

The BIOCARD Study

Biomarkers of Cognitive Decline Among Normal Individuals

Demographics and Status

September 2016

Glossary of Terms

Term	Description			
Allowable Codes	codes (and their meanings) allowed to be values for that variable			
Audit Findings	error rates based on BIOCARD or NIH phase audits error rates are calculated as number of errors / total number of variables examined			
Baseline visit	date admitted to NIH phase of BIOCARD study [Note: some data may have been collected prior to this date]			
Collection	when the variable information was collected (i.e., Baseline, Follow-up)			
Comments	further information about the variable not covered in the above fields			
Data Type	numeric or character [Note: Dates are numeric data] numeric or character classifications are strictly related to how the data are stored and not how the data should be analyzed			
JHU phase	the study phase at JHU from 2009 - present			
Missing OK If	instances (such as skips) or reasons why a blank or missing value is acceptable			
NA	not applicable for this variable			
NIH / NIH phase	the study phase that was performed at the NIH from 1995-2005			
Question Text	the question as it appears on the NACC or BIOCARD data collection forms			
Short Description	a short explanation of what the variable means			
Source	the name of the NACC form, BIOCARD form, or NIH dataset containing the variable information (or "DERIVED" if the variable was derived) and the variable question number located on the form or in the dataset, if applicable			
Unknown Code	the codes for the "unknown", "don't know", or missing values for the variable			
Variable Name	the name of the variable in the provided dataset [Note: Variables will follow the NACC naming scheme as closely as possible]			

Acronyms and Definitions

AD	Alzheimer's Disease				
CDR	Clinical Dementia Rating				
CERAD	Consortium to Establish a Registry for Alzheimer's Disease				
CNS	Central Nervous System				
CSF	Cerebrospinal Fluid				
CVD	Cardiovascular Disease				
CVLT	California Verbal Learning Test				
FAQ	Functional Assessment Questionnaire				
FTD	Frontotemporal Degenerations				
GDS	Geriatric Depression Scale				

JHU	The Johns Hopkins University				
MCI	Mild Cognitive Impairment				
MMSE	Mini-Mental State Examination				
NACC	National Alzheimer's Coordinating Center				
NIA	National Institute on Aging				
NINDS	National Institute of Neurological Disorders and Stroke				
NPI-Q	Neuropsychiatric Inventory Questionnaire				
UPDRS	Unified Parkinson's Disease Rating Scale				
WAIS	Wechsler Adult Intelligence Scale				
WMS	Wechsler Memory Scale				

Demographics and Status Dataset Characteristics

Number of variables: 28

Order of variables:

1) JHUANONID Participant ID Anonymized by JHU

2) CODENAME Participant Codename

3) NIHID Participant NIH ID

4) STUDY_ID Participant Study ID

5) SEX Participant's sex

6) STARTYEAR Year of study start

7) FOLLIHU Participant has visits in JHU phase

8) BIRTHYR Year of participant's birth

9) DEATHYR Year of participant death

10) EDUC Education

11) HANDED Left- or right-handed

12) RACE Race

13) RACEX Race, other specify

14) RACESEC Additional race

15) RACESECX Additional race, other specify

16) RACETER Additional race

17) RACETERX Additional race, other specify

18) HISPANIC Hispanic/Latino ethnicity

19) HISPOR Hispanic origins

20) HISPORX Hispanic origins, other specify

21) MARISTAT Marital status

22) MARISTAX Marital status, other specify

23) MARSTAT2 2nd marital status

24) MARSTA2X Year of change to 2nd marital status

25) MARSTAT3 3rd marital status

26) MARSTA3X Year of change to 3rd marital status

27) PRIMLANG Primary language

28) PRIMLANX Other primary language - specify

1) Variable Name JHUANONID

Short Description Participant ID Anonymized by JHU

Source NA

Question Text NA

Time of Collection Baseline

Data Type Character

Allowable Codes JHU + 6 numbers

Missing OK If NA

Audit Findings NA

Comments None

2) Variable Name CODENAME

Short Description Participant Codename

Source NA

Question Text NA

Time of Collection Baseline

Data Type Character

Allowable Codes

Missing OK If NA

Audit Findings NA

3) Variable Name NIHID

Short Description Participant NIH ID

Source NA

Question Text NA

Time of Collection Baseline

Data Type Numeric

Allowable Codes

Missing OK If NA

Audit Findings NA

Comments None

4) Variable Name STUDY_ID

Short Description Participant Study ID

Source NA

Question Text NA

Time of Collection Baseline

Data Type Numeric

Allowable Codes

Missing OK If NA

Audit Findings NA

5) Variable Name SEX

Short Description Participant's sex

Source A1 #8

Question Text Participant's sex

Time of Collection Baseline

Data Type Numeric

Allowable Codes 1 = Male

2 = Female

Missing OK If NA

Audit Findings [JHU Audits]: A1 form error rate = 0.2% (based on 38 forms as of NOV2015)

