

The BIOCARD Study

Biomarkers of Cognitive Decline Among Normal Individuals

> CSF Data Limited Dataset January 2021

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] a Type 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

CSF Data Limited Dataset Characteristics

Number	of variables:20	
Order of	f variables:	
1)	JHUANONID	Participant ID Anonymized by JHU
2)	VISITNO	CSF visit number
3)	CSFMOBL	Months since baseline visit
4)	AB142	Amyloid Beta 1-42 pg/mL
5)	TAU	Tau pg/mL
6)	PTAU	Phosphorylated Tau 181 pg/mL
7)	S4101	If lumbar puncture was not completed, indicate the primary reason
8)	S4102	Lumbar puncture completed
9)	S4103	If lumbar puncture was not completed, indicate the primary reason
10)	S4104	If lumbar puncture was completed, indicate the space at which the LP needle was inserted
11)	S4105	Indicate the position for the LP procedure
12)	S4105s	Indicate the position for the LP procedure Other
13)	S4106a	After the participant had rested for ½ hour, the participant reported Headache
14)	S4106b	After the participant had rested for ½ hour, the participant reported Dizziness
15)	S4106c	After the participant had rested for ½ hour, the participant reported Back pain
16)	S4106d	After the participant had rested for ½ hour, the participant reported Other
17) 18)	S4106ds S4107a	After the participant had rested for ½ hour, the participant reported Other-speci Record the number of aliquots that were prepared for storage
19)	S4107b	Record the number of aliquots that were prepared for storage
20)	S4108	Record the number of minutes after the lumbar puncture ended that the specimen tubes were frozen

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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 VISITNO

Source CSF

Question Text NA

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Integers and decimals from 1 to 10

Missing OK If NA

Audit Findings NA

Comments Visit at which CSF specimen was collected.

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3) Variable Name CSFMOBL

Short Description Months since baseline visit

Source DERIVED

Question Text NA

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 999

Missing OK If NA

Audit Findings NA

Comments Calculated as months between the baseline start date and the recorded CSF date.

4) Variable Name AB142

Short Description Amyloid Beta 1-42 pg/mL

Source NA

Question Text NA

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 68

Max = 4400

Missing OK If NA

Audit Findings NA

Comments Measurement information available at:

Moghekar A, Li S, Lu Y, Li M, Wang M-C, Albert M, O'Brien R, for the JHU Research Team. Cerebrospinal fluid biomarker changes precede symptom onset of mild cognitive impairment. Neurology, 2013 Nov 12; 81(20):1753-1758 PMCID:

PMC3821715

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5) Variable Name TAU

Short Description Tau pg/mL

Source NA

Question Text NA

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 14

Max = 245

Missing OK If NA

Audit Findings NA

Comments Measurement information available at:

Moghekar A, Li S, Lu Y, Li M, Wang M-C, Albert M, O'Brien R, for the JHU Research Team. Cerebrospinal fluid biomarker changes precede symptom onset of mild cognitive impairment. Neurology, 2013 Nov 12; 81(20):1753-1758 PMCID:

PMC3821715

6) Variable Name PTAU

Short Description Phosphorylated Tau 181 pg/mL

Source NA

Question Text NA

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 10

Max = 162

Missing OK If NA

Audit Findings NA

Comments Measurement information available at:

Moghekar A, Li S, Lu Y, Li M, Wang M-C, Albert M, O'Brien R, for the JHU Research Team. Cerebrospinal fluid biomarker changes precede symptom onset of mild cognitive impairment. Neurology, 2013 Nov 12; 81(20):1753-1758 PMCID:

PMC3821715

7) Variable Name **S4101**

Short Description Lumbar puncture attempted

Source S4 #1

Question Text NA

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes 0 = No

1 = Yes

Missing OK If NA

Audit Findings [JHU Audits]: S4 form error rate = 0.0% (based on 29 forms as of FEB2020)

Comments If "No" clinician stops here

8) Variable Name \$4102

Short Description Lumbar puncture completed

Source S4 #2

Question Text NA

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes 0 = No

1= Yes

Missing OK If NA

Audit Findings [JHU Audits]: S4 form error rate = 0.0% (based on 29 forms as of FEB2020)

