

The BIOCARD Study

Biomarkers of Cognitive Decline Among Normal Individuals

> Cognitive Limited Dataset

Glossary of Terms

Allowable Codes	codes (and their meaning) allowed to be values for that variable			
Audit findings	error rates based on BIOCRAD 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 [Noted: Dates are numeric data]			
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 in the variable			
Variable Name	the name of the variable in the provided dataset {Noted: 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
NART	National Adult Reading Test
NIA	National Institute on Aging
NINDS	National Institute of Neurological Disorders and Stroke
NPI-Q	Neuropsychiatric Inventory Questionnaire
PDRS	Unified Parkinson's Disease Rating Scale
WAIS	Wechsler Adult Intelligence Scale
WMS	Wechsler Memory Scale

Cognitive Limited Dataset Characteristics

Number of variables: 102

Order of variables:

1)	JHUANONID	Participant ID Anonymized by JHU
2)	VISITNO	Chronological visit number
3)	MOFROMBL	Months since baseline visit
4)	MMSE	MMSE score, total
5)	LOGMEM1A	Logical Memory Immediate A: Story units recalled (Story A)
6)	LOGMEM1B	Logical Memory Immediate B: Story units recalled (Story B)
7)	LOGMEM2A	Logical Memory Delayed A: Story units recalled (Story A)
8)	LOGMEM2B	Logical Memory Delayed B: Story units recalled (Story B)
9)	MEMTIME	Time elapsed between Logical Memory Immediate and Delayed
10)	DIGITEST	Digit Span: Test source
11)	DIGIF	Digit Span Forward: Trials correct
12)	DIGIFLEN	Digit Span Forward: Length
13)	DIGIB	Digit Span Backward: Trials correct
14)	DIGIBLEN	Digit Span Backward: Length
15)	ANIMALS	Category Fluency: Total animals named
16)	VEG	Category Fluency: Total vegetables named
17)	ANINTRU	Category Fluency: Intrusions, animals
18)	ANPERSEV	Category Fluency: Perseveration, animals
19)	VINTRU	Category Fluency: Intrusions, vegetables
20)	VPERSEV	Category Fluency: Perseveration, vegetables
21)	TRAILA	Trail Making Part A: Total number of seconds
22)	TRAILB	Trail Making Part B: Total number of seconds
23)	DSST	Digit Symbol (WAIS-R): Total number correct items
24)	FCORR	Verbal Fluency: Number of correct, letter F
25)	FINTRU	Verbal Fluency: Intrusions, letter F
26)	FPERSEV	Verbal Fluency: Perseveration, letter F
27)	ACORR	Verbal Fluency: Number of correct, letter A
28)	AINTRU	Verbal Fluency: Intrusions, letter A
29)	APERSEV	Verbal Fluency: Perseveration, letter A
30)	SCORR	Verbal Fluency: Number of correct, letter S
31)	SINTRU	Verbal Fluency: Intrusions, letter S
32)	SPERSEV	Verbal Fluency: Perseveration, letter S
33)	BLOCK	Block design (WAIS-R): Total score
34)	REYCOPY	Rey Figure Copy: Total score
35)	REYRECAL	Rey Figure Recall

36)	PAIRED1	WMS-R: Verbal Paired Associates I (Immediate Recall)	
37)	PAIRED2	WMS-R: Verbal Paired Associates II (Delayed Recall)	
38)	CVLTFORM	California Verbal Learning Test (CVLT) form	
39)	CVLTLTR1	CVLT: Number correct trial #1	
40)	CVLTLTR2	CVLT: Number correct trial #2	
41)	CVLTLTR3	CVLT: Number correct trial #3	
42)	CVLTLTR4	CVLT: Number correct trial #4	
43)	CVLTLTR5	CVLT: Number correct trial #5	
44)	CVLTTOTL	CVLT: Number correct trials #1 - #5	
45)	CVLTSDFR	CVLT: Short delay free recall	
46)	CVLTSDCR	CVLT: Short delay cued recall	
47)	CVLTLDFR	CVLT: Long delay free recall	
48)	CVLTLDCR	CVLT: Long delay cued recall	
49)	CVLTSMTO	CVLT: Semantic clustering trials #1 - #5	
50)	CVLTTRRC	CVLT: Percent recall from recency region	
51)	CVLT15SL	CVLT: Total learning slope trials #1 - #5	
52)	CVLTLDT5	CVLT: Percent long delay free recall vs. trial #5	
53)	CVLTTREP	CVLT: Total repetitions	
54)	CVLTTINT	CVLT: Total intrusions	
55)	CVLTRCHT	CVLT: Delayed recognition hits	
56)	CVLTRCFA	CVLT: Delayed recognition false positive	
57)	CVLTTODM	CVLT: Total recognition discriminability	
58)	CVLTSMDM	CVLT: Semantic recognition discriminability	
59)	DHAND	Grooved Pegboard: Dominant hand (seconds)	
60)	NODHAND	Grooved Pegboard: Non-dominant hand (seconds)	
61)	BOSTON	Boston Naming Test – number correct	
62)	BNTPCT	Boston Naming Test – Percentage correct	
63)	FRUITL	Category Fluency: Fruit # generated in 60 Seconds	
64)	FRUIPER	Category Fluency: Fruit # perseverations	
65)	FRUIINT	Category Fluency: Fruit # intrusions	
66)	JOLOTOTL	Judgment of Line Orientation	
67)	MATTIS	Dementia Rating Scale # correct /144	
68)	SUPERMKT	Category Fluency: Supermarket items generated in 60 seconds	
69)	NART_TL	NART: # correct/50	