6 participants had inconsistent sex across NIH and JHU datasets = 3.8% - these

inconsistencies were corrected

Comments If value was missing or no A1 form was completed, the NIH phase value SEX from

the DEMO dataset was used, if available.

6) Variable Name STARTYEAR

Short Description Year of study start

Source DERIVED

Question Text NA

Time of Collection Baseline

Data Type Numeric

Allowable Codes Min = 1995

Max = 2005

Missing OK If NA

Audit Findings NA

Comments Derived variable: Year from the DEMO dataset variable STARTDATE

7) Variable Name FOLLIHU

Short Description Participant has visits in JHU phase

Source V1

Question Text Derived

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes 0 = No

1 = Yes

Missing OK If NA

Audit Findings [JHU Audits]: V1 form error rate = 0.7% (based on 36 forms as of NOV2015)

No NIH phase audits.

Comments Derived variable.

If the participant had at least one visit with JHU, this variable value is 1 (Yes).

8) Variable Name BIRTHYR

Short Description Year of participant's birth

Source A1 #7B

Question Text participant's year of birth

Time of Collection Baseline

Data Type Numeric

Allowable Codes Min = 1875

Max = current year minus 15

Missing OK If NA

Audit Findings [JHU Audits]: A1 form error rate = 0.2% (based on 38 forms as of NOV2015)

Comments If value was missing or no A1 form was completed, the NIH phase value BIRTHYR

from the DEMO dataset was used, if available.

9) Variable Name DEATHYR

Short Description Year of participant death

Source M1 #1d

Question Text Date of death

Time of Collection Follow-up

Data Type Numeric

Allowable Codes Min = 1995

Max = Current year

Missing OK If Not deceased (no M1 form where M1 #1 = "Yes")

Audit Findings [JHU Audits]: M1 form error rate = 0.2% (based on 31 forms as of NOV2015)

10) Variable Name EDUC

Short Description Education

Source A1 #14

Question Text Participant's years of education (report achieved level using the codes below; if an

attempted level is not completed, enter the number of years completed):

High school/GED = 12; Bachelors degree = 16; Master's degree = 18;

Doctorate = 20

Time of Collection Baseline

Data Type Numeric

Allowable Codes 0 - 36

Unknown Code 99

Missing OK If NA

Audit Findings [JHU Audits]: A1 form error rate = 0.2% (based on 38 forms as of NOV2015)

All participants analyzed for NIH phase and JHU phase inconsistencies with 1

participant's education changing by more than 2 years = 0.01%

Comments If value was missing or no A1 form was completed, the NIH phase value

EDUCATION from the the DEMO dataset was used, if available.

11) Variable Name HANDED

Short Description Left- or right-handed

Source A1 #20

Question Text Is the participant left- or right-handed (for example, which hand would s/he

normally use to write or throw a ball)?

Time of Collection Baseline

Data Type Numeric

Allowable Codes 1 = Left-handed

2 = Right-handed 3 = Ambidextrous

Unknown Code 9

Missing OK If NA

Audit Findings [JHU Audits]: A1 form error rate = 0.2% (based on 38 forms as of NOV2015)

No NIH phase audits.

Comments If value was missing or no A1 form was completed, the NIH phase value HAND

from the the BLRNEW dataset was used, if available.

12) Variable Name RACE

Short Description Race

Source A1 #10

Question Text What does participant report as his/her race?

Time of Collection Baseline

Data Type Numeric

Allowable Codes 1 = White

2 = Black or African American

3 = American Indian or Alaska Native

4 = Native Hawaiian or Other Pacific Islander

5 = Asian

50 = Other

Unknown Code 99

Missing OK If NA

Audit Findings [JHU Audits]: A1 form error rate = 0.2% (based on 38 forms as of NOV2015)

No NIH phase audits.

Comments If value was missing or no A1 form was completed, the NIH phase value RACE

from the DEMO dataset was used, if available.

