

WHIMS Coordinating Center Document

Created: April 29, 2020

Dataset Name: ECHO_Public_MAY2020_Final

Description: WHIMS ECHO

Structure: multiple rows per participant

Variable #: 1
 SAS name: id
 SAS label: WHI Common ID
 Categories: cognitive
 Usage Notes: none

Variable #: 2
 SAS name: final_dx
 SAS label: Final Diagnosis
 Categories: cognitive
 Usage Notes: none

	final_dx	PERCENT	Number
	1 No Dementia	84.8	14943
	2 Minor Cognitive Impairment	4.2	758
	3 Probable Dementia	4.2	730
	4 Unable to Classify - Cognitive Impairment	3.6	635
	5 Unable to Classify - Functional Impairment	0.0	2
	6 Unable to Classify - No Cognitive Impairment + No DQ	3.2	567

Variable #: 3
 SAS name: finalclass
 SAS label: Final Classification
 Categories: cognitive
 Usage Notes: none

	finalclass	PERCENT	Number
	.	98.8	17420
	1 Probable Vascular	0.0	6
	2 Probable Alzheimer's	0.2	35
	3 Dementia: Mixed Type	0.0	6
	4 Dementia: Etiology Unknown	1.0	161
	5 Other	0.0	7

Variable #: 4
 SAS name: tics_score
 SAS label: TICS total score
 Categories: cognitive
 Usage Notes: none

N	Mean	StdDeviation	Minimum	Maximum
17635	34	5	0	50

Variable #: 5
SAS name: score_01
SAS label: TICS item 1
Categories: cognitive
Usage Notes: none

score_01	PERCENT	Number
.	0.0	1
2	0.2	24
3	0.2	36
4	0.4	54
5	0.6	118
6	1.4	233
7	4.2	732
8	18.6	3266
9	74.6	13171

Variable #: 6
SAS name: score_02
SAS label: TICS item 2
Categories: cognitive
Usage Notes: none

score_02	PERCENT	Number
.	0.0	3
0	1.4	232
1	5.0	872
2	93.8	16528

Variable #: 7
SAS name: score_03
SAS label: TICS item 3
Categories: cognitive
Usage Notes: none

score_03	PERCENT	Number
.	0.0	4
0	0.8	125
1	2.2	382
2	7.4	1294
3	16.8	2953
4	24.0	4224

score_03	PERCENT	Number
5	22.4	3965
6	14.6	2563
7	7.4	1292
8	3.2	554
9	1.2	195
10	0.4	84

Variable #: 8

SAS name: score_04

SAS label: TICS item 4

Categories: cognitive

Usage Notes: none

score_04	PERCENT	Number
.	0.0	5
0	2.8	483
1	6.6	1154
2	7.8	1359
3	13.6	2400
4	24.6	4341
5	44.8	7893

Variable #: 9

SAS name: score_05

SAS label: TICS item 5

Categories: cognitive

Usage Notes: none

score_05	PERCENT	Number
.	0.0	7
0	0.6	100
1	99.4	17528

Variable #: 10

SAS name: score_06

SAS label: TICS item 6

Categories: cognitive

Usage Notes: none

score_06	PERCENT	Number
.	0.0	7
0	0.2	52
1	99.6	17576

Variable #: 11
 SAS name: score_07
 SAS label: TICS item 7
 Categories: cognitive
 Usage Notes: none

score_07	PERCENT	Number
.	0.0	7
0	6.6	1165
1	93.4	16463

Variable #: 12
 SAS name: score_08
 SAS label: TICS item 8
 Categories: cognitive
 Usage Notes: none

score_08	PERCENT	Number
.	0.0	7
0	1.0	191
1	98.8	17437

Variable #: 13
 SAS name: score_09
 SAS label: TICS item 9
 Categories: cognitive
 Usage Notes: none

score_09	PERCENT	Number
.	0.0	7
0	8.8	1561
1	91.2	16067

Variable #: 14
 SAS name: score_10
 SAS label: TICS item 10
 Categories: cognitive
 Usage Notes: none

