

Means and standard deviations for the FTLD Module v3.0 neuropsychological battery in cognitively normal participants

AS OF JUNE 2018

Table 1. FTLD neuropsychological battery summary statistics for clinically cognitive normal UDS participants with FTLD Module

AS OF JUNE 2018

TEST	n	Mean (SD)	Q25	Median	Q75	Range
Benson Complex Figure — Immediate	197	15.7 (1.7)	15	16	17	1–17
Benson Complex Figure — Delayed	197	12.3 (3.0)	10	12	14	0–17
Verbal Fluency: Phonemic Test — Total correct F/L words	200	28.9 (9.0)	23	29	36	6–57
Word Reading Test — Total regular words	321	15 (0.1)	15	15	15	14–15
Word Reading Test — Total irregular words	321	14.5 (0.9)	14	15	15	8–15
Semantic Word–picture Matching Test — Total correct	326	20 (0.2)	20	20	20	19–20
Semantic Associates Test — Total correct	327	16 (0.2)	16	16	16	15–16
Northwestern Anagram Test — Total score	314	9.3 (1.3)	9	10	10	4–10
Sentence Repetition Test — Total accurate sentences	319	4.4 (0.7)	4	5	5	0–5
Noun & Verb Naming Subtest — Total nouns	323	15.9 (0.7)	16	16	16	5–16
Noun & Verb Naming Subtest — Total verbs	323	15.8 (1.0)	16	16	16	0–16
Noun & Verb Naming Subtest — Noun/verb ratio	322	1 (0.0)	1	1	1	0.9–1.1
Sentence Reading Test — Total accurate sentences	318	4.8 (0.5)	5	5	5	2–5

CRITERIA — Subjects have: 1) completed at least one FTLD Module; 2) a clinical diagnosis of normal cognition; 3) global CDR=0. NOTE: Includes only the first available visit meeting criteria in items 1–3.

Table 2. FTLD neuropsychological battery scores by age, among clinically cognitive normal UDS participants

AS OF JUNE 2018

TEST	Age: < 65 yrs						Age: ≥ 65 yrs					
	n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
				-1SD	-1.5SD	-2SD				-1SD	-1.5SD	-2SD
Benson Complex Figure — Immediate	110	15.7	2.1	13.6	12.6	11.6	87	15.6	1.2	14.4	13.8	13.2
Benson Complex Figure — Delayed	110	13.1	2.7	10.4	9.0	7.6	87	11.3	3.1	8.2	6.6	5.1
Verbal Fluency: Phonemic Test — Total correct F/L words	115	29.0	8.9	20.2	15.8	11.3	85	28.6	9.3	19.3	14.7	10.1
Word Reading Test — Total regular words	217	15.0	0.1	14.9	14.9	14.9	104	15.0	0.2	14.7	14.6	14.5
Word Reading Test — Total irregular words	217	14.5	0.9	13.5	13.1	12.6	104	14.6	0.8	13.8	13.4	13.0
Semantic Word–picture Matching Test — Total correct	219	20.0	0.1	19.9	19.8	19.8	107	19.9	0.3	19.6	19.5	19.4
Semantic Associates Test — Total correct	219	16.0	0.2	15.8	15.7	15.6	108	15.9	0.2	15.7	15.6	15.5
Northwestern Anagram Test — Total score	209	9.4	1.2	8.1	7.5	6.9	105	9.1	1.4	7.7	7.1	6.4
Sentence Repetition Test — Total accurate sentences	215	4.5	0.7	3.8	3.4	3.0	104	4.4	0.8	3.6	3.2	2.8
Noun & Verb Naming Subtest — Total nouns	217	15.9	0.8	15.2	14.8	14.4	106	15.8	0.5	15.4	15.1	14.9
Noun & Verb Naming Subtest — Total verbs	217	15.8	1.1	14.7	14.2	13.6	106	15.8	0.5	15.4	15.1	14.9
Noun & Verb Naming Subtest — Noun/verb ratio	216	1.0	0.0	1.0	1.0	1.0	106	1.0	0.0	1.0	0.9	0.9
Sentence Reading Test — Total accurate sentences	214	4.8	0.5	4.4	4.1	3.9	104	4.8	0.5	4.3	4.1	3.8

CRITERIA — Subjects have: 1) completed at least one FTLD Module; 2) a clinical diagnosis of normal cognition; 3) global CDR=0. NOTE: Includes only the first available visit meeting criteria in items 1–3.

