=0

End:

Else if MCU7a>'30NOV2022'd then INCSELFREPHF91=0:

Source variable(s): [MCU_&mrt] MCU6, [MCU_&mrt] MCU7, [MCU_&mrt] MCU7a

5.12 INCSELFREPHF_DATE91_FUdays (Days of follow up from visit 1 to Self-Report Heart Failure Date or Earliest Date from Last Follow-up, Death, or End of V9 Data Collection)

Description: Numeric variable with the days of follow up from visit 1 to the date the

first time a participant self-reported heart failure (through November

30, 2022); if participant never self-reported heart failure

(INCSELFREPHF91=0), then the value is the days of follow up from visit 1 to one of the following: 1) the Medical Conditions Update (MCU) form date, 2) date of death, or 3) November 30, 2022, whichever is earlier. The variable is missing if there are no records for this ID.

Type: Numeric

Algorithm: if INCSELFREPHF91=1 then

INCSELFREPHF_DATE91_FUdays is the number of days between

visit 1 and the self-report incident heart failure date

Else if INCSELFREPHF91=0 then

INCSELFREPHF_DATE91_FUdays is the number of days between

visit 1 and min(MCU date, date of death, "30NOV2022"d)

Else INCSELFREPHF DATE91 FUdays = NULL

Source variable(s): visit 1 date, MCU date, self-report incident heart failure date, date of

death, INCSELFREPHF91

5.13 INCSELFREPAF91 (Self-Report Atrial Fibrillation by the End of Visit 9)

<u>Description:</u> Numeric variable reporting if the participant self-reported atrial

fibrillation by November 30, 2022. May be used in conjunction with

INCSELFREPAF_DATE91.

Format: 1=Yes, 0=No

Type: Numeric

Algorithm: If MCU12=NULL then INCSELFREPAF91=NULL.

Else if NULL<= MCU12a<='30NOV2022'd then do;

If MCU12='Y' then INCSELFREPAF91=1 Else if MCU12='N' then INCSELFREPAF91=0

End:

Else if MCU12a>'30NOV2022'd then INCSELFREPAF91=0;

Source variable(s): [MCU_&mrt] MCU12, [MCU_&mrt] MCU12a

5.14 INCSELFREPAF_DATE91_FUdays (Days of follow up from visit 1 to Self-Report Atrial Fibrillation Date or Earliest Date from Last Follow-up, Death, or End of V9 Data Collection)

Description: Numeric variable with the days of follow up from visit 1 to the date the

first time a participant self-reported atrial fibrillation (through

November 30, 2022); if participant never self-reported atrial fibrillation (INCSELFREPAF91=0), then the value is the days of follow up from visit 1 to one of the following: 1) the Medical Conditions Update (MCU) form date, 2) date of death, or 3) November 30, 2022, whichever is earlier. The variable is missing if there are no records for this ID.

Type: Numeric

Algorithm: if INCSELFREPAF91=1 then

INCSELFREPAF_DATE91_FUdays is the number of days between

visit 1 and self-report incident atrial fibrillation date

Else if INCSELFREPAF91=0 then

INCSELFREPAF_DATE91_FUdays is the number of days between

visit 1 and min(MCU date, date of death, "30NOV2022"d)

Else INCSELFREPAF_DATE91_FUdays = NULL

Source variable(s): visit 1 date, MCU date, self-report incident atrial fibrillation date, date

of death, INCSELFREPAF91

5.15 INCSELFREPSTK91 (Self-Report Stroke by the End of Visit 9)

Description: Numeric variable reporting if the participant self-reported stroke by

November 30, 2022. May be used in conjunction with

INCSELFREPSTK DATE91.

Format: 1=Yes, 0=No, .T=Missing

Type: Numeric

Algorithm: INCSELFREPSTK91=1 if any of the records for a single ID have a Y

value for either AFUcomp29_A or AFUcomp8b_K and

NULL<afucomp1_A<='30NOV2022'd

INCSELFREPSTK91=0 if AFUcomp29_A, AFUcomp8b_K are

(N,NULL) or (NULL,N) respectively in all records for a single ID, where

NULL<afucomp1_A<='30NOV2022'd INCSELFREPSTK71=NULL otherwise.

