

Means and standard deviations for the UDS3 neuropsychological battery in cognitively normal participants AS OF MARCH 2017

Table 1. Sample distribution of clinically cognitive normal UDS participants with UDS3 battery, as of March 2017

Age (yrs)	Education (yrs)	Male	Female	Total
<60	≤12	14	28	42
	13-15	26	56	82
	16	43	81	124
	17+	54	82	136
60-69	≤12	35	71	106
	13-15	51	155	206
	16	114	187	301
	17+	168	330	498
70-79	≤12	51	139	190
	13-15	65	174	239
	16	121	226	347
	17+	302	441	743
80-89	≤12	31	86	117
	13-15	27	110	137
	16	61	119	180
	17+	165	187	352
≥90	≤12	4	27	31
	13-15	6	12	18
	16	11	15	26
	17+	21	28	49
Grand total		1370	2554	3924

CRITERIA — Subjects have: 1) at least one UDS3 battery test score available (MoCA total score; Craft Story Immediate/Delayed; Number Span Forward, Number Span Backward; or MINT total score); 2) clinical diagnosis of normal cognition; 3) global CDR=0. NOTE: includes only the first available visit meeting criteria in items 1–3.

Table 2. Summary statistics for clinically cognitive normal UDS participants with UDS3 battery, as of March 2017

Test	N	Mean (SD)	Q25	Median	Q75	Range
Montreal Cognitive Assessment (MoCA) — total score	3935	26.3 (2.8)	25	27	28	9-30
Craft Story 21 Recall Immediate — verbatim	3930	21.9 (6.6)	17	22	27	0-41
Craft Story 21 Recall Immediate — paraphrase	3930	16.2 (4.0)	14	17	19	0-25
Craft Story 21 Recall Delayed — verbatim	3926	19.1 (6.7)	14	19	24	0-40
Craft Story 21 Recall Delayed — paraphrase	3926	15.1 (4.2)	12	16	18	0-25
Craft Story 21 Recall Delayed — delay time (minutes)	3918	17.5 (3.8)	15	17	20	0-63
Benson Complex Figure Copy	3939	15.6 (1.4)	15	16	17	0-17
Benson Complex Figure Recall	3931	11.3 (3.1)	9	12	13	0-17
Number Span Test Forward — total correct trials	3946	8.3 (2.3)	7	8	10	0-14
Number Span Test Forward — longest span	3946	6.7 (1.3)	6	7	8	0-9
Number Span Test Backward — total correct trials	3945	7.2 (2.2)	6	7	9	0-14
Number Span Test Backward — longest span	3945	5.1 (1.3)	4	5	6	0-8
Multilingual Naming Test (MINT) — total score	3915	29.9 (2.4)	29	31	32	0-32
Verbal Fluency Phonemic Test — correct F-words	3944	15.0 (4.7)	12	15	18	1-35
Verbal Fluency Phonemic Test — correct L-words	3927	14.2 (4.5)	11	14	17	0-35
Verbal Fluency Phonemic Test — total correct F & L	3925	29.1 (8.6)	23	29	35	1-64
Category Fluency — Animals	3951	21.3 (5.7)	17	21	25	0-49
Category Fluency — Vegetables	3945	15.1 (4.3)	12	15	18	1-35
Trail Making Test Part A	3937	31.0 (13.6)	22	28	36	9-150
Trail Making Test Part B	3914	82.4 (46.6)	54	70	95	13-300

CRITERIA — Subjects have: 1) at least one UDS3 battery test score available (MoCA total score; Craft Story Immediate/Delayed; Number Span Forward, Number Span Backward; or MINT total score); 2) clinical diagnosis of normal cognition; 3) global CDR=0. NOTE: includes only the first available visit meeting criteria in items 1–3.