Table 3. FTLD neuropsychological battery scores by sex and age, among clinically cognitive normal UDS participants

AS OF JUNE 2018

TEST	MALE											
	Age: < 65 yrs						Age: ≥ 65 yrs					
	n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
-1SD				-1.5SD	-2SD	-1SD				-1.5SD	-2SD	
Benson Complex Figure — Immediate	47	15.5	2.6	12.9	11.6	10.3	42	15.6	1.4	14.3	13.6	12.9
Benson Complex Figure — Delayed	47	13.3	2.8	10.5	9.2	7.8	42	11.3	3.1	8.2	6.7	5.1
Verbal Fluency: Phonemic Test — Total correct F/L words	54	29.8	9.0	20.8	16.3	11.8	42	28.2	9.8	18.4	13.5	8.6
Word Reading Test — Total regular words	97	15.0	0.0	15.0	15.0	15.0	51	14.9	0.3	14.7	14.5	14.4
Word Reading Test — Total irregular words	97	14.5	0.8	13.7	13.3	12.9	51	14.5	0.9	13.7	13.2	12.8
Semantic Word–picture Matching Test — Total correct	97	20.0	0.0	20.0	20.0	20.0	52	19.9	0.3	19.6	19.4	19.2
Semantic Associates Test — Total correct	97	16.0	0.1	15.8	15.8	15.7	53	15.9	0.2	15.7	15.6	15.5
Northwestern Anagram Test — Total score	92	9.2	1.4	7.8	7.1	6.3	50	9.2	1.2	7.9	7.3	6.7
Sentence Repetition Test — Total accurate sentences	97	4.5	0.7	3.8	3.5	3.1	51	4.4	0.9	3.5	3.1	2.6
Noun & Verb Naming Subtest — Total nouns	97	15.8	1.1	14.7	14.1	13.6	52	15.8	0.6	15.2	15.0	14.7
Noun & Verb Naming Subtest — Total verbs	97	15.8	1.7	14.1	13.3	12.5	52	15.8	0.5	15.3	15.0	14.8
Noun & Verb Naming Subtest — Noun/verb ratio	96	1.0	0.0	1.0	1.0	1.0	52	1.0	0.0	1.0	0.9	0.9
Sentence Reading Test — Total accurate sentences	96	4.8	0.5	4.3	4.0	3.8	51	4.9	0.4	4.5	4.3	4.1
TEST	FEMALE											
	Age: < 65 yrs						Age: ≥ 65 yrs					
	n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
-1SD				-1.5SD	-2SD	-1SD				-1.5SD	-2SD	
Benson Complex Figure — Immediate	63	15.9	1.6	14.3	13.5	12.7	45	15.6	1.1	14.6	14.0	13.5
Benson Complex Figure — Delayed	63	13.0	2.7	10.2	8.9	7.5	45	11.2	3.1	8.1	6.5	5.0
Verbal Fluency: Phonemic Test — Total correct F/L words	61	28.3	8.7	19.6	15.3	10.9	43	29.0	8.9	20.1	15.7	11.3
Word Reading Test — Total regular words	120	15.0	0.1	14.9	14.9	14.8	53	15.0	0.1	14.8	14.8	14.7
Word Reading Test — Total irregular words	120	14.5	1.0	13.4	12.9	12.4	53	14.7	0.8	13.9	13.5	13.1
Semantic Word–picture Matching Test — Total correct	122	20.0	0.1	19.9	19.8	19.7	55	19.9	0.2	19.7	19.6	19.5
Semantic Associates Test — Total correct	122	16.0	0.2	15.7	15.6	15.5	55	15.9	0.2	15.7	15.6	15.5
Northwestern Anagram Test — Total score	117	9.5	1.1	8.4	7.9	7.3	55	9.1	1.5	7.6	6.8	6.1
Sentence Repetition Test — Total accurate sentences	118	4.4	0.7	3.7	3.3	3.0	53	4.4	0.7	3.7	3.3	3.0
Noun & Verb Naming Subtest — Total nouns	120	16.0	0.2	15.8	15.7	15.7	54	15.9	0.4	15.5	15.3	15.1
Noun & Verb Naming Subtest — Total verbs	120	15.9	0.3	15.6	15.4	15.3	54	15.8	0.4	15.4	15.2	15.0
Noun & Verb Naming Subtest — Noun/verb ratio	120	1.0	0.0	1.0	1.0	1.0	54	1.0	0.0	1.0	1.0	0.9
Sentence Reading Test — Total accurate sentences	118	4.8	0.4	4.4	4.2	4.0	53	4.7	0.6	4.2	3.9	3.6

CRITERIA — Subjects have: 1) completed at least one FTLD Module; 2) a clinical diagnosis of normal cognition; 3) global CDR=0. NOTE: Includes only the first available visit meeting criteria in items 1–3.

