

WHIMS Coordinating Center Document

Created: January 26, 2022

Dataset Name: ECHO_Public_JAN2022_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	84.4	15678
	2 Minor Cognitive Impairment	4.6	854
	3 Probable Dementia	4.2	774
	4 Unable to Classify - Cognitive Impairment	3.6	653
	5 Unable to Classify - Functional Impairment	0.0	3
	6 Unable to Classify - No Cognitive Impairment + No DQ	3.2	593

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

	finalclass	PERCENT	Number
	.	98.8	18340
	1 Probable Vascular	0.0	6
	2 Probable Alzheimer's	0.2	35
	3 Dementia: Mixed Type	0.0	6
	4 Dementia: Etiology Unknown	0.8	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
18555	34	5	0	50

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

score_01	PERCENT	Number
2	0.2	25
3	0.2	37
4	0.4	56
5	0.6	127
6	1.4	261
7	4.2	782
8	18.6	3457
9	74.4	13810

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

score_02	PERCENT	Number
.	0.0	2
0	1.4	251
1	5.0	938
2	93.6	17364

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

score_03	PERCENT	Number
.	0.0	3
0	0.8	135
1	2.2	426
2	7.8	1431
3	17.2	3187
4	24.0	4461
5	22.2	4117

score_03	PERCENT	Number
6	14.2	2634
7	7.0	1315
8	3.0	562
9	1.0	200
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	4
0	2.8	509
1	6.6	1224
2	7.8	1441
3	13.6	2515
4	24.4	4533
5	44.8	8329

Variable #: 9
SAS name: score_05
SAS label: TICS item 5
Categories: cognitive
Usage Notes: none

score_05	PERCENT	Number
.	0.0	6
0	0.6	118
1	99.4	18431

Variable #: 10
SAS name: score_06
SAS label: TICS item 6
Categories: cognitive
Usage Notes: none

score_06	PERCENT	Number
.	0.0	6
0	0.4	56
1	99.6	18493

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

score_07	PERCENT	Number
.	0.0	6
0	6.6	1227
1	93.4	17322

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

score_08	PERCENT	Number
.	0.0	6
0	1.0	204
1	98.8	18345

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

score_09	PERCENT	Number
.	0	6
0	9	1656
1	91	16893

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

score_10	PERCENT	Number
.	0	6
0	13	2395
1	87	16154

Variable #: 15

SAS name: score_11

SAS label: TICS item 11

Categories: cognitive

Usage Notes: none

score_11	PERCENT	Number
.	0.0	6
0	3.4	622
1	22.0	4091
2	74.6	13836

Variable #: 16

SAS name: score_12

SAS label: TICS item 12

Categories: cognitive

Usage Notes: none

score_12	PERCENT	Number
.	0.0	7
0	32.4	6009
1	18.0	3340
2	49.6	9199

Variable #: 17

SAS name: score_13

SAS label: TICS item 13

Categories: cognitive

Usage Notes: none

score_13	PERCENT	Number
.	0.0	6
0	2.0	382
1	7.2	1351
2	90.6	16816

Variable #: 18

SAS name: score_14

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

score_14	PERCENT	Number
.	0.0	6
0	2.6	499
1	97.2	18050

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

score_15	PERCENT	Number
.	0.0	6
0	6.8	1253
1	93.2	17296

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

score_16	PERCENT	Number
.	0.0	6
0	10.6	1961
1	11.6	2160
2	19.8	3658
3	22.4	4157
4	16.8	3112
5	9.8	1835
6	5.0	925
7	2.4	437
8	1.0	194
9	0.4	84
10	0.2	26

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

Categories: cognitive
Usage Notes: none

ebmt_score	PERCENT	Number
.	0.4	60
0	0.2	23
1	0.0	13
2	0.2	31
3	0.4	65
4	0.6	127
5	1.2	237
6	3.0	573
7	9.6	1798
8	16.8	3105
9	14.2	2651
10	19.4	3612
11	16.2	3003
12	17.6	3257

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

N	Mean	StdDeviation	Minimum	Maximum
18483	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	63
0	98.0	18198
1	1.4	277
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	63
0	0.0	8
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	18448

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	63
0	0.0	2
06	0.0	2
07	0.0	3
08	0.0	9
09	0.0	6
10	17.2	3193
11	12.0	2216
12	8.0	1473
121	0.0	1

oraltrail_timea	PERCENT	Number
13	5.2	951
14	3.2	589
15	1.8	338
16	1.4	272
17	1.0	184
18	0.8	136
19	0.4	77
198	0.0	1
20	0.4	56
21	0.2	43
22	0.2	35
23	0.2	24
24	0.0	17
25	0.2	30
26	0.0	6
27	0.0	15
28	0.0	8
29	0.0	4
30	0.0	7
31	0.0	6
32	0.0	4
33	0.0	2
34	0.0	2
35	0.0	5
36	0.0	6
37	0.0	3
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	2
46	0.0	1
48	0.0	1
5	0.2	29

oraltrail_timea	PERCENT	Number
50	0.0	1
514	0.0	1
57	0.0	1
58	0.0	1
6	2.0	355
7	8.2	1521
72	0.0	1
8	17.2	3192
88	0.0	1
9	19.6	3629
DC	0.0	8

