



Atherosclerosis Risk in Communities Study

Cohort Exam Visit 8 Telephone NCS

DERIVE8T1_NP Derived Variable Dictionary (v2.0)

September 2023

ARIC DERIVE8T1_NP Derived Variable Dictionary

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NEW OR CHANGED FROM PREVIOUS DISTRIBUTION

This table describes the changes to the last published DERIV8T1 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
8/25/2023	<u>Administrative:</u> V8TDATE8T1	The dictionary is converted to a 'NP' version in which variables with dates

	LASTFUINTERVIEW_DATE8T1 <u>Socio-Demographic:</u> BIRTHDAT BIRTHDAT8T1 <u>Neurocognitive Study:</u> ALGDX8T1 ALGDXEXT8T1 ALGDXSTRATUM8T1 NEUROCOGSTAT8T1 REVIEWERSYND8T1 COGDIAG8T1 COGDIAG8T2	are removed due to changes in SIRB requirements. Select neurocognitive study variables are removed from DERIVE8T1.
8/25/2023	<u>Administrative:</u> V8TDATE8T1_FollowUpDays V8TDATE8T1_year LASTFUINTERVIEW_DAT_FollowUpDays LASTFUINTERVIEW_DAT_year	Visit 8T exam date and date of last completed follow-up interview variables are replaced with variables indicating the year and number of follow up days after visit 1.

1. OVERVIEW

The DERIVE8T1_NP dataset contains 3270 records, one for each participant who completed the visit 8 telephone stage 1. The goal of the data set is to provide researchers with information regarding participants' socio-demographic. Many of these variables are consistent with derived variables from previous visits.

The dataset naming convention is as follows: The first digit in the dataset name refers to the visit number. The second digit in the dataset name is incremented in number 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. For example, V7AGE71 describes the participant's age at visit 7 and V8TAGE8T1 describes the participant's age at the time of visit 8 telephone, or visit 8T. The last digit in the variable name identifies the definition version of a variable.

Datasets with "NP" in the name have date variables removed; date variables are replaced with a variable that calculates the number of follow up days after Visit 1 date and the year of the original date variable.

Most variables are derived directly from the data collected at the visit. However, some variables use ARIC follow-up data in their definitions.

Select neurocognitive variables are removed from DERIVE, as described in the 'New or Changed from PREVIOUS Distribution' section.

2. ADMINISTRATIVE

2.1 SUBJECTID (ARIC Subject ID (CIR))

Type: Character; length: \$7.

2.2 ID (ARIC SubjectID - same as SUBJECTID)

Description: The historical participant identifier from visits 1-4 is ID. The value of ID is the same value as SUBJECTID. Use ID when merging visit 8 telephone data with datasets from previous visits necessary for longitudinal analyses.

Type: Character; length: \$7.

Algorithm: ID=SUBJECTID.

Source variable(s): SUBJECTID

2.3 CENTER (Field Center)

Description: Character variable with four possible values derived from the enrollment sites:
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

2.4 V8TDATE8T1_ FollowUpDays (Days of follow up from visit 1 to V8T Stage 1 exam date)

Description: The number of days between visit 1 and date of participant's visit 8 telephone exam, the date from the Ensuring Speech Understanding for Telephone form (ESUT).

Type: Numeric

Algorithm: If visit 8 telephone stage 1 is complete as indicated by the presence of the ESUT form, then V8TDATE8T1_FollowUpDays=ESUT0a – visit 1 date;

Source variable(s): ESUT0a, visit 1 date

2.5 V8TDATE8T1_year (Year of V8T Stage 1 exam date)

Description: Year of the participant's visit 8 telephone exam, the date from the Ensuring Speech Understanding for Telephone form (ESUT).

Type: Numeric

Algorithm: If visit 8 telephone stage 1 is complete as indicated by the presence of the ESUT form, then V8TDATE8T1_year=year of ESUT0a;

Source variable(s): ESUT0a

2.6 LASTFUINTERVIEW_DAT_FollowUpDays (Days of follow up from visit 1 to Date of last completed follow-up interview)

Description: The number of days between visit 1 and the date of the participant's last completed follow-up interview where an actual contact was made, prior to December 4, 2020.

Type: Numeric

Algorithm: Days between Visit 1 and the max value of AFUcomp1_A 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 December 4, 2020.