Source variable(s): [uc8531_compositeafu_safu] AFUcomp29_A,

[uc8531_compositeafu_safu] AFUcomp8b_K, [uc8531_compositeafu_safu] AFUcomp1_a

5.16 INCSELFREPSTK_DATE91_FUdays (Days of follow up from visit 1 to Self-Report Stroke Date or Earliest Date from Last Follow-up, Death, or End of V9 Data Collection)

<u>Description:</u> Numeric variable with the days of follow up from visit 1 to the date the

first time a participant self-reported stroke (through November 30,

2022); if participant never self-reported stroke

(INCSELFREPSTK91=0), then the value is the days of follow up from visit 1 to one of the following: 1) the most recent AFU, 2) date of death, or 3) November 30, 2020, whichever is earlier. The variable is

missing if there are no records for this ID.

Type: Numeric

Algorithm: INCSELFREPSTK_DATE91_FUdays is the number of days between

visit 1 and the earliest status date in the composite follow-up dataset within the records for a single ID where a Y value is found for either AFUcomp29_A or AFUcomp8b_K (as long as the status date is not

greater than "30NOV2022"d)

Else INCSELFREPSTK_DATE91_FUdays is the number of days between visit 1 and min(last completed follow-up interview date by

30NOV2022, date of death, "30NOV2022"d)

Else INCSELFREPSTK_DATE91_FUdays= missing if no records are

found for a single ID

Source variable(s): AFUcomp29_A, AFUcomp8b_K, status date, last completed follow-up

interview by 30NOV2022, date of death

6. NEUROCOGNITIVE STUDY

Table 1. Computer Algorithm Determination of REVISEDSYNDDIAG51 (VISIT 5 only)

Row	Decline ¹	Fail domain ²	CDRsb	FAQ	REVISEDSY	Dx
	(NSS11>=1)	(revised	(CDS7)	(FAQ51)	NDDIAG	(formatted
		NSS6 ³)				value of
						REVISEDSY
					4	NDDIAG)
0		RATEDMMSE51 score less than 21 for white participants or				Prob Dem
	PRORATEDMMSE					
1	N	0	0, missing	≤5, missing	0	NL
2	N	0	0	>5	1	Prob NL
3	N	0	>0 but ≤3	≤5, missing	1	Prob NL
4	N	0	>0 but ≤3	>5	2	Uncert, rvu
5	N	0	>3	≤5, missing	2	Uncert, rvu
6	N	0	>3	>5	2	Uncert, rvu
7	N	1	0, missing	≤5, missing	1	Prob NL
8	N	1	0	>5	3	Prob MCI
9	N	1	>0 but ≤3	≤5, missing	3	Prob MCI
10	N	1	>0 but ≤3	>5	3	Prob MCI
11	N	1	>3	≤5, missing	4	Prob Dem
12	N	1	>3	>5	4	Prob Dem
13	N	>1	0, missing	≤5, missing	1	Prob NL
14	N	>1	0	>5	3	Prob MCI
15	N	>1	>0 but ≤3	≤5, missing	3	Prob MCI
16	N	>1	>0 but ≤3	>5	3	Prob MCI
17	N	>1	>3	≤5	4	Prob Dem
18	N	>1	>3	>5, missing	4	Prob Dem
19	у	0	0, missing	≤5, missing	0	NL
20	у	0	0	>5	2	Uncert, rvu
21	у	0	>0 but ≤3	≤5, missing	1	Prob NL
22	у	0	>0 but ≤3	>5	1	Prob NL
23	у	0	>3	≤5, missing	2	Uncert, rvu
24	у	0	>3	>5	2	Uncert, rvu
25	у	1	0, missing	≤5, missing	5	MCI
26	у	1	0	>5	3	Prob MCI
27	у	1	>0 but ≤3	≤5, missing	5	MCI
28	у	1	>0 but ≤3	>5	3	Prob MCI
29	у	1	>3	≤5	4	Prob Dem
30	у	1	>3	>5, missing	4	Prob Dem
31	у	>1	0, missing	≤5, missing	5	MCI
32	у	>1	0	>5	3	Prob MCI
33	у	>1	>0 but ≤3	≤5	5	MCI
34	у	>1	>0 but ≤3	>5, missing	3	Prob MCI
35	у	>1	>3	≤5	4	Prob Dem
36	у	>1	>3	>5, missing	6	Dem

Table 2. Computer Generated Algorithmic Diagnoses (Visit 6+)