Table 3. Montreal Cognitive Assessment (MoCA) total score by age, education, and sex, among clinically cognitive normal UDS participants with UDS3 battery, as of March 2017

Age (yrs)	Education (yrs)	MALE						FEMALE					
		n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
					-1SD	-1.5SD	-2SD				-1SD	-1.5SD	-2SD
<60	≤12	14	26.7	2.4	24.3	23.1	21.9	28	26.5	2.5	24.0	22.7	21.5
	13-15	26	26.5	2.5	24.0	22.7	21.5	56	26.7	2.8	23.9	22.5	21.1
	16	42	27.5	1.6	25.8	25.0	24.2	80	27.8	1.8	26.0	25.1	24.2
	17+	54	28.0	1.7	26.3	25.4	24.6	82	28.1	1.7	26.4	25.5	24.6
60-69	≤12	35	25.4	2.9	22.5	21.1	19.7	71	25.0	3.0	22.0	20.5	19.0
	13-15	51	25.8	2.3	23.5	22.3	21.1	153	25.9	2.7	23.2	21.9	20.5
	16	114	26.5	2.0	24.4	23.4	22.4	186	27.3	2.1	25.2	24.2	23.1
	17+	168	27.3	1.9	25.4	24.5	23.6	329	27.6	2.0	25.6	24.6	23.6
70-79	≤12	51	24.1	3.1	21.0	19.5	17.9	138	24.3	3.7	20.6	18.8	16.9
	13-15	65	25.0	2.4	22.5	21.3	20.1	174	25.9	2.7	23.1	21.8	20.4
	16	120	26.1	2.5	23.6	22.4	21.1	226	26.6	2.4	24.2	23.0	21.8
	17+	300	26.6	2.2	24.4	23.3	22.2	441	27.0	2.2	24.8	23.7	22.7
80-89	≤12	31	22.2	4.2	18.0	15.9	13.8	80	22.0	4.6	17.4	15.1	12.8
	13-15	27	25.2	3.0	22.2	20.6	19.1	110	25.0	3.3	21.8	20.1	18.5
	16	61	25.2	2.4	22.8	21.6	20.4	118	25.9	2.3	23.6	22.4	21.3
	17+	165	26.1	2.2	23.9	22.9	21.8	186	26.0	2.4	23.6	22.3	21.1
≥90	≤12	4	21.5	2.6	18.9	17.5	16.2	27	20.4	4.6	15.9	13.6	11.3
	13-15	6	23.8	2.5	21.4	20.1	18.9	11	24.5	3.7	20.7	18.9	17.0
	16	10	24.1	3.3	20.8	19.2	17.5	15	24.5	2.9	21.6	20.2	18.8
	17+	21	25.1	2.0	23.0	22.0	21.0	27	25.1	3.3	21.8	20.2	18.6

CRITERIA — Subjects have: 1) at least one UDS3 battery test score available (MoCA total score; Craft Story Immediate/Delayed; Number Span Forward, Number Span Backward; or MINT total score); 2) clinical diagnosis of normal cognition; 3) global CDR=0. NOTE: includes only the first available visit meeting criteria in items 1–3.

Table 4. Craft Story 21 Recall Immediate verbatim score by age, education, and sex, among clinically cognitive normal UDS participants with UDS3 battery, as of March 2017