70)	NART_IQ	NART: Estir	mated Verbal IQ
71)	INFO	WMS-R: Inj	formation and Orientation
72)	FIGURAL	WMS-R: Fig	gural Memory
73)	VISPAIR1	WMS-R: Vis	sual Paired Associates 1
74)	VISREPR1	WMS-R: Vi	isual Reproduction 1
75)	VISMEMSP	WMS-R: Vi	sual Memory Span (Sum of forward and backward tapping span)
76)	VISPAIR2	WMS-R: Vi	isual Paired Associates 2 (Delayed Recall)
77)	VISREPR2	WMS-R: Vi	isual Reproduction 2 (Delayed Recall)
78)	WMSRVERB	WMS-R: Su	ummary Verbal Memory
79)	WMSRVISU	WMS-R: Su	ummary Visual Memory
80)	WMSRGEN	WMS-R: Su	ımmary General Memory
81)	WMSRDELY	WMS-R: Su	ımmary Delayed Memory
82)	WAISVCRW	WAIS-R: V	ocab. raw score /70
83)	WAISVCSS	WAIS-R: Vo	ocab. scaled score/19
84)	WAISVCAC	WAIS-R: Vo	ocab. age-corrected/19
85)	WAISSMRW	WAIS-R: Sii	milarities raw score/28
86)	WAISSMSS	WAIS-R: Sir	milarities scaled score/19
87)	WAISSMAC	WAIS-R: Sir	milarities age-corrected score/19
88)	WAISINRW	WAIS-R: Inj	formation raw score/29
89)	WAISINSS	WAIS-R: Inj	formation scaled score/19
90)	WAISINAC	WAIS-R: Inj	formation age corrected/19
91)	WAISPARW	WAIS-R: Ar	rithmetic raw score/19
92)	WAISPASS	WAIS-R: Ar	rithmetic scaled score/19
93)	WAISPAAC	WAIS-R: Ar	rithmetic age corrected/19
94)	WAISPCRW	WAIS-R: Pi	cture Completion raw score/20
95)	WAISPCSS	WAIS-R: Pi	cture Completion scaled score/19
96)	WAISRCAC	WAIS-R: Pi	cture Completion age corrected/19
97)	B17101	New partic	cipant
98)	Composite_glo pal	(Global cognitive composite score
99)	Composite_episodi	c_memory	Cognitive composite score for verbal episodic memory
100)	Composite_exe ;uti	ve	Cognitive composite score for executive function
101)	Composite_vis los		Cognitive composite score for visuospatial processing
102)	Composite_la gua	ige	Cognitive composite score for language

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

Short Description Chronological visit number

Source NA

Question Text NA

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes NIH visit: Integers and decimals from 0 to 10, where a visit 0 represents a visit that

occurred prior to the established baseline date

JHU visit: 101, 102, 103, 104, 1XX where XX is from 01 to 99

Visit number 999 used for all participants that have died before a 101 visit for forms: A4, A5, A5a, B1, B2, B3, B3a, B8, B9, and D1. For participants that are alive, an A5 may have a 999 visit number to capture medical data acquired during the

NIH phase of the study.

Missing OK If NA

Audit Findings NA

3) Variable Name MOFROMBL

Short Description Months since baseline visit

Source DERIVED

Question Text NA

Time of Collection Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 999

Missing OK If NA

Audit Findings NA

Comments Derived variable.

[JHU phase] Calculated as months between the baseline start date and the V1

VISITDATE (formerly V11_Date) for follow-up visits.

[NIH phase] Calculated as months between the baseline start date and the

recorded visit date (COG1DATE - fsvis).

4) Variable Name MMSE

Short Description MMSE score, total

Source C1#1D

Question Text Total MMSE score (using D-L-R-O-W)

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 30

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1 form error rate = 0.2% (based on 78 forms as of NOV2019)

No NIH phase audits.

5) Variable Name LOGMEM1A

Short Description Logical Memory Immediate A: Story units recalled (Story A)

Source C1 #3B

Question Text Total number of story units recalled from this current test administration

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 25

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1 form error rate = 0.2% (based on 78 forms as of NOV2019)

[NIH audits] LOGICAL error rate = 3.4% (based on complete audit of 28

participants)

Comments Derived variable:

based on WMS "LOGICAL" variable. LOGIMEM = LOGICAL / 2

6) Variable Name LOGMEM1B

Short Description Logical Memory Immediate B: Story units recalled (Story B)

Source DERIVED

Question Text Total number of story units recalled from this current test administration

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 25

Missing OK If JHU phase visit.

Audit Findings No NIH phase audits.

Comments NIH phase only.

7) Variable Name LOGMEM2A

Short Description Logical Memory Delayed A: Story units recalled (Story A)

Source C1 #9A

Question Text Delayed: Total number of story units recalled

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 25

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1 form error rate = 0.2% (based on 78 forms as of NOV2019)

[NIH audits] LOGICAL2 error rate = 3.4% (based on complete audit of 28

participants)

Comments Derived value:

based on WMS "LOGICAL2" variable. LOGMEM2A = LOGICAL2 / 2

8) Variable Name LOGMEM2B

Short Description Logical Memory Delayed B: Story units recalled (Story B)

Source DERIVED

Question Text Delayed: Total number of story units recalled

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 25

Missing OK If JHU phase visit

Audit Findings No NIH phase audits.

Comments NIH phase only.