score_10	PERCENT	Number
.	0	7
0	12	2124
1	88	15504

Variable #: 15

SAS name: score_11

SAS label: TICS item 11

Categories: cognitive

Usage Notes: none

score_11	PERCENT	Number
.	0.0	7
0	3.2	576
1	22.8	4015
2	74.0	13037

Variable #: 16

SAS name: score_12

SAS label: TICS item 12

Categories: cognitive

Usage Notes: none

score_12	PERCENT	Number
.	0.0	8
0	32.6	5766
1	17.4	3068
2	49.8	8793

Variable #: 17

SAS name: score_13

SAS label: TICS item 13

Categories: cognitive

Usage Notes: none

score_13	PERCENT	Number
.	0	7
0	2	341
1	7	1245
2	91	16042

Variable #: 18

SAS name: score_14

SAS label: TICS item 14
Categories: cognitive
Usage Notes: none

score_14	PERCENT	Number
.	0.0	7
0	2.4	437
1	97.4	17191

Variable #: 19
SAS name: score_15
SAS label: TICS item 15
Categories: cognitive
Usage Notes: none

score_15	PERCENT	Number
.	0.0	7
0	6.8	1187
1	93.2	16441

Variable #: 20
SAS name: score_16
SAS label: TICS item 16
Categories: cognitive
Usage Notes: none

score_16	PERCENT	Number
.	0.0	7
0	10.4	1833
1	11.2	1987
2	19.4	3431
3	22.4	3950
4	17.2	3017
5	10.0	1781
6	5.2	903
7	2.4	427
8	1.0	193
9	0.4	81
10	0.2	25

Variable #: 21
SAS name: ebmt_score
SAS label: East Boston Memory total score

Categories: cognitive
Usage Notes: none

ebmt_score	PERCENT	Number
.	0.4	59
0	0.2	18
1	0.0	13
2	0.2	29
3	0.4	63
4	0.6	119
5	1.2	222
6	3.2	549
7	9.8	1713
8	16.8	2955
9	14.4	2540
10	19.6	3440
11	16.2	2843
12	17.4	3072

Variable #: 22
SAS name: vfa_wordcount
SAS label: Verbal Fluency Animals total score
Categories: cognitive
Usage Notes: none

N	Mean	StdDeviation	Minimum	Maximum
17569	17	6	0	67

Variable #: 23
SAS name: oraltrail_errorsa
SAS label: Oral Trails total errors for Part A
Categories: cognitive
Usage Notes: none

oraltrail_errorsa	PERCENT	Number
.	0.4	64
0	98.0	17279
1	1.6	275
2	0.0	9
4	0.0	1
5	0.0	7

Variable #: 24

SAS name: oraltrail_correcta

SAS label: Oral Trails total correct for Part A

Categories: cognitive

Usage Notes: none

oraltrail_correcta	PERCENT	Number
.	0.4	64
0	0.0	5
2	0.0	1
9	0.0	2
12	0.0	3
13	0.0	2
14	0.0	1
15	0.0	1
17	0.0	1
20	0.0	6
21	0.0	1
22	0.0	1
23	0.0	1
24	0.0	16
25	99.4	17530

Variable #: 25

SAS name: oraltrail_timea

SAS label: Oral Trails total time in seconds for Part A

Categories: cognitive

Usage Notes: none

oraltrail_timea	PERCENT	Number
.	0.4	62
0	0.0	2
06	0.0	2
07	0.0	3
08	0.0	9
09	0.0	6
10	17.2	3031
11	11.8	2072
12	7.8	1392
121	0.0	1

oraltrail_timea	PERCENT	Number
13	5.0	898
14	3.2	562
15	1.8	317
16	1.4	253
17	1.0	176
18	0.8	128
19	0.4	70
20	0.2	52
21	0.2	43
22	0.2	34
23	0.2	23
24	0.0	15
25	0.2	30
26	0.0	5
27	0.0	15
28	0.0	8
29	0.0	4
30	0.0	7
31	0.0	5
32	0.0	3
33	0.0	2
34	0.0	2
35	0.0	5
36	0.0	6
37	0.0	2
38	0.0	4
39	0.0	4
4	0.0	8
40	0.0	3
41	0.0	2
43	0.0	1
44	0.0	1
46	0.0	1
48	0.0	1
5	0.2	29
50	0.0	1

oraltrail_timea	PERCENT	Number
514	0.0	1
57	0.0	1
58	0.0	1
6	2.0	352
7	8.4	1487
8	17.4	3068
88	0.0	1
9	19.4	3417
DC	0.0	7