Age (yrs)	Education (yrs)	Male						Female					
		n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
					-1SD	-1.5SD	-2SD				-1SD	-1.5SD	-2SD
<60	≤12	14	22.5	6.7	15.8	12.4	9.0	28	20.6	6.1	14.4	11.4	8.3
	13-15	26	21.4	7.0	14.3	10.8	7.3	56	20.7	6.3	14.4	11.3	8.1
	16	43	24.2	6.9	17.3	13.8	10.3	81	23.2	6.4	16.8	13.7	10.5
	17+	53	25.4	6.2	19.2	16.1	13.1	82	24.1	6.6	17.5	14.2	10.9
60-69	≤12	34	22.2	6.9	15.3	11.8	8.3	70	21.1	7.4	13.7	10.0	6.3
	13-15	51	21.6	6.2	15.4	12.3	9.2	152	22.1	6.2	15.9	12.8	9.7
	16	114	20.3	5.7	14.6	11.7	8.9	187	23.7	6.1	17.6	14.6	11.5
	17+	167	23.8	6.2	17.6	14.5	11.4	327	24.4	6.4	18.1	14.9	11.7
70-79	≤12	51	18.7	7.1	11.6	8.1	4.5	138	20.3	6.9	13.4	10.0	6.5
	13-15	64	20.1	6.2	13.9	10.7	7.6	173	21.9	6.6	15.3	12.0	8.7
	16	120	21.9	6.4	15.6	12.4	9.2	225	22.6	6.3	16.3	13.1	10.0
	17+	302	21.6	6.1	15.5	12.4	9.4	441	23.3	6.3	17.0	13.9	10.7
80-89	≤12	30	18.7	6.2	12.5	9.3	6.2	84	16.6	7.1	9.5	5.9	2.3
	13-15	27	19.0	6.8	12.2	8.8	5.4	110	20.2	6.5	13.7	10.4	7.1
	16	59	19.0	6.0	13.0	10.1	7.1	119	20.1	7.0	13.1	9.7	6.2
	17+	164	20.8	6.1	14.7	11.6	8.6	185	21.6	5.9	15.7	12.7	9.7
≥90	≤12	4	16.8	5.3	11.4	8.8	6.1	27	16.4	6.4	9.9	6.7	3.5
	13-15	6	17.8	6.2	11.7	8.6	5.5	12	17.8	5.5	12.3	9.6	6.8
	16	10	20.6	6.0	14.6	11.6	8.6	15	17.3	7.9	9.4	5.4	1.5
	17+	21	18.0	6.4	11.7	8.5	5.3	26	17.4	6.3	11.1	7.9	4.7

CRITERIA — Subjects have: 1.) at least one UDS3 battery test score available (MoCA total score; Craft Story Immediate/Delayed; Number Span Forward, Number Span Backward; or MINT total score); 2) clinical diagnosis of normal cognition; 3) global CDR=0.
NOTE: includes only the first available visit meeting criteria in items 1-3.

Table 5. Craft Story 21 Recall Immediate paraphrase score by age, education, and sex, among clinically cognitive normal UDS participants with UDS3 battery, as of March 2017

Age (yrs)	Education (yrs)	Male						Female					
		n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
					-1SD	-1.5SD	-2SD				-1SD	-1.5SD	-2SD
<60	≤12	14	15.4	5.5	9.9	7.1	4.3	28	15.1	3.6	11.6	9.8	8.0
	13-15	26	15.9	4.2	11.7	9.6	7.5	56	15.5	3.9	11.6	9.7	7.8
	16	43	18.0	4.0	14.0	12.0	10.0	81	17.1	4.2	12.9	10.8	8.7
	17+	53	18.0	3.2	14.8	13.2	11.7	82	17.5	3.8	13.7	11.8	9.9
60-69	≤12	34	16.6	4.1	12.4	10.4	8.3	70	15.5	4.4	11.1	8.9	6.7
	13-15	51	16.1	3.4	12.7	11.0	9.3	152	16.3	3.7	12.6	10.8	9.0
	16	114	15.6	3.7	11.9	10.0	8.2	187	17.3	3.5	13.8	12.0	10.3
	17+	167	17.4	3.3	14.1	12.5	10.9	327	17.9	3.4	14.4	12.7	11.0
70-79	≤12	51	13.7	4.6	9.0	6.7	4.4	138	15.2	4.2	10.9	8.8	6.7
	13-15	64	15.2	3.7	11.5	9.7	7.9	173	16.2	3.7	12.5	10.6	8.8
	16	120	16.3	3.6	12.6	10.8	9.0	225	16.8	3.7	13.1	11.3	9.4
	17+	302	16.2	3.6	12.6	10.8	9.0	441	17.0	3.6	13.4	11.6	9.8
80-89	≤12	30	13.7	4.0	9.7	7.7	5.7	84	12.9	4.9	8.1	5.6	3.2
	13-15	27	13.8	4.1	9.7	7.7	5.6	110	14.8	4.1	10.7	8.6	6.5
	16	59	14.7	3.5	11.2	9.5	7.8	119	15.3	4.2	11.1	9.0	6.8
	17+	164	15.7	3.7	12.0	10.1	8.2	185	16.0	3.9	12.2	10.2	8.3
≥90	≤12	4	13.0	1.2	11.8	11.3	10.7	27	12.3	4.5	7.8	5.5	3.3
	13-15	6	14.7	5.2	9.5	6.9	4.3	12	13.6	3.2	10.4	8.8	7.2
	16	10	14.7	3.0	11.7	10.2	8.7	15	13.3	5.0	8.4	5.9	3.4
	17+	21	14.4	3.3	11.1	9.4	7.8	26	13.0	4.1	8.9	6.8	4.7