9) Variable Name **MEMTIME**

Short Description Logical Memory IIA (Delayed)

Source C1 #9B

Question Text Time elapsed between Logical Memory Immediate and Delayed

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes min = 0 minutes

max = 85 minutes

88 = N/A 99 = Unknown

Missing OK If NA

Audit Findings [JHU Audits]: C1 form error rate = 0.2% (based on 78 forms as of NOV2019)

Comments JHU phase only

10) Variable Name DIGITEST

Short Description Digit Span: Test

Source DERIVED

Question Text Which test defined the digit span scores?

Time of Collection Baseline and Follow-up

Data Type Char

Allowable Codes 1 = WMS-R

2 = WAIS-R

Missing OK If No JHU phase visit.

Audit Findings No NIH phase audits.

Comments NIH phase only.

Indicates the source of data for the digit span data.

11) Variable Name **DIGIF**

Short Description Digit Span Forward: Trials correct

Source C1 #4A

Question Text Total number of trials correct prior to two consecutive errors at the same digit

length

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 12

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1 form error rate = 0.2% (based on 78 forms as of NOV2019)

No NIH phase audits.

Comments JHU phase: C1 #4a answer

NIH phase: based on either WAIS or WMS test. The test used for this value is

12) Variable Name DIGIFLEN

Short Description Digit Span Forward: Length

Source C1 #4B

Question Text Digit span forward length

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 8

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1 form error rate = 0.2% (based on 78 forms as of NOV2019)

No NIH phase audits.

Comments JHU phase: C1 #4b answer

NIH phase: based on either WAIS or WMS test. The test used for this value is

13) Variable Name DIGIB

Short Description Digit Span Backward: Trials correct

Source C1 #5A

Question Text Total number of trials correct prior to two consecutive errors at the same digit

ength

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 12

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1 form error rate = 0.2% (based on 78 forms as of NOV2019)

No NIH phase audits.

Comments JHU phase: C1 #5a answer

NIH phase: based on either WAIS or WMS test. The test used for this value is

14) Variable Name DIGIBLEN

Short Description Digit Span Backward: Length

Source C1 #5B

Question Text Digit span backward length

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 7

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1 form error rate = 0.2% (based on 78 forms as of NOV2019)

No NIH phase audits.

Comments JHU phase: C1 #5b answer

NIH phase: based on either WAIS or WMS test. The test used for this value is

15) Variable Name ANIMALS

Short Description Category Fluency: Total animals named

Source C1 #6A

Question Text Total number of animals named in 60 seconds

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 77

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1 form error rate = 0.2% (based on 78 forms as of NOV2019)

[NIH audits] Error rate = 0.8% (based on complete audits of 28 participants)

Comments None

16) Variable Name **VEG**

Short Description Category Fluency: Total vegetables named

Source C1 #6B

Question Text Total number of vegetables named in 60 seconds

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 77

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1 form error rate = 0.2% (based on 78 forms as of NOV2019)

No NIH phase audits.

17) Variable Name ANINTRU

Short Description Category Fluency: Intrusions, animals

Source C1A #4b

Question Text Number of incorrect answers when asked to name animals.

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 10

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

No NIH phase audits.

Comments None

18) Variable Name ANPERSEV

Short Description Category Fluency: Perseveration, animals

Source C1A #4c

Question Text Number of repeated answers when asked to name animals.

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 10

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

No NIH phase audits.

19) Variable Name VINTRU

Short Description Category Fluency: Intrusions, vegetables

Source C1A #5b

Question Text Number of incorrect answers when asked to name vegetables

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 10

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

No NIH phase audits.

Comments None

20) Variable Name VPERSEV

Short Description Category Fluency: Perseveration, vegetables

Source C1A #5c

Question Text Number of repeated answers when asked to name vegetables

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 10

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

No NIH phase audits.

21) Variable Name TRAILA

Short Description Trail Making Part A: Total number of seconds

Source C1 #7A

Question Text Part A, Total number of seconds to complete

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 150

Unknown Code Reasons:

995 = Physical problem

996 = Cognitive/behavior problem

997 = Other problem 998 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1 form error rate = 0.2% (based on 78 forms as of NOV2019)

[NIH audits] Error rate = 2.3% (based on complete audit of 28 participants)

Comments If participant was not finished by 150 seconds, 150 entered

22) Variable Name TRAILB

Short Description Trail Making Part B: Total number of seconds

Source C1 #7B

Question Text Part B, Total number of seconds to complete

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 300

Unknown Code Reasons:

995 = Physical problem

996 = Cognitive/behavior problem

997 = Other problem 998 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1 form error rate = 0.2% (based on 78 forms as of NOV2019)

Comments If participant was not finished by 300 seconds, 300 entered as score.

23) Variable Name DSST

Short Description Digit Symbol (WAIS-R): Total number correct items

Source C1 #8A

Question Text Total number of items correctly completed in 90 seconds

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 93

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1 form error rate = 0.2% (based on 78 forms as of NOV2019)

[NIH audits] Error rate = 1.4% (based on complete audit of 28 participants)

24) Variable Name FCORR

Short Description Verbal Fluency: Number of correct, letter F

Source C1A #1a

Question Text Number of correct answers when asked to name words beginning with "F".

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 40

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

No NIH phase audits.

Comments None

25) Variable Name FINTRU

Short Description Verbal Fluency: Intrusions, letter F

Source C1A #1b

Question Text Number of incorrect responses when asked to name words beginning with "F".

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 10

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

No NIH phase audits.

26) Variable Name FPERSEV

Short Description Verbal Fluency: Perseveration, letter F

Source C1A #1c

Question Text Number of repeated responses when asked to name words beginning with "F".