Variable #: 26

SAS name: oraltrail_errorsb

SAS label: Oral Trails total errors for Part B

Categories: cognitive

Usage Notes: none

oraltrail_errorsb	PERCENT	Number
.	0.4	65
0	51.0	8983
1	20.0	3524
2	11.4	2000
3	6.8	1186
4	3.6	625
5	7.0	1252

Variable #: 27

SAS name: oraltrail_correctb

SAS label: Oral Trails total correct for Part B

Categories: cognitive

Usage Notes: none

oraltrail_correctb	PERCENT	Number
.	0.4	65
0	1.6	281
1	0.0	5
2	0.0	5
3	0.0	2
4	0.0	3
5	0.0	4

oraltrail_correctb	PERCENT	Number
6	0.0	13
7	0.2	25
8	0.0	17
9	0.2	51
10	0.2	37
11	0.4	77
12	0.4	57
13	0.6	91
14	0.4	60
15	0.8	125
16	0.8	135
17	0.8	144
18	0.4	85
19	0.8	145
20	0.4	85
21	0.6	122
22	0.4	69
23	0.8	138
24	0.8	143
25	88.8	15651

Variable #: 28

SAS name: oraltrail_timeb

SAS label: Oral Trails total time in seconds for Part B

Categories: cognitive

Usage Notes: none

oraltrail_timeb	PERCENT	Number
	0.4	85
1	0.0	1
10	0.0	1
100	0.2	29
101	0.2	27
102	0.2	26
103	0.2	31
104	0.2	26
105	0.2	30
106	0.0	12
107	0.2	20
108	0.2	22
109	0.0	11
11	0.0	6
110	0.0	16
111	0.2	19
112	0.2	21
113	0.2	19
114	0.0	10
115	0.0	17
116	0.0	10
117	0.2	20
118	0.0	17
119	0.0	15
12	0.0	5
120	0.2	19
121	0.2	19
122	0.0	9
123	0.0	11
124	0.0	8
125	0.0	16
126	0.0	8
127	0.0	10
128	0.0	8
129	0.0	5
13	0.2	22

oraltrail_timeb	PERCENT	Number
130	0.0	9
131	0.0	10
132	0.0	8
133	0.0	6
134	0.0	8
135	0.0	1
136	0.0	5
137	0.0	13
138	0.0	5
139	0.0	5
14	0.2	30
140	0.0	10
141	0.0	6
142	0.0	9
143	0.0	5
144	0.0	6
145	0.0	5
146	0.0	8
147	0.0	3
148	0.0	5
149	0.0	5
15	0.2	38
150	0.0	4
151	0.0	6
152	0.0	5
153	0.0	3
154	0.0	2
155	0.0	2
156	0.0	2
157	0.0	2
159	0.0	2
16	0.4	72
160	0.0	1
161	0.0	1
162	0.0	2
163	0.0	1

oraltrail_timeb	PERCENT	Number
164	0.0	1
166	0.0	3
167	0.0	3
168	0.0	2
169	0.0	1
17	0.6	106
170	0.0	1
171	0.0	1
172	0.0	1
173	0.0	2
175	0.0	4
176	0.0	1
177	0.0	3
179	0.0	1
18	1.0	159
181	0.0	2
184	0.0	1
185	0.0	1
189	0.0	2
19	1.2	210
190	0.0	1
192	0.0	1
196	0.0	1
197	0.0	2
198	0.0	2
199	0.0	1
20	1.6	281
200	0.0	2
202	0.0	1
203	0.0	1
21	2.0	357
215	0.0	1
216	0.0	1
22	2.4	406
220	0.0	1
222	0.0	1