Stratum	Decline ¹	Failed	CDR sum of	FAQ	Algorithm	Selected	Requires
	DDT "	domain ²	boxes	\	Dx ³	to Stage 2	Review
1	PPT diagnosed with dementia at V5 or V6 or V7 (DEMDXL1_&v.1=1)				Dem	No	No
2	MMSE score (prorated) less than 21 for white				Dem	No	No
	participants or						
		MMSE score (prorated) less than 19 for black					
	participants						
3	N	ANY	uncollected	uncollected	NL	No	No
4	Y or Y due	0	uncollected	uncollected	NL	No	No
	to missing						
5	Y or Y due	1 failed OR	0, missing	≤5, missing	MCI	Yes	Yes
	to missing	at least 1					
		missing					
6	Y or Y due	1 failed OR	0	>5	Prob MCI	Yes	Yes
	to missing	at least 1					
		missing					
7	Y or Y due	1 failed OR	>0 but ≤3	≤5, missing	MCI	Yes	Yes
	to missing	at least 1					
		missing					
8	Y or Y due	1 failed OR	>0 but ≤3	>5	Prob MCI	Yes	Yes
	to missing	at least 1					
		missing					
9	Y or Y due	1 failed OR	>3	≤5	Prob Dem	Yes	Yes
	to missing	at least 1					
		missing					
10	Y or Y due	1 failed OR	>3	>5,	Prob Dem	Yes	Yes
	to missing	at least 1		missing			
		missing					
11	Y or Y due	>1	0, missing	≤5, missing	MCI	Yes	Yes
	to missing			_			
12	Y or Y due	>1	0	>5	Prob MCI	Yes	Yes
40	to missing		. 0 1 4 40		140		\ <u>'</u>
13	Y or Y due	>1	>0 but ≤3	≤5	MCI	Yes	Yes
4.4	to missing		. 0 1 1 10		D 146;		
14	Y or Y due	>1	>0 but ≤3	>5,	Prob MCI	Yes	Yes
45	to missing	4		missing	D. I. D.	V.	
15	Y or Y due	>1	>3	≤5	Prob Dem	Yes	Yes
40	to missing	4			D	V.	V.
16	Y or Y due	>1	>3	>5,	Dem	Yes	Yes
	to missing			missing			

6.1 MISSEDMMSEITEMS&v.1 (V&v. Number of missing MMSE items)

<u>Description:</u> Numeric variable describing the number of missing MMSE items.

Type: Numeric

Algorithm: *CALCULATE FOR &v=5, 6, 7, 9;

=nmiss(MME1,MME2,MME3,MME4,MME5,MME6,MME7,MME8,MME 9,MME10,MME11,MME12,MME13,MME14,MME15,MME16,MME17, MME18,MME19,MME20,MME21,MME22,MME23,MME24,MME25,M

ME26,MME27,MME28,MME29,MME30)

Source variable(s): MME1, MME2, MME3, MME4, MME5, MME6, MME7, MME8, MME9,

MME10, MME11, MME12, MME13, MME14, MME15, MME16, MME17, MME18, MME19, MME20, MME21, MME22, MME23, MME24, MME25, MME26, MME27, MME28, MME29, MME30

6.2 PRORATEDMMSE&v.2 (V&v. Pro-rated MMSE score ver2, [(30 * MME score) / (30 – number skipped due to non-cognitive reasons)], NULL if too much missingness)

<u>Description:</u> Version 2 of numeric variable calculated from the number of correct

responses on the Mini-Mental State Exam and the number of items

not collected due to reasons other than cognitive ability.

Type: Numeric

Algorithm: *CALCULATE FOR &v=5, 6, 7, 9;

If .<MISSEDMMSEITEMS&v.1<7 then

PRORATEDMMSE&v.2=(30*(sum(MME1,MME2,MME3,MME4,MME5,MME6,MME7,MME8,MME9,MME10,MME11,MME12,MME13,MME14,MME15,MME15,MME16,MME17,MME18,MME19,MME20,MME21,MME22,MME23,MME24,MME25,MME26,MME27,MME28,MME29,MME30)))/(

30- MISSEDMMSEITEMS&v.1); Else PRORATEDMMSE&v.2=NULL;

END;

Source variable(s): MME1, MME2, MME3, MME4, MME5, MME6, MME7, MME8, MME9,

MME10, MME11, MME12, MME13, MME14, MME15, MME16, MME17, MME18, MME19, MME20, MME21, MME22, MME23, MME24, MME25, MME26, MME27, MME28, MME29, MME30

6.3 COGDIAG&v.1 (&v.1 NCS Cognitive Status Diagnosis)

Description: Categorical variable that combines the information from the reviewer's

cognitive diagnosis and the computer-determined MCI/dementia

syndromic diagnosis.

Format: N (normal), U (unknown/uncertain), M (mild cognitive impairment), and

D (dementia)

<u>Type:</u> Character

Algorithm: Calculate for &v.=5, 6, 7, 8, 8t:

COGDIAG&v.1 is the classification committee's diagnosis

(REVIEWERSYND&v.1) for PPT's who have been selected to stage 2, otherwise the value assigned is determined from ALGDX&v.1 (N=0,1;

M=3,5; D=4,6; U=2).

