

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

AS OF SEPTEMBER 2020

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

AS OF SEPTEMBER 2020

TEST	n	Mean (SD)	Q25	Median	Q75	Range
Benson Complex Figure — Immediate	232	15.8 (1.7)	15	16	17	1-17
Benson Complex Figure — Delayed	232	12.4 (3)	11	13	15	0-17
Verbal Fluency: Phonemic Test — Total correct F/L words	235	29 (8.6)	23	29	35	6-57
Word Reading Test — Total regular words	705	15 (0.1)	15	15	15	14-15
Word Reading Test — Total irregular words	705	14.5 (0.9)	14	15	15	8-15
Semantic Word–picture Matching Test — Total correct	710	20 (0.8)	20	20	20	0-20
Semantic Associates Test — Total correct	710	16 (0.3)	16	16	16	11-16
Northwestern Anagram Test — Total score	692	9.2 (1.4)	9	10	10	1-10
Sentence Repetition Test — Total accurate sentences	701	4.5 (0.7)	4	5	5	0-5
Noun & Verb Naming Subtest — Total nouns	706	15.9 (0.3)	16	16	16	13-16
Noun & Verb Naming Subtest — Total verbs	706	15.9 (0.4)	16	16	16	13-16
Noun & Verb Naming Subtest — Noun/verb ratio	706	1 (0)	1	1	1	0.88-1.23
Sentence Reading Test — Total accurate sentences	701	4.9 (0.4)	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 SEPTEMBER 2020

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	146	15.8	1.9	13.9	13.0	12.0	86	15.6	1.2	14.4	13.8	13.2
Benson Complex Figure — Delayed	146	13.1	2.7	10.4	9.0	7.7	86	11.3	3.1	8.2	6.6	5.0
Verbal Fluency: Phonemic Test — Total correct F/L words	151	29.2	8.2	21.0	16.8	12.7	84	28.6	9.3	19.2	14.6	9.9
Word Reading Test — Total regular words	559	15.0	0.1	14.9	14.8	14.8	146	15.0	0.2	14.8	14.7	14.6
Word Reading Test — Total irregular words	559	14.4	0.9	13.5	13.0	12.6	146	14.6	0.8	13.8	13.3	12.9
Semantic Word–picture Matching Test — Total correct	561	20.0	0.8	19.1	18.7	18.3	149	19.9	0.3	19.7	19.6	19.4
Semantic Associates Test — Total correct	560	16.0	0.3	15.7	15.5	15.4	150	15.9	0.2	15.7	15.6	15.5
Northwestern Anagram Test — Total score	548	9.3	1.4	7.9	7.2	6.5	144	9.1	1.4	7.7	7.0	6.3
Sentence Repetition Test — Total accurate sentences	555	4.5	0.6	3.9	3.5	3.2	146	4.4	0.8	3.6	3.2	2.8
Noun & Verb Naming Subtest — Total nouns	558	16.0	0.2	15.8	15.7	15.6	148	15.8	0.5	15.3	15.1	14.8
Noun & Verb Naming Subtest — Total verbs	558	15.9	0.3	15.6	15.4	15.3	148	15.8	0.5	15.3	15.0	14.8
Noun & Verb Naming Subtest — Noun/verb ratio	558	1.0	0.0	1.0	1.0	1.0	148	1.0	0.0	1.0	0.9	0.9
Sentence Reading Test — Total accurate sentences	555	4.9	0.4	4.5	4.3	4.1	146	4.8	0.5	4.4	4.1	3.9