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 10

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

No NIH phase audits.

Comments None

27) Variable Name ACORR

Short Description Verbal Fluency: Number of correct, letter A

Source C1A #2a

Question Text Number of correct answers when asked to name words beginning with "A".

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 40

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

No NIH phase audits.

28) Variable Name AINTRU

Short Description Verbal Fluency: Intrusions, letter A

Source C1A #2b

Question Text Number of incorrect answers when asked to name words beginning with "A".

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 10

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

No NIH phase audits.

Comments None

29) Variable Name APERSEV

Short Description Verbal Fluency: Perseveration, letter A

Source C1A #2c

Question Text Number of repeated answers when asked to name words beginning with "A".

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 10

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

No NIH phase audits.

30) Variable Name SCORR

Short Description Verbal Fluency: Number of correct, letter S

Source C1A #3a

Question Text Number of correct answers when asked to name words beginning with "S".

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 40

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

No NIH phase audits.

Comments None

31) Variable Name SINTRU

Short Description Verbal Fluency: Intrusions, letter S

Source C1A #3b

Question Text Number of incorrect answers when asked to name words beginning with "S".

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 10

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

No NIH phase audits.

32) Variable Name SPERSEV

Short Description Verbal Fluency: Perseveration, letter S

Source C1A #3c

Question Text Number of repeated answers when asked to name words beginning with "S".

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 10

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

No NIH phase audits.

Comments None

33) Variable Name BLOCK

Short Description Constructional Praxis, Block design (WAIS-R): Total score

Source C1A #6

Question Text Block Design (WAIS-R), total score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 51

Unknown Code Reasons:

95 = Physical problem

96 = Cognitive/behavior problem

97 = Other problem 98 = Verbal refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

[NIH audits] Error rate = 1.4% (based on complete audit of 28 participants)

34) Variable Name REYCOPY

Short Description Constructional Praxis, Rey Figure Copy: Total score

Source C1A #7

Question Text Rey Figure Copy, total score

Time of Collection Baseline and Follow-up

Data Type Numeric (with decimal)

Allowable Codes Min = 0.0

Max = 36.0

Unknown Code Reason:

99.5 = Physical Problems

99.6 = Cognitive Behavioral Problem

99.7 = Other 99.8 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

[NIH audits] Error rate = 3.5% (based on complete audit of 28 participants)

Comments None

35) Variable Name REYRECAL

Short Description Memory, Rey Figure Recall

Source C1A #8

Question Text Rey Figure Recall task

Time of Collection Baseline and Follow-up

Data Type Numeric (with decimal)

Allowable Codes Min = 0.0

Max = 36.0

Unknown Code Reason:

99.5 = Physical Problems

99.6 = Cognitive Behavioral Problem

99.7 = Other 99.8 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

[NIH audits] Error rate = 5.6% (based on complete audit of 28 participants)

36) Variable Name PAIRED1

Short Description Paired Associates I (New Learning)

Source C1A #9

Question Text WMS-R Paired Associates I (New Learning)

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 24

Unknown Code Reason:

95 = Physical Problems

96 = Cognitive Behavioral Problem

97 = Other 98 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

[NIH audits] Error rate = 3.4% (based on complete audit of 28 participants)

Comments None

37) Variable Name PAIRED2

Short Description Paired Associates II (Delayed Recall)

Source C1A #10

Question Text WMS-R Paired Associates II (Delayed Recall)

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 8

Unknown Code Reason:

95 = Physical Problems

96 = Cognitive Behavioral Problem

97 = Other 98 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

[NIH audits] Error rate = 2.3% (based on complete audit of 28 participants)

38) Variable Name CVLTFORM

Short Description California Verbal Learning Test (CVLT) form

Source C1A #11

Question Text Standard or alternate CVLT form

Time of Collection Baseline and Follow-up

Data Type Character

Allowable Codes 1 = Standard Form

2 = Alternate Form

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

[NIH audits] Error rate = 1.7% (based on complete audit of 28 participants)

Comments None

39) Variable Name **CVLTLTR1**

Short Description CVLT: Number correct trial #1

Source C1A #12

Question Text CVLT word list, # correct in Trial 1

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 16

Unknown Code Reason:

95 = Physical Problems

96 = Cognitive Behavioral Problem

97 = Other 98 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

[NIH audits] Error rate = 1.7% (based on complete audit of 28 participants)

40) Variable Name CVLTLTR2

Short Description CVLT: Number correct trial #2

Source C1A #13, not available at NIH visits

Question Text CVLT word list, # correct in Trial 2

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 16

Unknown Code Reason:

95 = Physical Problems

96 = Cognitive Behavioral Problem

97 = Other 98 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

No NIH phase audits.

Comments None

41) Variable Name CVLTLTR3

Short Description CVLT: Number correct trial #3

Source C1A #14, not available at NIH visits

Question Text CVLT word list, # correct in Trial 3

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 16

Unknown Code Reason:

95 = Physical Problems

96 = Cognitive Behavioral Problem

97 = Other 98 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

No NIH phase audits.

42) Variable Name CVLTLTR4

Short Description CVLT: Number correct trial #4

Source C1A #15, not available at NIH visits

Question Text CVLT word list, # correct in Trial 4

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 16

Unknown Code Reason:

95 = Physical Problems

96 = Cognitive Behavioral Problem

97 = Other 98 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

No NIH phase audits.