oraltrail_timeb	PERCENT	Number
225	0.0	1
23	2.6	445
232	0.0	1
24	2.8	485
242	0.0	1
25	3.2	547
26	3.0	544
27	3.0	525
28	2.8	501
29	2.6	453
30	2.8	484
300	3.2	556
31	2.4	436
32	2.6	453
33	2.0	369
34	2.0	346
35	1.8	324
36	1.8	311
37	1.6	280
38	1.6	290
39	1.6	295
40	1.4	250
41	1.2	223
42	1.2	216
43	1.2	199
44	1.2	210
45	1.2	225
46	1.0	186
47	1.0	181
48	1.2	205
49	1.0	159
50	1.0	180
51	0.8	156
52	0.8	149
53	0.8	138
54	0.8	141

oraltrail_timeb	PERCENT	Number
55	0.8	140
56	0.8	142
57	0.8	126
58	0.8	138
59	0.8	149
60	0.8	153
61	0.6	104
62	0.6	99
63	0.6	104
64	0.6	97
65	0.6	111
66	0.6	101
67	0.6	96
68	0.6	95
69	0.4	87
7	0.0	1
70	0.4	77
71	0.4	83
72	0.4	84
73	0.4	72
74	0.4	72
75	0.4	75
76	0.4	74
77	0.6	90
78	0.4	57
79	0.4	55
8	0.0	1
80	0.4	74
81	0.4	54
82	0.4	59
83	0.4	66
84	0.2	50
85	0.2	48
86	0.2	51
87	0.4	58
88	0.2	50

oraltrail_timeb	PERCENT	Number
89	0.2	35
9	0.0	1
90	0.2	39
91	0.4	60
92	0.2	32
93	0.2	31
94	0.2	40
95	0.2	33
96	0.2	35
97	0.2	37
98	0.2	37
DC	7.4	1292
refusal	0.0	4

Variable #: 29

SAS name: digit_forwardscore

SAS label: Digit Span total score for digits forward

Categories: cognitive

Usage Notes: none

digit_forwardscore	PERCENT	Number
.	0.6	89
0	0.2	34
1	0.0	5
2	0.2	45
3	1.0	175
4	5.4	950
5	11.8	2089
6	21.6	3800
7	15.4	2714
8	14.4	2529
9	10.6	1875
10	8.0	1410
11	5.4	946
12	3.0	539
13	1.6	279
14	0.8	156

Variable #: 30

SAS name: digit_backwardscore

SAS label: Digit Span total score for digits backward

Categories: cognitive

Usage Notes: none

digit_backwardscore	PERCENT	Number
.	0.6	89
0	1.4	259
1	0.8	131
2	2.6	454
3	3.6	638
4	12.8	2265
5	16.2	2862
6	23.8	4214
7	14.0	2466
8	9.2	1620
9	6.0	1041
10	3.6	640
11	2.0	356
12	1.6	275
13	1.0	178
14	0.8	147

Variable #: 31

SAS name: gds_score

SAS label: Geriatric Depression total score

Categories: cognitive

Usage Notes: none

gds_score	PERCENT	Number
.	0.6	121
0	32.6	5743
1	24.2	4278
2	16.6	2941
3	9.2	1638
4	5.8	1011
5	3.6	626
6	2.4	417
7	1.6	295

gds_score	PERCENT	Number
8	1.2	196
9	0.8	128
10	0.6	94
11	0.4	68
12	0.2	38
13	0.2	28
14	0.0	10
15	0.0	3

Variable #: 32

SAS name: insomnia

SAS label: WHI Insomnia Rating Scale total score

Categories: cognitive

Usage Notes: none

insomnia	PERCENT	Number
.	0.8	127
0	6.4	1116
1	10.2	1810
2	8.2	1449
3	5.4	939
4	9.0	1602
5	12.4	2179
6	12.6	2216
7	6.2	1096
8	6.2	1091
9	4.8	840
10	4.2	753
11	3.0	516
12	2.6	469
13	1.8	318
14	1.6	291
15	1.6	271
16	1.0	177
17	0.8	129
18	0.6	89
19	0.6	91
20	0.4	66