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	63
0	50.6	9390
1	20.0	3722
2	11.4	2116
3	6.8	1264
4	3.6	672
5	7.2	1328

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	63
0	1.6	301
1	0.0	5
2	0.0	6
3	0.0	2

oraltrail_correctb	PERCENT	Number
4	0.0	3
5	0.0	4
6	0.0	14
7	0.2	25
8	0.0	17
9	0.2	55
10	0.2	38
11	0.4	82
12	0.4	61
13	0.6	95
14	0.4	65
15	0.8	130
16	0.8	145
17	0.8	151
18	0.4	89
19	0.8	156
20	0.4	91
21	0.8	131
22	0.4	74
23	0.8	148
24	0.8	151
25	88.6	16453

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	86
1	0.0	1
10	0.0	2
100	0.2	31
101	0.2	28
102	0.2	28
103	0.2	32
104	0.2	27
105	0.2	31
106	0.0	13
107	0.2	22
108	0.2	24
109	0.0	12
11	0.0	6
110	0.2	19
111	0.2	22
112	0.2	21
113	0.2	20
114	0.0	12
115	0.2	20
116	0.0	10
117	0.2	22
118	0.0	18
119	0.0	15
12	0.0	6
120	0.2	20
121	0.2	19
122	0.0	10
123	0.0	12
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	23

oraltrail_timeb	PERCENT	Number
130	0.0	11
131	0.0	12
132	0.0	9
133	0.0	7
134	0.0	8
135	0.0	2
136	0.0	6
137	0.0	13
138	0.0	5
139	0.0	5
14	0.2	32
140	0.0	10
141	0.0	7
142	0.0	10
143	0.0	6
144	0.0	7
145	0.0	5
146	0.0	8
147	0.0	4
148	0.0	5
149	0.0	5
15	0.2	40
150	0.0	5
151	0.0	6
152	0.0	6
153	0.0	3
154	0.0	2
155	0.0	2
156	0.0	3
157	0.0	3
159	0.0	2
16	0.4	73
160	0.0	1
161	0.0	2
162	0.0	2
163	0.0	1

oraltrail_timeb	PERCENT	Number
164	0.0	1
166	0.0	3
167	0.0	4
168	0.0	3
169	0.0	1
17	0.6	107
170	0.0	1
171	0.0	1
172	0.0	2
173	0.0	2
175	0.0	4
176	0.0	1
177	0.0	3
179	0.0	1
18	0.8	164
181	0.0	2
184	0.0	1
185	0.0	1
189	0.0	2
19	1.2	218
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	296
200	0.0	2
202	0.0	1
203	0.0	1
21	2.0	373
215	0.0	1
216	0.0	1
22	2.2	424
220	0.0	1
222	0.0	1

oraltrail_timeb	PERCENT	Number
225	0.0	1
23	2.4	457
232	0.0	1
24	2.8	506
242	0.0	1
25	3.0	570
26	3.0	572
27	3.0	549
28	2.8	522
29	2.6	471
30	2.8	510
300	3.6	655
31	2.4	456
32	2.6	473
33	2.0	386
34	2.0	356
35	1.8	343
36	1.8	325
37	1.6	296
38	1.6	304
39	1.6	310
40	1.4	261
41	1.2	229
42	1.2	229
43	1.2	209
44	1.2	224
45	1.2	234
46	1.0	196
47	1.0	193
48	1.2	215
49	1.0	169
50	1.0	188
51	1.0	168
52	0.8	154
53	0.8	149
54	0.8	146

oraltrail_timeb	PERCENT	Number
55	0.8	149
56	0.8	148
57	0.8	133
58	0.8	143
59	0.8	154
60	0.8	158
61	0.6	107
62	0.6	104
63	0.6	110
64	0.6	99
65	0.6	120
66	0.6	107
67	0.6	101
68	0.6	103
69	0.6	96
7	0.0	1
70	0.4	83
71	0.4	88
72	0.4	90
73	0.4	77
74	0.4	79
75	0.4	83
76	0.4	80
77	0.6	94
78	0.4	60
79	0.4	58
8	0.0	1
80	0.4	79
81	0.4	59
82	0.4	64
83	0.4	67
84	0.4	60
85	0.2	55
86	0.2	52
87	0.4	62
88	0.2	53

oraltrail_timeb	PERCENT	Number
89	0.2	40
9	0.0	2
90	0.2	44
91	0.4	61
92	0.2	35
93	0.2	38
94	0.2	41
95	0.2	35
96	0.2	37
97	0.2	38
98	0.2	40
DC	7.0	1306
refusal	0.0	7