Comments None

43) Variable Name CVLTLTR5

Short Description CVLT: Number correct trial #5

Source C1A #16

Question Text CVLT word list, # correct in Trial #5

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 16

Unknown Code Reason:

95 = Physical Problems

96 = Cognitive Behavioral Problem

97 = Other 98 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

[NIH audits] Error rate = 1.8% (based on complete audit of 28 participants)

44) Variable Name CVLTTOTL

Short Description CVLT: Number correct trials #1 - #5

Source C1A #17

Question Text CVLT word list, total number correct (sum of trials #1 to #5)

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 80

Unknown Code Reason:

95 = Physical Problems

96 = Cognitive Behavioral Problem

97 = Other 98 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

[NIH audits] Error rate = 1.7% (based on complete audit of 28 participants)

Comments None

45) Variable Name CVLTSDFR

Short Description CVLT: Short delay free recall

Source C1A #18

Question Text CVLT word list, short delay free recall

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 16

Unknown Code Reason:

95 = Physical Problems

96 = Cognitive Behavioral Problem

97 = Other 98 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

[NIH audits] Error rate = 1.7% (based on complete audit of 28 participants)

46) Variable Name CVLTSDCR

Short Description CVLT: Short delay cued recall C1A #19

Source CVLT word list, short delay cued recall

Question Text Baseline and Follow-up

Time of Collection Numeric

Data Type Min = 0 ... Max = 16

Allowable Codes

Reason:

Unknown Code 95 = Physical Problems

96 = Cognitive Behavioral Problem

97 = Other 98 = Refusal

NA

Missing OK If [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

Audit Findings

[NIH audits] Error rate = 1.7% (based on complete audit of 28 participants)

Comments None

47) Variable Name CVLTLDFR

Short Description CVLT: Long delay free recall

Source C1A #20

Question Text CVLT word list, long delay free recall

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 16

Unknown Code Reason:

95 = Physical Problems

96 = Cognitive Behavioral Problem

97 = Other 98 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

[NIH audits] Error rate = 1.7% (based on complete audit of 28 participants)

48) Variable Name CVLTLDCR

Short Description CVLT: Long delay cued recall C1A #21

Source CVLT word list, long delay cued recall

Question Text Baseline and Follow-up

Time of Collection Numeric

Data Type Min = 0 ... Max = 16

Allowable Codes

Reason:

Unknown Code 95 = Physical Problems

96 = Cognitive Behavioral Problem

97 = Other 98 = Refusal

NA

Missing OK If [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

Audit Findings

[NIH audits] Error rate = 1.7% (based on complete audit of 28 participants)

Comments None

49) Variable Name **CVLTSMTO**

Short Description CVLT: Semantic clustering trials #1 - #5

Source C1A #22

Question Text CVLT semantic clustering trials #1 - #5

Time of Collection Baseline and Follow-up

Data Type Numeric (with decimal)

Allowable Codes Min = -4.0

Max = 9.0

Unknown Code Reason:

99.5 = Physical Problems

99.6 = Cognitive Behavioral Problem

99.7 = Other 99.8 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

[NIH audits] Error rate = 1.7% (based on complete audit of 28 participants)

50) Variable Name CVLTTRRC

Short Description CVLT: Percent recall from recency region

Source C1A #23

Question Text CVLT, % Recall from Recency region

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 100

Unknown Code Reason:

995 = Physical Problems

996 = Cognitive Behavioral Problem

997 = Other 998 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on75 forms as of NOV2019)

[NIH audits] Error rate = 1.7% (based on complete audit of 28 participants)

Comments None

51) Variable Name CVLT15SL

Short Description CVLT: Total learning slope trial #1 – trial #5

Source C1A #24

Question Text CVLT, Slope, across number correct from trial #1 (CVLTLTR1) to trial #5 (CVLTLTR5)

Time of Collection Baseline and Follow-up

Data Type Numeric (with decimal)

Allowable Codes Min = -5.0

Max = 5.0

Unknown Code Reason:

95/99.5 = Physical Problems

96/99.6 = Cognitive Behavioral Problem

97/99.7 = Other 98/99.8 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

[NIH audits] Error rate = 1.7% (based on complete audit of 28 participants)

Time of Collection

52) Variable Name CVLTLDT5

Short Description CVLT: % long delay FR vs. trial #5

Source C1A #25

Question Text CVLT, Percentage of words recalled at Long Delay Free Recall relative to

number of words recalled at Trial #5 ([100*CVLTLDFR/CVLTLTR5]-100)

Baseline and Follow-up

Data Type

Allowable Codes Numeric (with decimal)

Min = -100.0

Unknown Code Max = 900.0

Reason:

999.5 = Physical Problems

999.6 = Cognitive Behavioral Problem

999.7 = Other 999.8 = Refusal

Missing OK If

Audit Findings NA

No NIH phase audits.

Comments None

53) Variable Name CVLTTREP

Short Description CVLT: Total repetitions

Source C1A #26

Question Text CVLT, Total Repetitions

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 92

Unknown Code Reason:

95 = Physical Problems

96 = Cognitive Behavioral Problem

97 = Other 98 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

[NIH audits] Error rate = 1.7% (based on complete audit of 28 participants)

54) Variable Name CVLTTINT

Short Description CVLT: Total intrusions

Source C1A #27

Question Text CVLT, Total Intrusions

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 56

Unknown Code Reason:

95 = Physical Problems

96 = Cognitive Behavioral Problem

97 = Other 98 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

[NIH audits] Error rate = 1.7% (based on complete audit of 28 participants)

Comments None

55) Variable Name CVLTRCHT

Short Description CVLT: Delayed recognition hits

Source C1A #28

Question Text CVLT, Delayed Recognition Hits (number correctly recognized)