Source variable(s): REVIEWERSYND&v.1, ALGDX&v.1

6.4 REVISEDROW51 (Row from syndromic dx) (Visit 5 only)

<u>Type:</u> Character

Algorithm: Categorical variable equal to the value in the 'ROW' column in Table 1

above.

Source variable(s): NSS6, NSS11, CDS7, FAQ51, PRORATEDMMSE51, RACEGRP

6.5 ALGDXSTRATUM&v.1 (Row from syndromic dx)

Type: Numeric

Algorithm: Calculate for &v.=6,7, 8t, 9:

Categorical variable equal to the value in the 'STRATUM' column in

Table 2 above.

7. LEVELED DEMENTIA DIAGNOSES

1. Level 1 – Dementia diagnosed based on neuropsychological tests administered inperson at Visit 5 (2011-2013), Visit 6 (2016-2017), Visit 7 (2018-2019), Visit 8 (2020) or over the phone at Visit 8 (2020), and Visit 9 (2021-2022).

Each variable has a corresponding variable for days of follow up from visit 1 to the date of diagnosis and an indicator for the source of the diagnosis. If the PPT has a dementia diagnosis, the diagnosis date corresponds to the earliest date dementia was detected.

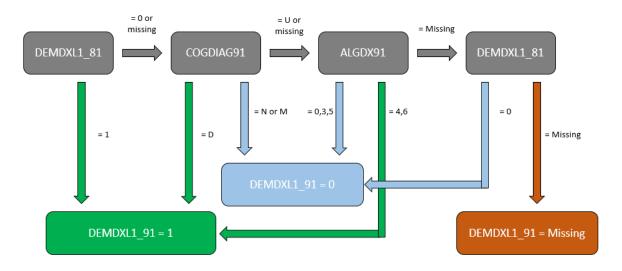
Level 1

The level 1 variable for dementia diagnosis (**DEMDXL1_81**) is available for those PPTs who completed an in-person or phone-based neuropsychological assessment. The evaluation procedure for determining cognitive status is described in **Manual 17**. Briefly, cognitive, behavioral, and functional assessments were conducted and an algorithmic diagnosis was generated. When the algorithm identified incident MCI or dementia, reviewers evaluated diagnostic materials and rendered an additional diagnosis. The reviewer diagnosis superseded the algorithmic diagnosis.

Dementia cases ascertained from in-person assessments are carried forward to subsequent assessments. Dementia cases ascertained from phone-based assessments are carried forward unless a subsequent in-person assessment renders a diagnosis of MCI or normal. A conflicting reviewer diagnosis based on an in-person assessment supersedes a prior reviewer or algorithmic diagnosis generated from a phone-based assessment.

If a participant had an initial in-person assessment in 2020 (V8) and a subsequent phone-based assessment in 2020 (V8T), then two diagnoses were generated. The first diagnosis was rendered using data from the in-person assessment and was defined as occurring on the date of the in-person assessment. The second diagnosis was rendered using data from the in-person and phone-based assessments and was defined as occurring on the date of the phone-based assessment. If only one assessment was performed during Visit 8 then the date and data from that assessment was used to determine the diagnosis.

V9 Dementia Level 1 (DEMDXL1_91) One assessment conducted in-person (V9)



[&]quot;J:\ARIC\Statistics\Data Documentation\Visits\Visit 9\Supporting Documentation\Level Dementia Variables\DEMDX Flow Chart 240524.pptx", created by jpike on 5/28/2024

7.1 DEMDXL1_91 (Dementia diagnosis level 1)

Description: Indicator variable for dementia based on (1) reviewer diagnosis

(COGDIAG91) and (2) algorithmic diagnosis (ALGDX91). Diagnoses

are prioritized based on the order listed. A value of 1 indicates dementia (COGDIAG=D or ALGDX=4, 6). A value of 0 indicates

normal or MCI (COGDIAG=N, M or ALGDX=0, 3, 5).

Format: 0=No, 1=Yes.