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	95
0	0.2	37
1	0.0	5
2	0.2	49
3	1.0	186
4	5.6	1037
5	12.0	2222
6	21.6	4007
7	15.4	2846
8	14.4	2666
9	10.4	1943
10	8.0	1467
11	5.4	990
12	3.0	562
13	1.6	285
14	0.8	158

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	95
0	1.4	272
1	0.8	147
2	2.6	480
3	3.8	689
4	13.0	2398
5	16.4	3027
6	24.0	4448
7	13.8	2569
8	9.2	1695
9	5.8	1089
10	3.6	671
11	2.0	365
12	1.6	281
13	1.0	181
14	0.8	148

Variable #: 31

SAS name: gds_score

SAS label: Geriatric Depression total score

Categories: cognitive

Usage Notes: none

gds_score	PERCENT	Number
.	0.6	129
0	31.8	5916
1	24.2	4481
2	16.8	3128
3	9.4	1756
4	6.0	1097
5	3.6	670
6	2.4	447
7	1.8	317

gds_score	PERCENT	Number
8	1.2	215
9	0.8	142
10	0.6	104
11	0.4	70
12	0.2	39
13	0.2	30
14	0.0	10
15	0.0	4

Variable #: 32
 SAS name: insomnia
 SAS label: WHI Insomnia Rating Scale total score
 Categories: cognitive
 Usage Notes: none

insomnia	PERCENT	Number
.	0.8	139
0	6.2	1168
1	10.2	1897
2	8.2	1520
3	5.4	988
4	9.0	1661
5	12.4	2297
6	12.6	2339
7	6.2	1148
8	6.2	1151
9	4.8	892
10	4.4	803
11	3.0	544
12	2.6	496
13	1.8	333
14	1.6	306
15	1.6	287
16	1.0	183
17	0.8	134
18	0.6	98
19	0.6	101
20	0.4	70

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	127
0	13.2	2456
1	12.6	2349
2	20.0	3723
3	21.6	4026
4	15.4	2866
5	8.6	1609
6	4.0	755
7	2.0	377
8	0.8	165
9	0.4	77
10	0.2	25

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	137
0	4.0	756
1	0.2	49
2	0.4	69
3	0.4	88
4	1.0	182
5	1.6	304
6	4.2	796
7	10.4	1936
8	16.0	2959
9	15.2	2802
10	18.4	3407

ebmtrecall_score	PERCENT	Number
11	14.0	2612
12	13.2	2458

Variable #: 35

SAS name: cvlt_correct

SAS label: CVLT total correct

Categories: cognitive

Usage Notes: none

cvlt_correct	PERCENT	Number
.	32.2	5975
0	0.2	37
1	0.0	9
2	0.0	16
3	0.2	32
4	0.2	22
5	0.2	33
6	0.2	51
7	0.4	83
8	0.6	102
9	0.6	123
10	0.8	147
11	1.0	179
12	1.2	230
13	1.4	270
14	1.6	283
15	1.8	335
16	2.2	412
17	2.2	416
18	2.4	461
19	2.6	470
20	2.8	519
21	3.2	612
22	3.2	602
23	3.4	626
24	3.4	615
25	3.6	663
26	3.2	597

cvlt_correct	PERCENT	Number
27	3.2	578
28	3.2	585
29	3.0	574
30	2.4	463
31	2.4	454
32	2.0	369
33	1.8	324
34	1.4	267
35	1.4	245
36	1.0	178
37	0.8	159
38	0.6	114
39	0.6	103
40	0.4	66
41	0.2	45
42	0.2	37
43	0.2	23
44	0.0	15
45	0.0	15
46	0.0	5
47	0.0	10
48	0.0	6

Variable #: 36
SAS name: cvlt_intrusions
SAS label: CVLT total intrusions
Categories: cognitive
Usage Notes: none

cvlt_intrusions	PERCENT	Number
.	32.2	5971
0	31.0	5755
1	14.8	2755
2	9.4	1729
3	5.4	1015
4	3.0	539
5	1.8	318
6	1.0	193

cvlt_intrusions	PERCENT	Number
7	0.6	115
8	0.4	66
9	0.2	38
10	0.0	15
11	0.2	19
12	0.0	11
13	0.0	3
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
.	32.2	5971
0	28.2	5235
1	15.0	2769
2	8.8	1628
3	5.2	980
4	3.4	627
5	2.0	376
6	1.4	270
7	1.0	186
8	0.8	132
9	0.4	76
10	0.4	64
11	0.2	51
12	0.2	45
13	0.2	34
14	0.2	24

cvlt_repetitions	PERCENT	Number
15	0.0	14
16	0.0	13
17	0.0	12
18	0.0	9
19	0.0	10
20	0.0	5
21	0.0	7
22	0.0	4
23	0.0	3
25	0.0	3
27	0.0	2
28	0.0	2
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
18555	5853.69	1226.65	3730	9660

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

N	Mean	StdDeviation	Minimum	Maximum
18555	5846.49	1228.23	3730	9660