Table 4. FTLD neuropsychological battery scores by education and age, among clinically cognitive normal UDS participants

AS OF JUNE 2018

TEST	EDUCATION: ≤ 12 yrs											
	Age: < 65 yrs						Age: ≥ 65 yrs					
	n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
-1SD				-1.5SD	-2SD	-1SD				-1.5SD	-2SD	
Benson Complex Figure — Immediate	20	15.0	3.7	11.3	9.4	7.6	16	15.4	1.2	14.2	13.6	13.0
Benson Complex Figure — Delayed	20	12.7	3.2	9.5	8.0	6.4	16	11.0	2.7	8.3	7.0	5.7
Verbal Fluency: Phonemic Test — Total correct F/L words	21	25.0	8.4	16.6	12.4	8.2	15	27.1	10.6	16.5	11.2	5.9
Word Reading Test — Total regular words	37	15.0	0.0	15.0	15.0	15.0	16	14.9	0.3	14.7	14.6	14.4
Word Reading Test — Total irregular words	37	14.2	0.9	13.3	12.8	12.4	16	14.1	1.3	12.9	12.2	11.6
Semantic Word–picture Matching Test — Total correct	37	20.0	0.0	20.0	20.0	20.0	17	19.9	0.3	19.6	19.4	19.2
Semantic Associates Test — Total correct	37	16.0	0.2	15.8	15.7	15.6	17	16.0	0.0	16.0	16.0	16.0
Northwestern Anagram Test — Total score	36	9.1	1.4	7.7	7.0	6.3	16	9.0	1.4	7.6	7.0	6.3
Sentence Repetition Test — Total accurate sentences	37	4.4	0.9	3.5	3.1	2.6	15	4.3	0.9	3.4	2.9	2.5
Noun & Verb Naming Subtest — Total nouns	37	15.7	1.8	13.9	13	12.1	17	15.9	0.3	15.6	15.4	15.2
Noun & Verb Naming Subtest — Total verbs	37	15.4	2.6	12.8	11.5	10.2	17	15.7	0.6	15.1	14.8	14.5
Noun & Verb Naming Subtest — Noun/verb ratio	36	1.0	0.0	1.0	1.0	1.0	17	1.0	0.0	1.0	1.0	0.9
Sentence Reading Test — Total accurate sentences	37	4.7	0.6	4.1	3.8	3.5	15	4.5	0.7	3.8	3.4	3.0
TEST	EDUCATION: >12 yrs											
	Age: < 65 yrs						Age: ≥ 65 yrs					
	n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
-1SD				-1.5SD	-2SD	-1SD				-1.5SD	-2SD	
Benson Complex Figure — Immediate	89	15.9	1.5	14.4	13.7	12.9	70	15.7	1.2	14.4	13.8	13.2
Benson Complex Figure — Delayed	89	13.2	2.6	10.6	9.3	8.0	70	11.3	3.2	8.1	6.5	4.9
Verbal Fluency: Phonemic Test — Total correct F/L words	93	30.1	8.7	21.4	17.1	12.8	69	28.9	9.1	19.8	15.3	10.7
Word Reading Test — Total regular words	165	15.0	0.1	14.9	14.9	14.8	86	15.0	0.2	14.7	14.6	14.5
Word Reading Test — Total irregular words	165	14.5	0.9	13.6	13.1	12.7	86	14.7	0.7	14.0	13.7	13.3
Semantic Word–picture Matching Test — Total correct	167	20.0	0.1	19.9	19.8	19.8	88	19.9	0.3	19.6	19.5	19.4
Semantic Associates Test — Total correct	167	16.0	0.2	15.8	15.7	15.6	89	15.9	0.3	15.7	15.6	15.4
Northwestern Anagram Test — Total score	159	9.4	1.2	8.2	7.6	7.0	87	9.1	1.4	7.7	7.0	6.4
Sentence Repetition Test — Total accurate sentences	163	4.5	0.6	3.9	3.5	3.2	87	4.4	0.8	3.6	3.2	2.8
Noun & Verb Naming Subtest — Total nouns	165	16.0	0.2	15.8	15.7	15.6	87	15.8	0.5	15.3	15.1	14.8
Noun & Verb Naming Subtest — Total verbs	165	15.9	0.3	15.7	15.5	15.4	87	15.8	0.4	15.4	15.2	15.0
Noun & Verb Naming Subtest — Noun/verb ratio	165	1.0	0.0	1.0	1.0	1.0	87	1.0	0.0	1.0	0.9	0.9
Sentence Reading Test — Total accurate sentences	162	4.9	0.4	4.4	4.2	4.0	87	4.8	0.4	4.4	4.2	4.0

CRITERIA — Subjects have: 1) completed at least one FTLD Module; 2) a clinical diagnosis of normal cognition; 3) global CDR=0. NOTE: Includes only the first available visit meeting criteria in items 1–3.