CRITERIA — Subjects must have: 1.) at least one UDS3 battery test score available (MoCA total score; Craft Story Immediate/Delayed; Number Span Forward, Number Span Backward; or MINT total score); 2) clinical diagnosis of normal cognition; 3) global CDR=0. NOTE: includes only the first available visit meeting criteria in items 1-3.

Table 6. Craft Story 21 Recall Delayed verbatim score by age, education, and sex, among clinically cognitive normal UDS participants with UDS3 battery, as of March 2017

Age (yrs)	Education (yrs)	Male						Female					
		n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
					-1SD	-1.5SD	-2SD				-1SD	-1.5SD	-2SD
<60	≤12	14	21.4	5.8	15.5	12.6	9.7	28	17.2	6.5	10.7	7.5	4.2
	13-15	26	18.9	7.2	11.7	8.1	4.5	56	19.3	7.2	12.0	8.4	4.8
	16	43	22.1	6.9	15.2	11.8	8.3	81	20.5	6.6	13.8	10.5	7.2
	17+	53	22.9	6.2	16.7	13.6	10.5	82	22.3	6.9	15.4	12.0	8.5
60-69	≤12	34	19.2	6.7	12.5	9.1	5.8	70	18.6	7.3	11.3	7.7	4.0
	13-15	51	18.9	6.0	12.9	9.9	6.9	152	19.1	6.4	12.8	9.6	6.4
	16	114	17.7	5.7	11.9	9.1	6.2	187	20.9	6.6	14.3	11.0	7.7
	17+	167	21.2	5.8	15.4	12.5	9.6	325	21.5	6.3	15.3	12.1	9.0
70-79	≤12	51	16.5	6.8	9.7	6.3	2.9	138	17.2	7.2	9.9	6.3	2.7
	13-15	64	17.0	6.2	10.8	7.6	4.5	173	19.3	6.4	12.8	9.6	6.4
	16	120	19.3	6.2	13.0	9.9	6.8	225	19.6	6.5	13.1	9.8	6.5
	17+	302	18.8	6.1	12.8	9.7	6.7	440	20.3	6.4	13.9	10.7	7.5
80-89	≤12	30	15.1	5.2	9.9	7.3	4.7	84	13.4	7.0	6.4	2.9	0.0
	13-15	27	15.4	6.7	8.7	5.4	2.0	110	17.0	7.4	9.6	5.8	2.1
	16	59	15.7	5.6	10.1	7.3	4.5	119	17.1	7.0	10.1	6.6	3.1
	17+	164	18.0	5.8	12.2	9.3	6.4	184	18.5	6.1	12.4	9.3	6.3
≥90	≤12	4	13.8	2.6	11.1	9.8	8.5	27	13.0	5.6	7.4	4.6	1.8
	13-15	6	14.5	7.2	7.3	3.7	0.1	12	14.4	4.9	9.5	7.1	4.6
	16	10	17.5	7.4	10.1	6.4	2.8	15	14.2	6.3	7.9	4.7	1.6
	17+	21	16.8	5.0	11.7	9.2	6.7	26	15.3	5.7	9.6	6.7	3.9

CRITERIA — Subjects must have: 1.) at least one UDS3 battery test score available (MoCA total score; Craft Story Immediate/Delayed; Number Span Forward, Number Span Backward; or MINT total score); 2) clinical diagnosis of normal cognition; 3) global CDR=0. NOTE: includes only the first available visit meeting criteria in items 1-3.