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 16

Unknown Code Reason:

Reason:

95 = Physical Problems

96 = Cognitive Behavioral Problem

97 = Other 98 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

[NIH audits] Error rate = 1.7% (based on complete audit of 28 participants)

56) Variable Name CVLTRCFA

Short Description CVLT: Delayed recognition false positive

Source C1A #29

Question Text CVLT, Delayed Recognition False Positive (number incorrectly recognized)

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 36

Unknown Code Reason:

Reason:

95 = Physical Problems

96 = Cognitive Behavioral Problem

97 = Other 98 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

[NIH audits] Error rate = 1.7% (based on complete audit of 28 participants) [NIH

audits] Error rate = 1.7% (based on complete audit of 28 participants)

57) Variable Name **CVLTTODM**

Short Description CVLT: Total recognition discriminability

Source C1A #30

Question Text CVLT, Total Recognition Discriminability

Time of Collection Baseline and Follow-up

Data Type Numeric (with decimal)

Allowable Codes Min = -4.1

Max = 4.1

Unknown Code Reason:

95/99.5 = Physical Problems

96/99.6 = Cognitive Behavioral Problem

97/99.7 = Other 98/99.8 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.4% (based on 75 forms as of NOV2019)

[NIH audits] Error rate = 1.7% (based on complete audit of 28 participants)

Comments None

58) Variable Name CVLTSMDM

Short Description CVLT: Semantic recognition discriminability

Source C1A #31

Question Text CVLT, Semantic Recognition Discriminability

Time of Collection Baseline and Follow-up

Data Type Numeric (with decimal)

Allowable Codes Min = -4.1

Max = 4.1

Unknown Code Reason:

95/99.5 = Physical Problems

96/99.6 = Cognitive Behavioral Problem

97/99.7 = Other 98/99.8 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

[NIH audits] Error rate = 1.7% (based on complete audit of 28 participants)

59) Variable Name **DHAND**

Short Description Grooved Pegboard: Dominant hand (seconds)

Source C1A #32

Question Text Speed on grooved pegboard. Dominant hand (time to complete in seconds).

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 300

Unknown Code Reason:

995 = Physical Problems

996 = Cognitive Behavioral Problem

997 = Other 998 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

No NIH phase audits.

Comments None

60) Variable Name NONDHAND

Short Description Grooved Pegboard: Non-dominant hand (seconds)

Source C1A #33

Question Text Speed on grooved pegboard. Non-dominant hand (time to complete in seconds).

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 300

Unknown Code Reason:

995 = Physical Problems

996 = Cognitive Behavioral Problem

997 = Other 998 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

No NIH phase audits.

61) Variable Name BOSTON

Short Description Boston Naming Test

Source C1 #10a, NIH

Question Text Number of correct responses

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 30 (for JHU visits 101+); Max=60 (for NIH visits 1-10)

Unknown Code Reason:

95 = Physical Problems

96 = Cognitive Behavioral Problem

97 = Other 98 = Refusal

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

No NIH phase audits.

Comments At the NIH, five individuals completed a 60-item Boston naming test, and have values

higher than 30. Some individuals complete a 20-item Boston naming test. At JHU,

individuals complete a 30-item version.

62) Variable Name BNTPCT

Short Description Boston Naming Test Percent

Source DERIVED

Question Text Percentage correct responses out of total ((number correct/total) *100)

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0%

Max = 100%

Missing OK If NA

Audit Findings [JHU Audits]: C1a form error rate = 0.3% (based on 75 forms as of NOV2019)

No NIH phase audits.

63) Variable Name FRUITL

Short Description Category Fluency: Fruit number generated in 60 seconds

Source NIH

Question Text Total number of words generated in the category Fruits

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 77

Missing OK If NA

Audit Findings No NIH phase audits

Comments None

64) Variable Name FRUIPER

Short Description Category Fluency: Fruit number perseverations

Source NIH

Question Text Number of words repeated in the category Fruits

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 60

Missing OK If NA

Audit Findings No NIH phase audits

65) Variable Name FRUIINT

Short Description Category Fluency: Fruit number intrusions

Source NIH

Question Text Number of words incorrect in the category Fruits

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 60

Missing OK If NA

Audit Findings No NIH phase audits

Comments None

66) Variable Name JOLOTOTL

Short Description Judgment of Line Orientation number correct /60

Source NIH

Question Text Total correct

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 60

Missing OK If NA

Audit Findings No NIH phase audits

67) Variable Name MATTIS

Short Description Dementia Rating Scale Number Correct/144

Source NIH

Question Text Sum of Attention, Memory, Initiation and Preservation, Construction, Conceptualization

Time of Collection Baseline and Follow-up Numeric

Data Type Numeric

Allowable Codes

Min = 0 Max = 144

Missing OK If NA

Audit Findings No NIH phase audits

Comments None

68) Variable Name SUPERMKT

Short Description Category Fluency: Supermarket items generated in 60 seconds

Source NIH

Question Text Number of items generated

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 77

Missing OK If NA

Audit Findings No NIH phase audits

69 Variable Name NART_TL

Short Description National Adult Reading Test number correct/50

Source NIH

Question Text Total Correct (number of errors subtracted from number of items)

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 50

Missing OK If NA

Audit Findings No NIH phase audits

Comments None

70) Variable Name NART_IQ

Short Description NART: Estimated Verbal IQ

Source NIH

Question Text NART IQ Score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 50