13) Variable Name RACEX

Short Description Race, other specify

Source A1 #10A

Question Text Race, other specify

Time of Collection Baseline

Data Type Character

Allowable Codes Any text or numbers but cannot use single quotes ('), double quotes ("),

ampersands (&), or percentage signs (%).

Missing OK If A1 #10, RACE \neq 50 (Other).

Audit Findings [JHU Audits]: A1 form error rate = 0.2% (based on 38 forms as of NOV2015)

No NIH phase audits.

14) Variable Name RACESEC

Short Description Additional race

Source A1 #11

Question Text What additional race does participant report?

Time of Collection Baseline

Data Type Numeric

Allowable Codes 1 = White

2 = Black or African American

3 = American Indian or Alaska Native

4 = Native Hawaiian or Other Pacific Islander

5 = Asian 50 = Other

88 = None reported

Unknown Code 99

Missing OK If Not a part of the JHU phase of the study.

Audit Findings [JHU Audits]: A1 form error rate = 0.2% (based on 38 forms as of NOV2015)

No NIH phase audits.

Comments None

15) Variable Name RACESECX

Short Description Additional race, other specify

Source A1 #11A

Question Text Additional race, other specify

Time of Collection Baseline

Data Type Character

Allowable Codes Any text or numbers but cannot use single quotes ('), double quotes ("),

ampersands (&), or percentage signs (%).

Missing OK If A1 #11, RACESEC ≠ 50 (Other).

Audit Findings [JHU Audits]: A1 form error rate = 0.2% (based on 38 forms as of NOV2015)

No NIH phase audits.

16) Variable Name RACETER

Short Description Additional race

Source A1 #12

Question Text What additional race, beyond what was indicated above in questions 10 and 11,

does participant report?

Time of Collection Baseline

Data Type Numeric

Allowable Codes 1 = White

2 = Black or African American

3 = American Indian or Alaska Native

4 = Native Hawaiian or Other Pacific Islander

5 = Asian 50 = Other

88 = None reported

Unknown Code 99

Missing OK If Not a part of the JHU phase of the study.

Audit Findings [JHU Audits]: A1 form error rate = 0.2% (based on 38 forms as of NOV2015)

No NIH phase audits.

Comments None

17) Variable Name RACETERX

Short Description Additional race, other specify

Source A1 #12A

Question Text Additional race, other specify

Time of Collection Baseline

Data Type Character

Allowable Codes Any text or numbers but cannot use single quotes ('), double quotes ("),

ampersands (&), or percentage signs (%).

Missing OK If A1 #12, RACETER ≠ 50 (Other).

Audit Findings [JHU Audits]: A1 form error rate = 0.2% (based on 38 forms as of NOV2015)

No NIH phase audits.

18) Variable Name HISPANIC

Short Description Hispanic/Latino ethnicity

Source A1 #9

Question Text Does the participant report being of Hispanic/Latino ethnicity. (i.e., having origins

from a mainly Spanish-speaking Latin American country), regardless of race?

Time of Collection Baseline

Data Type Numeric

Allowable Codes 0 = No

1 = Yes

Unknown Code 9

Missing OK If Not a part of the JHU phase of the study AND/OR neither NIH RACE nor NIH

HISPANIC indicated Hispanic ethnicity. See Additional Comments.

Audit Findings [JHU Audits]: A1 form error rate = 0.2% (based on 38 forms as of NOV2015)

No NIH phase audits.

Comments If value was missing or no A1 form was completed, the NIH phase value RACE

from the DEMO dataset or HISPANIC from GPBDEMO dataset was used, if available. Hispanic=1 if NIH phase RACE="H" or NIH phase HISPANIC = 1.

19) Variable Name HISPOR

Short Description Hispanic origins

Source A1 #9A

participant's reported origins?

Time of Collection Baseline

Data Type Numeric

Allowable Codes 1 = Mexican/Chicano/Mexican-American

2 = Puerto Rican

3 = Cuban 4 = Dominican 5 = Central American

6 = South American

50 = Other

Unknown Code 99

Missing OK If A1 #9, HISPANIC \neq 1 (YES).

Audit Findings [JHU Audits]: A1 form error rate = 0.2% (based on 38 forms as of NOV2015)

No NIH phase audits.

Comments None

20) Variable Name HISPORX

Short Description Hispanic origins, other specify

Source A1 #9A1

Question Text Hispanic origins, other specify

Time of Collection Baseline

Data Type Character

Allowable Codes Any text or numbers but cannot use single quotes ('), double quotes ("),

ampersands (&), or percentage signs (%).