Variable #: 33
 SAS name: ticslong_score
 SAS label: TICS Word List Long Delay total score
 Categories: cognitive
 Usage Notes: none

ticslong_score	PERCENT	Number
.	0.6	118
0	13.0	2291
1	12.4	2177
2	20.0	3513
3	21.8	3837
4	15.8	2770
5	8.8	1568
6	4.2	730
7	2.2	371
8	1.0	161
9	0.4	75
10	0.2	24

Variable #: 34
 SAS name: ebmtrecall_score
 SAS label: East Boston Memory Recall total score
 Categories: cognitive
 Usage Notes: none

ebmtrecall_score	PERCENT	Number
.	0.8	127
0	4.2	735
1	0.2	46
2	0.4	67
3	0.4	84
4	1.0	172
5	1.6	293
6	4.4	760
7	10.4	1845
8	16.0	2813
9	15.2	2678
10	18.4	3260

ebmtrecall_score	PERCENT	Number
11	14.0	2462
12	13.0	2293

Variable #: 35

SAS name: cvlt_correct

SAS label: CVLT total correct

Categories: cognitive

Usage Notes: none

cvlt_correct	PERCENT	Number
.	33.8	5957
0	0.2	32
1	0.0	8
2	0.0	15
3	0.2	30
4	0.2	21
5	0.2	29
6	0.2	43
7	0.4	72
8	0.6	91
9	0.6	109
10	0.8	129
11	1.0	164
12	1.2	209
13	1.4	243
14	1.4	251
15	1.6	297
16	2.2	377
17	2.2	378
18	2.4	430
19	2.4	430
20	2.8	487
21	3.2	564
22	3.2	557
23	3.4	585
24	3.2	571
25	3.4	615
26	3.2	565

cvlt_correct	PERCENT	Number
27	3.0	544
28	3.2	552
29	3.0	541
30	2.4	440
31	2.4	429
32	2.0	350
33	1.8	311
34	1.4	248
35	1.2	227
36	1.0	169
37	0.8	147
38	0.6	109
39	0.6	100
40	0.4	62
41	0.2	43
42	0.2	33
43	0.2	22
44	0.0	12
45	0.0	14
46	0.0	5
47	0.0	10
48	0.0	4
84	0.0	1
88	0.0	1
90	0.0	2

Variable #: 36

SAS name: cvlt_intrusions

SAS label: CVLT total intrusions

Categories: cognitive

Usage Notes: none

cvlt_intrusions	PERCENT	Number
.	33.8	5957
0	30.6	5389
1	14.4	2555
2	9.0	1600
3	5.4	938

cvlt_intrusions	PERCENT	Number
4	2.8	495
5	1.6	280
6	1.0	175
7	0.6	101
8	0.4	59
9	0.2	31
10	0.0	15
11	0.2	18
12	0.0	9
14	0.0	4
15	0.0	3
16	0.0	1
17	0.0	1
21	0.0	2
23	0.0	1
32	0.0	1

Variable #: 37

SAS name: cvlt_repetitions

SAS label: CVLT total repetitions

Categories: cognitive

Usage Notes: none

cvlt_repetitions	PERCENT	Number
.	33.8	5957
0	27.6	4863
1	14.6	2572
2	8.6	1514
3	5.2	912
4	3.2	573
5	2.0	342
6	1.4	255
7	1.0	177
8	0.8	127
9	0.4	67
10	0.4	59
11	0.2	48
12	0.2	42

cvlt_repetitions	PERCENT	Number
13	0.2	31
14	0.2	20
15	0.0	12
16	0.0	12
17	0.0	10
18	0.0	7
19	0.0	9
20	0.0	5
21	0.0	7
22	0.0	2
23	0.0	3
25	0.0	3
27	0.0	2
28	0.0	1
30	0.0	1
36	0.0	1
42	0.0	1

Variable #: 38
 SAS name: ticsdays
 SAS label: Days to Cognitive Battery
 Categories: cognitive
 Usage Notes: none

N	Mean	StdDeviation	Minimum	Maximum
17635	5718.96	1101.02	3730	8891

Variable #: 39
 SAS name: dxdays
 SAS label: 'Days to final diagnosis'
 Categories: cognitive
 Usage Notes: none

N	Mean	StdDeviation	Minimum	Maximum
17635	5711.70	1102.37	3730	8891