Max = 150

Missing OK If NA

Audit Findings No NIH phase audits

71) Variable Name INFO

Short Description WMS: Information and Orientation

Source NIH

Question Text Raw score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 14

Missing OK If NA

Audit Findings No NIH phase audits

Comments None

72) Variable Name FIGURAL

Short Description WMS: Figural memory

Source NIH

Question Text Raw score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 10

Missing OK If NA

Audit Findings No NIH phase audits

73) Variable Name VISPAIR1

Short Description WMS: Visual Paired Associates 1

Source NIH

Question Text Raw score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 18

Missing OK If NA

Audit Findings No NIH phase audits

Comments None

74) Variable Name VISREPR1

Short Description Visual Reproduction 1

Source NIH

Question Text Raw score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 41

Missing OK If NA

Audit Findings No NIH phase audits

75) Variable Name VISMEMSP

Short Description WMS: Visual Memory Span (Sum of forward & backward tapping span)

Source NIH

Question Text Raw score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 26

Missing OK If NA

Audit Findings No NIH phase audits

Comments None

76) Variable Name VISPAIR2

Short Description WMS: Visual Paired Associates 2 (Delayed Recall)

Source NIH

Question Text Raw score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 6

Missing OK If NA

Audit Findings

No NIH phase audits

77) Variable Name VISREPR2

Short Description WMS: Visual Reproduction 2 (Delayed Recall)

Source NIH

Question Text Raw score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 41

Missing OK If NA

Audit Findings No NIH phase audits

Comments None

78) Variable Name WMSRVERB

Short Description WMS: Revised Summary Verbal Memory

Source NIH

Question Text Indexes score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 50

Max = 150

Missing OK If NA

Audit Findings No NIH phase audits

79) Variable Name WMSRVISU

Short Description WMS: Revised Summary Visual Memory

Source NIH

Question Text Indexes score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 50

Max = 150

Missing OK If NA

Audit Findings No NIH phase audits

Comments None

80) Variable Name WMSRGEN

Short Description WMS: Revised Summary General Memory

Source NIH

Question Text Raw Score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 50

Max = 150

Missing OK If NA

Audit Findings No NIH phase audits

81) Variable Name WMSRDELY

Short Description WMS: Revised Summary Delayed Memory

Source NIH

Question Text Indexes score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 50

Max = 150

Missing OK If NA

Audit Findings No NIH phase audits

Comments None

82) Variable Name WAISVCRW

Short Description Wechsler Adult Intelligence Vocab. Raw score/70

Source NIH

Question Text Raw score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 70

Missing OK If NA

Audit Findings No NIH phase audits

83) Variable Name WAISVCSS

Short Description WAIS: Vocab. Scaled score/19

Source NIH

Question Text Scaled score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 19

Missing OK If NA

Audit Findings No NIH phase audits

Comments None

84) Variable Name WAISVCAC

Short Description WAIS: Vocab. age-corrected/19

Source NIH

Question Text Age corrected score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 19

Missing OK If NA

Audit Findings No NIH phase audits

85) Variable Name WAISSMRW

Short Description WAIS: Similarities raw score/28

Source NIH

Question Text Raw score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 28

Missing OK If NA

Audit Findings No NIH phase audits

Comments None

86) Variable Name WAISSMSS

Short Description WAIS: Similarities scaled score/19

Source NIH

Question Text Scaled score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 19

Missing OK If NA

Audit Findings No NIH phase audits

87) Variable Name WAISSMAC

Short Description WAIS: Similarities age-corrected score/19

Source NIH

Question Text Age corrected score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 28

Missing OK If NA

Audit Findings No NIH phase audits

Comments None

88) Variable Name WAISINRW

Short Description WAIS: Information raw score/29

Source NIH

Question Text Raw score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 29

Missing OK If NA

Audit Findings No NIH phase audits

89) Variable Name WAISINSS

Short Description WAIS: Information scaled score/19

Source NIH

Question Text Scaled score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 19

Missing OK If NA

Audit Findings No NIH phase audits

Comments None

90) Variable Name WAISINAC

Short Description WAIS: Information age corrected/19

Source NIH

Question Text Age corrected score

Time of Collection Baseline and Follow-up

Data Type Numeric

Min = 0Max = 19

Missing OK If NA

Audit Findings No NIH phase audits

91) Variable Name WAISPARW

Short Description WAIS: Arithmetic raw score/19

Source NIH

Question Text Raw score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 19

Missing OK If NA

Audit Findings No NIH phase audits

Comments None

92) Variable Name WAISPASS

Short Description WAIS: Arithmetic scaled score/19

Source NIH

Question Text Scaled score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 19

Missing OK If NA

Audit Findings No NIH phase audits

93) Variable Name WAISPAAC

Short Description WAIS: Arithmetic age corrected/19

Source NIH

Question Text Age corrected score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 19

Missing OK If NA

Audit Findings No NIH phase audits

Comments None

94) Variable Name WAISPCRW

Short Description WAIS: Picture Completion raw score/20

Source NIH

Question Text Raw score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 20

Missing OK If NA

Audit Findings No NIH phase audits

95) Variable Name WAISPCSS

Short Description WAIS: Picture Completion scaled score/19

Source NIH

Question Text Scaled score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 19

Missing OK If NA

Audit Findings No NIH phase audits

Comments None

96) Variable Name WAISRCAC

Short Description WAIS: Picture Completion age Corrected/19

Source NIH

Question Text Age corrected score

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0

Max = 19

Missing OK If NA

Audit Findings No NIH phase audits

97) Variable Name **B17101**

Short Description New BIOCARD participant

Source B17 #01

Question Text Is this a new participant?