Table 7. Craft Story 21 Recall Delayed paraphrase score by age, education, and sex, among clinically cognitive normal UDS participants with UDS3 battery, as of March 2017

Age (yrs)	Education (yrs)	Male						Female					
		n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
					-1SD	-1.5SD	-2SD				-1SD	-1.5SD	-2SD
<60	≤12	14	15.5	4.8	10.7	8.3	6.0	28	14.3	3.8	10.5	8.6	6.7
	13-15	26	15.0	4.8	10.2	7.8	5.3	56	15.0	4.3	10.6	8.4	6.3
	16	43	17.4	4.0	13.4	11.4	9.4	81	16.4	4.4	12.0	9.8	7.6
	17+	53	17.3	3.2	14.1	12.4	10.8	82	17.1	4.1	13.0	10.9	8.8
60-69	≤12	34	15.4	4.2	11.2	9.1	7.0	70	14.8	4.7	10.0	7.7	5.3
	13-15	51	14.9	3.5	11.4	9.7	7.9	152	15.2	4.1	11.1	9.1	7.0
	16	114	14.6	3.6	11.0	9.2	7.4	187	16.5	3.7	12.9	11.0	9.2
	17+	167	16.7	3.3	13.4	11.8	10.1	325	16.7	3.7	13.1	11.2	9.4
70-79	≤12	51	13.1	4.4	8.7	6.5	4.3	138	13.7	4.6	9.1	6.8	4.5
	13-15	64	13.9	3.9	10.0	8.1	6.1	173	15.1	3.9	11.2	9.2	7.3
	16	120	15.2	3.7	11.4	9.6	7.7	225	15.7	3.9	11.7	9.8	7.8
	17+	302	15.2	3.8	11.4	9.5	7.6	440	16.0	3.8	12.2	10.3	8.4
80-89	≤12	30	12.1	3.8	8.3	6.4	4.5	84	11.0	5.4	5.7	3.0	0.3
	13-15	27	12.4	4.2	8.2	6.1	3.9	110	13.1	4.8	8.3	5.9	3.5
	16	59	13.1	3.7	9.4	7.5	5.7	119	14.1	4.6	9.5	7.2	4.8
	17+	164	14.5	3.7	10.8	8.9	7.1	184	14.9	4.1	10.8	8.8	6.7
≥90	≤12	4	11.5	1.0	10.5	10.0	9.5	27	10.6	4.2	6.4	4.3	2.2
	13-15	6	13.3	3.7	9.6	7.7	5.9	12	12.3	4.0	8.4	6.4	4.4
	16	10	13.0	4.6	8.4	6.1	3.8	15	11.5	4.5	7.0	4.8	2.5
	17+	21	13.8	2.7	11.1	9.7	8.3	26	12.4	4.7	7.7	5.3	3.0

CRITERIA — Subjects must have: 1.) at least one UDS3 battery test score available (MoCA total score; Craft Story Immediate/Delayed; Number Span Forward, Number Span Backward; or MINT total score); 2) clinical diagnosis of normal cognition; 3) global CDR=0. NOTE: includes only the first available visit meeting criteria in items 1-3.