Comments If "Yes" clinician skips to #4

9) Variable Name \$4103

Short Description If lumbar puncture was not completed, indicate the primary reason

Source S4 #3

Question Text NA

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes 1 = Subject withdrew

2 = Subject complications

3 = Environmental- complications

Missing OK If NA

Audit Findings [JHU Audits]: S4 form error rate = 0.0% (based on 29 forms as of FEB2020)

Comments Clinician stops here

10) Variable Name \$4104

Short Description If lumbar puncture was completed, indicate the space at which the LP needle was inserted

Source S4 #4

Question Text NA

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes 1=L2-L3 2= L3-L4

3= L4-L5 4=L5-S1

Missing OK If NA

Audit Findings [JHU Audits]: S4 form error rate = 0.0% (based on 29 forms as of FEB2020)

11) Variable Name \$4105

Short Description Indicate the position for the LP procedure

Source S4 #5

Question Text NA

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes 1=Sitting up

2=Lying down 3=Other, specify

Missing OK If NA

Audit Findings JHU Audits]: S4 form error rate = 0.0% (based on 29 forms as of FEB2020)

Comments None

12) Variable Name \$4105s

Short Description Indicate the position for the LP procedure Other

Source S4 #5s

Question Text NA

Time of Collection Baseline and Follow-up

Data Type Character

Allowable Codes Text

Missing OK If NA

Audit Findings JHU Audits]: S4 form error rate = 0.0% (based on 29 forms as of FEB2020)

13) Variable Name \$4106a

Short Description After the participant had rested for ½ hour, the participant reported Headache

Source S4 #6a

Question Text NA

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes 0 = No

1 = Yes

Missing OK If NA

Audit Findings JHU Audits]: S4 form error rate = 0.0% (based on 29 forms as of FEB2020)

Comments None

14) Variable Name S4106b

Short Description After the participant had rested for ½ hour, the participant reported Dizziness

Source S4 #6b

Question Text NA

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes 0 = No

1 = Yes

Missing OK If NA

Audit Findings JHU Audits]: S4 form error rate = 0.0% (based on 29 forms as of FEB2020)

15) Variable Name \$4106c

Short Description After the participant had rested for ½ hour, the participant reported Back pain

Source S4 #6c

Question Text NA

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes 0 = No

1 = Yes

Missing OK If NA

Audit Findings JHU Audits]: S4 form error rate = 0.0% (based on 29 forms as of FEB2020)

Comments None

16) Variable Name S4106d

Short Description After the participant had rested for ½ hour, the participant reported Other

Source S4 #6d

Question Text NA

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes 0 = No

1 = Yes

Missing OK If NA

Audit Findings JHU Audits]: S4 form error rate = 0.0% (based on 29 forms as of FEB2020)

17) Variable Name \$4106ds

Short Description After the participant had rested for ½ hour, the participant reported Other-specify

Source S4 #6ds

Question Text NA

Time of Collection Baseline and Follow-up

Data Type Character

Allowable Codes Text

Missing OK If NA

Audit Findings JHU Audits]: S4 form error rate = 0.0% (based on 29 forms as of FEB2020)

Comments None

18) Variable Name \$4107a

Short Description Record the number of aliquots that were prepared for storage

Source S4 #7a

Question Text Number of 250 µl tubes

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes 0-Min

50-Max 99-Unknown

Missing OK If NA

Audit Findings JHU Audits]: S4 form error rate = 0.0% (based on 29 forms as of FEB2020)

19) Variable Name S4107b

Short Description Record the number of aliquots that were prepared for storage

Source S4 #7b

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes 0-Min

35-Max

99-Unknown

Missing OK If NA

Audit Findings JHU Audits]: S4 form error rate = 0.0% (based on 29 forms as of FEB2020)

Comments None

20) Variable Name \$4108

Short Description Record the number of minutes after the lumbar puncture ended that the specimen tubes were frozen

Source S4 #8

Question Text Number of minutes after the lumbar puncture ended that specimen tubes were frozen

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes 30-Min

150-Max

Missing OK If NA

Audit Findings JHU Audits]: S4 form error rate = 0.0% (based on 29 forms as of FEB2020)