Type: Numeric

Algorithm: If DEMDXL1_81=1 then DEMDXL1_91=1

Else if COGDIAG91= "D" then DEMDXL1_91=1

Else if COGDIAG91= ("N" or "M") then DEMDXL1_91=0 Else if COGDIAG91= ("U" or "") and ALGDX91 in (4, 6) then

DEMDXL1 91=1

Else if ALGDX91 in (0, 3, 5) then DEMDXL1_91=0

Else DEMDXL1 91=NULL

Source variable(s): DEMDXL1 81, COGDIAG91, ALGDX91

7.2 DATE_DEMDXL1_91_FollowUpDays (Days of follow up from visit 1 to Date for dementia diagnosis level 1)

<u>Description:</u> Days of follow up from visit 1 to the date of diagnosis associated with

DEMDXL1_91. For PPTs with dementia (DEMDXL1_91=1) the date corresponds to a neuropsychological assessment or the earliest

hospitalization date with a dementia code.

Type: Numeric

<u>Algorithm:</u> IF DEMDXL1_91 = missing

then DATE_DEMDXL1_91_FollowUpDays = missing;

IF DEMDXL1_81 = 1 then DATE_DEMDXL1_91_FollowUpDays =

DATE_DEMDXL1_81_FollowUpDays;

ELSE IF COGDIAG91 = "D" then do;

If DEMDXL2a_82 = 1 then DATE_DEMDXL_91_FollowUpDays

= DATE_DEMDEXL2a_82_FollowUpDays;

Else if DEMDXL2c 82 = 0 then do:

if (DEMENTEDCEL91 = 1 and ((the days of follow up from visit 1 to DEMENTEDCEL91_DATE_COND <= DATE_DEMDXL2c_82_FollowUpDays) or (DATE_DEMDXL2c_82_FollowUpDays is missing and DEMENTEDCEL91_DATE_COND < '01SEP2013'd))) or (DEMENTEDCEL91 = NULL then DATE_DEMDXL1_91_FollowUpDays is the number of days between visit 1 and visit 9 date;

else if DEMENTEDCEL91 = 1 and (NULL < DATE_DEMDXL2c_82_FollowcUpDays < the days of follow up from visit 1 to DEMENTEDCEL91_DATE_COND or (DATE_DEMDXL2c_82_FollowUpDays is missing and DEMENTEDCEL91_DATE_COND > '01SEP2013'd)) then DATE_DEMDXL1_91_FollowUpDays is the number of days between visit 1 and min(visit 9 date,

DEMENTEDCEL91_DATE_COND);

End;

Else DATE_DEMDXL1_91_FollowUpDays is the number of days between visit 1 and min(visit 9 date, DEMENTEDCEL91_DATE1);

END:

ELSE IF COGDIAG91 = ("N" or "M") then
DATE_DEMDXL1_91_FollowUpDays is the number of days between visit 1 and visit 9 date;

ELSE IF COGDIAG91 = ("U" or "") then
If DEMDXL2c_82 = 1 then
DATE_DEMDXL1_91_FollowUpDays =
DATE_DEMDXL2c_82_FollowUpDays;

Else if DEMDXL2c 82 = 0 then do:

if (DEMENTEDCEL91 = 1 and ((the days of follow up from visit 1 to DEMENTEDCEL91_DATE_COND <= DATE_DEMDXL2a_82_FollowUpDays) or (DATE_DEMDXL2c_82_FollowUpDays is missing and DEMENTEDCEL91_DATE_COND < '01SEP2013'd))) or (DEMENTEDCEL91 = NULL then DATE_DEMDXL1_91_FollowUpDays is the number of days between visit 1 and visit 9 date;

else if DEMENTEDCEL91 = 1 and (NULL < DATE_DEMDXL2a_82_FollowUpDays < the days of follow up from visit 1 to DEMENTEDCEL91_DATE_COND or (DATE_DEMDXL2a_82_FollowUpDays is missing and DEMENTEDCEL91_DATE_COND > '01SEP2013'd)) then DATE_DEMDXL1_91_FollowUpDays is the number of days between visit 1 and min(visit 9 date, DEMENTEDCEL91_DATE_COND);

End:

Else DATE_DEMDXL1_91_FollowUpDays is the number of days between visit 1 and min(visit 9 date, DEMENTEDCEL91_DATE1);

END;

ELSE IF ALGDX91 in(0, 3, 5) then DATE_DEMDXL1_91_FollowUpDays is the number of days between visit 1 and visit 9 date;

Source variable(s): visit 1 date, DEMDXL1_81, DEMDXL1_91,

DATE_DEMDXL2c_82_FollowUpDays, DEMDXL2a_82,

DATE_DEMDXL1_81_FollowUpDays, DEMDXL2c_82, COGDIAG91,

ALGDX91, visit 9 date, DEMENTEDCEL91, DATE_DEMDXL2a_82_FollowUpDays,

DEMENTEDCEL91_DATE_COND, DEMENTEDCEL91_DATE1