Table 8. Benson Complex Figure Copy score by age, education, and sex, among clinically cognitive normal UDS participants with UDS3 battery, as of March 2017

Age (yrs)	Education (yrs)	Male						Female					
		n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
					-1SD	-1.5SD	-2SD				-1SD	-1.5SD	-2SD
<60	≤12	14	15.4	1.1	14.3	13.7	13.2	28	15.3	1.4	13.8	13.1	12.4
	13-15	26	15.4	1.5	13.9	13.1	12.4	56	15.6	1.1	14.5	14.0	13.4
	16	42	16.1	1.1	15.0	14.5	13.9	80	15.8	1.2	14.5	13.9	13.3
	17+	54	16.1	0.9	15.2	14.8	14.3	82	15.7	1.3	14.4	13.7	13.1
60-69	≤12	35	15.6	1.4	14.3	13.6	12.9	71	15.3	1.6	13.7	12.9	12.1
	13-15	51	15.6	1.3	14.3	13.7	13.0	155	15.6	1.3	14.3	13.7	13.0
	16	114	15.8	1.2	14.6	14.1	13.5	186	15.6	1.3	14.3	13.7	13.1
	17+	168	15.8	1.1	14.6	14.1	13.5	327	15.9	1.1	14.8	14.3	13.7
70-79	≤12	51	15.2	1.5	13.7	13.0	12.2	139	15.3	1.5	13.8	13.1	12.4
	13-15	65	15.3	1.5	13.8	13.1	12.4	174	15.4	1.4	14.0	13.4	12.7
	16	120	15.5	1.5	14.0	13.3	12.6	225	15.6	1.4	14.2	13.5	12.8
	17+	301	15.7	1.3	14.3	13.7	13.0	441	15.9	1.1	14.8	14.2	13.7
80-89	≤12	30	14.9	2.1	12.8	11.8	10.8	84	14.8	1.7	13.1	12.2	11.4
	13-15	27	14.6	3.4	11.2	9.5	7.8	109	15.2	1.9	13.2	12.2	11.3
	16	60	15.2	1.6	13.7	12.9	12.1	119	15.6	1.3	14.3	13.6	12.9
	17+	164	15.6	1.4	14.2	13.5	12.8	186	15.6	1.5	14.1	13.4	12.6
≥90	≤12	4	13.8	2.1	11.7	10.7	9.6	27	15.6	1.5	14.0	13.3	12.5
	13-15	6	16.0	1.3	14.7	14.1	13.5	11	15.0	1.7	13.3	12.4	11.5
	16	11	15.5	1.5	14.0	13.3	12.5	15	15.3	1.5	13.8	13.1	12.3
	17+	21	16.3	1.1	15.2	14.7	14.2	27	15.0	1.4	13.6	12.9	12.2

CRITERIA — Subjects must have: 1) at least one UDS3 battery test score available (MoCA total score; Craft Story Immediate/Delayed; Number Span Forward, Number Span Backward; or MINT total score); 2) clinical diagnosis of normal cognition; 3) global CDR=0. NOTE: includes only the first available visit meeting criteria in items 1-3.

Table 9. Benson Complex Figure Recall score by age, education, and sex, among clinically cognitive normal UDS participants with UDS3 battery, as of March 2017