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 SEPTEMBER 2020

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	62	15.8	2.3	13.4	12.3	11.1	42	15.6	1.4	14.3	13.6	12.9
Benson Complex Figure — Delayed	62	13.1	2.9	10.2	8.7	7.2	42	11.3	3.1	8.2	6.7	5.1
Verbal Fluency: Phonemic Test — Total correct F/L words	69	29.8	8.4	21.4	17.2	13.0	42	28.2	9.8	18.4	13.5	8.6
Word Reading Test — Total regular words	238	15.0	0.1	14.9	14.9	14.9	68	14.9	0.3	14.7	14.5	14.4
Word Reading Test — Total irregular words	238	14.4	0.9	13.5	13.1	12.6	68	14.6	0.8	13.8	13.3	12.9
Semantic Word–picture Matching Test — Total correct	238	19.9	1.3	18.6	18.0	17.3	69	19.9	0.3	19.6	19.5	19.3
Semantic Associates Test — Total correct	238	16.0	0.2	15.8	15.6	15.5	70	15.9	0.2	15.7	15.6	15.5
Northwestern Anagram Test — Total score	232	9.2	1.5	7.7	7.0	6.2	66	9.1	1.3	7.8	7.1	6.5
Sentence Repetition Test — Total accurate sentences	238	4.5	0.6	3.9	3.5	3.2	68	4.4	0.9	3.6	3.1	2.7
Noun & Verb Naming Subtest — Total nouns	238	16.0	0.2	15.8	15.7	15.6	69	15.8	0.5	15.3	15.0	14.8
Noun & Verb Naming Subtest — Total verbs	238	15.9	0.4	15.5	15.4	15.2	69	15.8	0.5	15.3	15.1	14.9
Noun & Verb Naming Subtest — Noun/verb ratio	238	1.0	0.0	1.0	1.0	0.9	69	1.0	0.0	1.0	0.9	0.9
Sentence Reading Test — Total accurate sentences	237	4.9	0.4	4.4	4.2	4.0	68	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	84	15.9	1.5	14.4	13.6	12.9	44	15.6	1.1	14.6	14.0	13.5
Benson Complex Figure — Delayed	84	13.1	2.6	10.6	9.3	8.0	44	11.2	3.2	8.1	6.5	4.9
Verbal Fluency: Phonemic Test — Total correct F/L words	82	28.6	8.1	20.6	16.5	12.5	42	28.9	8.9	20.0	15.5	11.0
Word Reading Test — Total regular words	321	15.0	0.1	14.9	14.8	14.8	78	15.0	0.1	14.9	14.8	14.8
Word Reading Test — Total irregular words	321	14.4	0.9	13.5	13.0	12.5	78	14.6	0.8	13.8	13.3	12.9
Semantic Word–picture Matching Test — Total correct	323	20.0	0.1	19.9	19.8	19.8	80	20.0	0.2	19.7	19.6	19.5
Semantic Associates Test — Total correct	322	16.0	0.3	15.6	15.5	15.3	80	16.0	0.2	15.7	15.6	15.5
Northwestern Anagram Test — Total score	316	9.3	1.3	8.1	7.4	6.8	78	9.1	1.5	7.6	6.9	6.2
Sentence Repetition Test — Total accurate sentences	317	4.5	0.6	3.9	3.6	3.2	78	4.4	0.7	3.6	3.3	2.9
Noun & Verb Naming Subtest — Total nouns	320	16.0	0.2	15.7	15.6	15.5	79	15.9	0.5	15.4	15.2	14.9
Noun & Verb Naming Subtest — Total verbs	320	15.9	0.3	15.6	15.5	15.4	79	15.8	0.6	15.2	14.9	14.7
Noun & Verb Naming Subtest — Noun/verb ratio	320	1.0	0.0	1.0	1.0	1.0	79	1.0	0.0	1.0	1.0	0.9
Sentence Reading Test — Total accurate sentences	318	4.9	0.3	4.6	4.4	4.3	78	4.8	0.5	4.3	4.0	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 4. FTLD neuropsychological battery scores by education and age, among clinically cognitive normal UDS participants