Source variable(s): AFUcomp1_A, AFUcomp2_A, visit 1 date

2.7 LASTFUINTERVIEW_DAT_year (Year of Date of last completed follow-up interview)

Description: Year of the participant's last completed follow-up interview where an actual contact was made, prior to December 4, 2020.

Type: Numeric

Algorithm: Year of the max value of AFUcomp1_A 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 December 4, 2020.

Source variable(s): AFUcomp1_A, AFUcomp2_A

3. SOCIO-DEMOGRAPHIC

3.1 GENDER (Sex)

Description: Categorical variable that describes the participant's gender:
M=Male
F=Female

Type: Character; length: \$1

Algorithm: GENDER=GENDER (in DERIVE13)

Source variable(s): [DERIVE13] GENDER

3.2 GENDER8T1 (Corrected Gender (V1CORGE1))

Description: Categorical variable that describes the participant's gender:
M=Male
F=Female
Incorrect values for the variable GENDER were identified following the initial data collection on the ARIC cohort. The ARIC Executive Committee has recommended continuing to use the uncorrected variable (GENDER) for Visit 1 and longitudinal analyses. The corrected version could be used for cross-sectional analyses other than Visit 1 and should be decided by the Investigator.

Type: Character; length: \$1

Algorithm: GENDER8T1=V1CORGE1

Source variable(s): V1CORGE1

3.3 RACEGRP (Race)

Description: Categorical variable which describes the participant's race:
A=Asian
B=Black
I=Native American
W=White

Type: Character; length: \$1

Algorithm: RACEGRP=RACEGRP from DERIVE13

Source variable(s): [DERIVE13] RACEGRP

3.4 RACEGRP8T1 (Corrected Race (V1CORRA1))

Description: Categorical variable which describes the participant's race:
A=Asian
B=Black
I=Native American
W=White
Incorrect values for the variable RACEGRP were identified following the initial data collection on the ARIC cohort. The ARIC Executive Committee has recommended continuing to use the uncorrected variable (RACEGRP) for Visit 1 and longitudinal analyses. The corrected version could be used for cross-sectional analyses other than Visit 1 and should be decided by the Investigator.

Type: Character; length: \$1

Algorithm: RACEGRP8T1=V1CORRA1

Source variable(s): V1CORRA1

3.5 V8TAGE8T1 (Visit 8T Age)

Description: Participant's age at the time of the visit 8 telephone exam derived from the BIRTHDAT variable.

Type: Numeric

Algorithm: If V8TDATE8T1>.z and BIRTHDAT>.z then
 $V8TAGE8T1 = \text{floor}(\text{intck}(\text{'month'}, \text{BIRTHDAT}, \text{V8TDATE8T1}) - (\text{day}(\text{V8TDATE8T1}) < \text{day}(\text{BIRTHDAT}))) / 12$;

Source variable(s): BIRTHDAT (Date of Birth), V8TDATE8T1

3.6 V8TAGE8T2 (Corrected Visit 8T Age)

Description: Participant's age at the time of the visit 8 telephone exam derived from the BIRTHDAT8T1 variable. This variable is based on the corrected birthdate. The ARIC Executive Committee has recommended continuing to use the uncorrected variable (V8TAGE8T1) for Visit 1 and longitudinal analyses. The corrected

version could be used for cross-sectional analyses other than Visit 1 and should be decided by the Investigator.

Type: Numeric

Algorithm: If V8TDATE8T1>.z and BIRTHDAT8T1>.z then V8TAGE8T2 = floor((intck('month', BIRTHDAT8T1, V8TDATE8T1) - (day(V8TDATE8T1) < day(BIRTHDAT8T1))))/12);

Source variable(s): BIRTHDAT8T1 (Corrected Birthdate), V8TDATE8T1

4. NEUROCOGNITIVE STUDY

4.1 FAQ8T1 (V8T Functional Activities Questionnaire)

Description: Numeric variable for score on the Functional Activities Questionnaire.

Type: Numeric

Algorithm: $FAQ8T1 = CDI25 + CDI26 + CDI31 + 2(CDI35) + CDI36 + CDI37 + CDI18 + CDI17 + CDI22$

Source variable(s): CDI25, CDI26, CDI31, CDI35, CDI36, CDI37, CDI18, CDI17, CDI22