Time of Collection Baseline and Follow-up

Data Type Char

Allowable Codes 1 = Yes

0 = No

Missing OK If NA

Audit Findings NA

Comments None

98) Variable Name Composite_global

Short Description Global cognitive composite score

Source Calculated

Question Text Global cognitive composite score?

Time of Collection Baseline and Follow-up

Data Type Numerical

Allowable Codes Decimal number

Missing OK If NA

Audit Findings NA

Comments

Calculated for all NIH and JHU visits over time (except in the case of missing data). An a prioriderived composite score based on 4 measures that were previously identified to be the best combination of cognitive predictors of time to progress from normal cognition to MCI clinical symptom onset, as described in Soldan et al., 2016 (Hypothetical Preclinical Alzheimer Disease Groups and Longitudinal Cognitive Change; JAMA Neurol; doi:

10.1001/jamaneurol.2016.0194). The following 4 tests are included in this composite score: (1) Paired Associates immediate, (2) Logical Memory delayed recall (Story A), (3) Boston Naming, and (4) Digit-Symbol Substitution.

99) Variable Name Composite_episodic_memory

> **Short Description** Cognitive composite score for verbal episodic memory

> > Source Calculated

Question Text Cognitive composite score for verbal episodic memory?

Time of Collection Baseline and Follow-up

Data Type Numerical

Allowable Codes Decimal number

Missing OK If NA

Audit Findings NA

Comments Calculated for all JHU visits over time (except in the case of missing data). A summary factor score based on 3 measures that were previously identified as loading on a verbal episodic memory latent variable using confirmatory factor analysis (CFA). Details about the CFA and calculation of the composite score are described in the supplementary materials of Soldan et al., 2019 (Resting-State Functional Connectivity Is Associated With Cerebrospinal Fluid Levels of the Synaptic Protein NPTX2 in Non-demented Older Adults; Front Aging Neurosci; doi: 10.3389/fnagi.2019.00132). The following 3 tests are included in this composite score: (1) Paired Associates immediate, (2) Logical Memory delayed recall (Story A), and (3) California Verbal Learning Test (CVLT) total recall on Trials 1-5. Note: the z-scores used to create this composite score were calculated using the means and standard deviations from all available JHU cognitive data, i.e., from visit 101 onwards.

100) Variable Name Composite_executive

> Short Description Cognitive composite score for executive function

> > Source Calculated

Question Text Cognitive composite score for executive function?

Time of Collection Baseline and Follow-up

Data Type Numerical

Allowable Codes Decimal number

Missing OK If NA

Audit Findings NA

Comments Calculated for all JHU visits over time (except in the case of missing data). A summary factor score based on 3 measures that were previously identified as loading on an executive function latent variable using confirmatory factor analysis (CFA). Details about the CFA and calculation of the composite score are described in the supplementary materials of Soldan et al., 2019 (Resting-State Functional Connectivity Is Associated With Cerebrospinal Fluid Levels of the Synaptic Protein NPTX2 in Non-demented Older Adults; Front Aging Neurosci; doi: 10.3389/fnagi.2019.00132). The following 3 tests are included in this composite score: (1) Digit Span backwards, (2) Trails B (reverse scored), and (3) Digit-Symbol Substitution. Note: the zscores used to create this composite score were calculated using the means and standard deviations from all available JHU cognitive data, i.e., from visit 101 onwards.

101) Variable Name Composite_visuospatial

> **Short Description** Cognitive composite score for visuospatial processing

> > Source Calculated

Question Text Cognitive composite score for visuospatial processing?

Time of Collection Baseline and Follow-up

Data Type Numerical

Allowable Codes Decimal number

Missing OK If NA

Audit Findings NA

Comments Calculated for all JHU visits over time (except in the case of missing data). A summary factor score based on 3 measures that were previously identified as loading on a visuospatial processing latent variable using confirmatory factor analysis (CFA). Details about the CFA and calculation of the composite score are described in the supplementary materials of Soldan et al., 2019 (Resting-State Functional Connectivity Is Associated With Cerebrospinal Fluid Levels of the Synaptic Protein NPTX2 in Non-demented Older Adults; Front Aging Neurosci; doi: 10.3389/fnagi.2019.00132). The following 3 tests are included in this composite score: (1) Rev Figure copy, (2) Rey Figure recall, and (3) Block Design. Note: the z-scores used to create this composite score were calculated using the means and standard deviations from all available JHU cognitive data, i.e., from visit 101 onwards.

102) Variable Name Composite_language

> Short Description Cognitive composite score for language

> > Source Calculated

Question Text Cognitive composite score for language?

Time of Collection Baseline and Follow-up

Data Type Numerical

Allowable Codes Decimal number

Missing OK If NA

Audit Findings NA

Comments Calculated for all JHU visits over time (except in the case of missing data). A summary factor score based on 3 measures that were previously identified as loading on a language latent variable using confirmatory factor analysis (CFA). Details about the CFA and calculation of the composite score are described in the supplementary materials of Soldan et al., 2019 (Resting-State Functional Connectivity Is Associated With Cerebrospinal Fluid Levels of the Synaptic Protein NPTX2 in Non-demented Older Adults; Front Aging Neurosci; doi: 10.3389/fnagi.2019.00132). The following 3 tests are included in this composite score: (1) Boston Naming, (2) category fluency (animals), and (3) letter fluency (sum of F, A, and S). Note: the z-scores used to create this composite score were calculated using the means and standard deviations from all available JHU cognitive data, i.e., from visit 101 onwards.