AS OF SEPTEMBER 2020

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	29	15.2	3.2	12.1	10.5	8.9	16	15.4	1.2	14.2	13.6	13.0
Benson Complex Figure — Delayed	29	12.7	2.8	9.9	8.5	7.1	16	11.0	2.7	8.3	7.0	5.7
Verbal Fluency: Phonemic Test — Total correct F/L words	30	26.5	8.1	18.3	14.2	10.2	15	27.1	10.6	16.5	11.2	5.9
Word Reading Test — Total regular words	81	15.0	0.2	14.8	14.7	14.7	23	15.0	0.2	14.7	14.6	14.5
Word Reading Test — Total irregular words	81	14.3	1.0	13.3	12.8	12.3	23	14.3	1.1	13.2	12.6	12.1
Semantic Word–picture Matching Test — Total correct	81	20.0	0.0	20.0	20.0	20.0	24	19.9	0.3	19.6	19.5	19.4
Semantic Associates Test — Total correct	81	16.0	0.2	15.8	15.7	15.7	24	16.0	0.2	15.8	15.7	15.6
Northwestern Anagram Test — Total score	80	8.9	1.7	7.2	6.3	5.4	23	9.2	1.2	8.0	7.4	6.8
Sentence Repetition Test — Total accurate sentences	80	4.5	0.8	3.7	3.3	2.9	22	4.4	0.8	3.6	3.2	2.8
Noun & Verb Naming Subtest — Total nouns	81	15.9	0.3	15.6	15.5	15.4	24	15.9	0.3	15.6	15.5	15.4
Noun & Verb Naming Subtest — Total verbs	81	15.9	0.5	15.4	15.2	14.9	24	15.8	0.5	15.2	15.0	14.7
Noun & Verb Naming Subtest — Noun/verb ratio	81	1.0	0.0	1.0	0.9	0.9	24	1.0	0.0	1.0	1.0	0.9
Sentence Reading Test — Total accurate sentences	81	4.8	0.6	4.2	3.9	3.6	22	4.7	0.6	4.0	3.7	3.4
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	117	16.0	1.4	14.6	13.9	13.2	70	15.7	1.2	14.4	13.8	13.2
Benson Complex Figure — Delayed	117	13.2	2.7	10.5	9.2	7.8	70	11.3	3.2	8.1	6.5	4.9
Verbal Fluency: Phonemic Test — Total correct F/L words	121	29.9	8.1	21.7	17.7	13.6	69	28.9	9.1	19.8	15.3	10.7
Word Reading Test — Total regular words	478	15.0	0.1	14.9	14.9	14.8	123	15.0	0.2	14.8	14.7	14.6
Word Reading Test — Total irregular words	478	14.4	0.9	13.5	13.1	12.6	123	14.7	0.8	13.9	13.5	13.1
Semantic Word–picture Matching Test — Total correct	480	20.0	0.9	19.0	18.6	18.1	125	19.9	0.2	19.7	19.6	19.4
Semantic Associates Test — Total correct	479	16.0	0.3	15.7	15.5	15.4	126	15.9	0.2	15.7	15.6	15.5
Northwestern Anagram Test — Total score	468	9.3	1.3	8.1	7.4	6.8	121	9.1	1.4	7.7	6.9	6.2
Sentence Repetition Test — Total accurate sentences	475	4.5	0.6	3.9	3.6	3.3	124	4.4	0.8	3.6	3.2	2.8
Noun & Verb Naming Subtest — Total nouns	477	16.0	0.2	15.8	15.7	15.6	124	15.8	0.5	15.3	15.0	14.8
Noun & Verb Naming Subtest — Total verbs	477	15.9	0.3	15.6	15.5	15.4	124	15.8	0.5	15.3	15.0	14.8
Noun & Verb Naming Subtest — Noun/verb ratio	477	1.0	0.0	1.0	1.0	1.0	124	1.0	0.0	1.0	0.9	0.9
Sentence Reading Test — Total accurate sentences	474	4.9	0.3	4.6	4.4	4.2	124	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.