Missing OK If A1 #9, HISPANIC ≠ 1 (YES) or if A1 #9A, HISPOR ≠ 50 (Other).

Audit Findings [JHU Audits]: A1 form error rate = 0.2% (based on 38 forms as of NOV2015)

No NIH phase audits.

21) Variable Name MARISTAT

Short Description Marital status

Source A1 #19

Question Text Participant's baseline marital status

Time of Collection Baseline

Data Type Numeric

Allowable Codes 1 = Married

2 = Widowed 3 = Divorced 4 = Separated 5 = Never married 6 = Living as married

8 = Other

Unknown Code 9

Missing OK If NA

Audit Findings [JHU Audits]: A1 form error rate = 0.2% (based on 38 forms as of NOV2015)

No NIH phase audits.

Comments None

22) Variable Name MARISTAX

Short Description Marital status, other specify

Source A1 #19A

Question Text Baseline marital status, other specify

Time of Collection Baseline

Data Type Character

Allowable Codes Any text or numbers but cannot use single quotes ('), double quotes ("),

ampersands (&), or percentage signs (%).

Missing OK If A1 #19, MARISTAT ≠ 8 (Other).

Audit Findings [JHU Audits]: A1 form error rate = 0.2% (based on 38 forms as of NOV2015)

No NIH phase audits.

Comments

23) Variable Name MARSTAT2

Short Description 2nd marital status

Source A1 #19

Question Text Subject's current marital status

Time of Collection Follow-up

Data Type Numeric

Allowable Codes 1 = Married

2 = Widowed 3 = Divorced 4 = Separated 5 = Never married 6 = Living as married

Unknown Code 9

Missing OK If Always okay

Audit Findings [JHU Audits]: A1 form error rate = 0.2% (based on 38 forms as of NOV2015)

No NIH phase audits.

Comments If, during follow-up, a participant or his or her informant indicates a change in

marital status, this variable will contain a value; otherwise, the participant has

maintained the same marital status since baseline.

24) Variable Name MARSTA2X

Short Description Year of change to 2nd marital status

Source A1

Question Text Derived

Time of Collection Follow-up

Data Type Numeric

Allowable Codes Min = 2009

Max = present year

Missing OK If A1 #19 MARSTAT2 is blank

Audit Findings [JHU Audits]: A1 form error rate = 0.2% (based on 38 forms as of NOV2015)

No NIH phase audits.

25) Variable Name MARSTAT3

Short Description 3rd marital status

Source A1 #19

Question Text Subject's current marital status

Time of Collection Follow-up

Data Type Numeric

Allowable Codes 1 = Married

2 = Widowed 3 = Divorced 4 = Separated 5 = Never married 6 = Living as married

Unknown Code 9

Missing OK If Always okay

Audit Findings [JHU Audits]: A1 form error rate = 0.2% (based on 38 forms as of NOV2015)

No NIH phase audits.

Comments If, during follow-up, a participant or his or her informant indicates a change in

marital status, this variable will contain a value; otherwise, the participant has maintained the same marital status since either marital status 2 or baseline.

26) Variable Name MARSTA3X

Short Description Year of change to 3rd marital status

Source A1

Question Text Derived

Time of Collection Follow-up

Data Type Numeric

Allowable Codes Min = 2009

Max = present year

Missing OK If A1 #19 MARSTAT3 is blank

Audit Findings [JHU Audits]: A1 form error rate = 0.2% (based on 38 forms as of NOV2015)

No NIH phase audits.

27) Variable Name PRIMLANG

Short Description Primary language

Source A1 #13

Question Text Participant's primary language

Time of Collection Baseline

Data Type Numeric

Allowable Codes 1 = English

2 = Spanish 3 = Mandarin 4 = Cantonese 5 = Russian 6 = Japanese

8 = Other primary language

Unknown Code 9

Missing OK If NA

Audit Findings [JHU Audits]: A1 form error rate = 0.2% (based on 38 forms as of NOV2015)

No NIH phase audits.

Comments

28) Variable Name PRIMLANX

Short Description Other primary language - specify

Source A1 #13A

Question Text Other primary language - specify

Time of Collection Baseline

Data Type Character

Allowable Codes Any text or numbers but cannot use single quotes ('), double quotes ("),

ampersands (&), or percentage signs (%).

Missing OK If A1 #13, PRIMLANG ≠ 8 (Other primary language).

Audit Findings [JHU Audits]: A1 form error rate = 0.2% (based on 38 forms as of NOV2015)

No NIH phase audits.

Comments