Age (yrs)	Education (yrs)	Male						Female					
		n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
					-1SD	-1.5SD	-2SD				-1SD	-1.5SD	-2SD
<60	≤12	14	12.9	2.3	10.6	9.4	8.3	28	12.1	2.2	9.9	8.8	7.7
	13-15	26	12.4	2.9	9.4	8.0	6.5	56	12.5	1.9	10.6	9.6	8.6
	16	42	13.2	2.5	10.8	9.5	8.3	80	12.5	2.5	10.0	8.7	7.4
	17+	54	13.4	2.5	10.9	9.7	8.5	82	12.5	2.5	10.0	8.8	7.5
60-69	≤12	35	12.2	3.0	9.1	7.6	6.1	70	11.1	3.2	7.9	6.3	4.7
	13-15	51	12.1	3.0	9.1	7.6	6.1	155	11.8	2.8	9.0	7.6	6.2
	16	113	12.0	2.4	9.6	8.4	7.1	186	11.5	2.9	8.6	7.2	5.8
	17+	167	12.3	2.8	9.5	8.1	6.7	326	12.0	2.7	9.3	7.9	6.6
70-79	≤12	51	10.8	2.9	7.9	6.5	5.0	139	10.1	3.2	6.9	5.3	3.7
	13-15	65	10.7	3.4	7.3	5.6	3.9	174	10.8	3.2	7.7	6.1	4.5
	16	120	11.5	3.2	8.3	6.7	5.0	224	11.3	2.9	8.4	6.9	5.5
	17+	301	11.7	2.9	8.8	7.4	5.9	441	11.3	2.8	8.5	7.1	5.7
80-89	≤12	30	9.1	4.0	5.1	3.1	1.1	83	8.2	3.8	4.5	2.6	0.7
	13-15	27	11.0	3.2	7.8	6.3	4.7	109	9.4	3.4	6.1	4.4	2.7
	16	60	10.7	3.1	7.5	6.0	4.4	118	10.2	3.1	7.1	5.6	4.0
	17+	164	11.1	2.7	8.4	7.0	5.7	186	10.1	3.2	6.9	5.3	3.7
≥90	≤12	4	9.8	3.0	6.8	5.3	3.8	27	7.9	3.6	4.3	2.5	0.7
	13-15	6	10.0	2.3	7.7	6.6	5.4	11	8.8	4.4	4.4	2.2	0.0
	16	11	9.6	4.2	5.4	3.3	1.2	15	9.2	3.9	5.3	3.4	1.5
	17+	21	11.1	2.9	8.2	6.7	5.2	26	9.5	3.7	5.8	4.0	2.1

CRITERIA — Subjects must have: 1) at least one UDS3 battery test score available (MoCA total score; Craft Story Immediate/Delayed; Number Span Forward, Number Span Backward; or MINT total score); 2) clinical diagnosis of normal cognition; 3) global CDR=0. NOTE: includes only the first available visit meeting criteria in criteria 1-3.

Table 10. Number Span Test Forward (correct trials) score by age, education, and sex, among clinically cognitive normal UDS participants with UDS3 battery, as of March 2017

Age (yrs)	Education (yrs)	Male						Female					
		n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
					-1SD	-1.5SD	-2SD				-1SD	-1.5SD	-2SD
<60	≤12	14	8.8	2.6	6.2	4.9	3.6	28	8.6	2.2	6.4	5.3	4.3
	13-15	26	8.7	1.9	6.8	5.8	4.9	56	8.3	2.4	5.9	4.7	3.5
	16	43	8.3	2.6	5.7	4.4	3.1	81	8.7	2.2	6.5	5.3	4.2
	17+	54	9.0	2.4	6.6	5.4	4.2	81	9.2	2.5	6.8	5.5	4.3
60-69	≤12	35	8.5	2.7	5.7	4.4	3.0	70	7.6	2.0	5.6	4.6	3.5
	13-15	51	7.9	2.6	5.3	4.0	2.7	155	7.6	2.2	5.4	4.3	3.2
	16	114	8.5	2.1	6.5	5.4	4.4	187	8.3	2.3	6.0	4.9	3.8
	17+	168	9.1	2.4	6.8	5.6	4.4	328	8.6	2.4	6.2	5.1	3.9
70-79	≤12	51	8.0	2.3	5.7	4.5	3.3	139	7.3	2.2	5.1	4.0	2.9
	13-15	65	7.6	2.4	5.2	4.1	2.9	174	7.8	2.2	5.6	4.5	3.4
	16	121	8.9	2.3	6.5	5.4	4.2	225	8.2	2.1	6.1	5.0	3.9
	17+	302	8.7	2.3	6.4	5.3	4.2	441	8.5	2.3	6.2	5.0	3.9
80-89	≤12	30	6.8	2.3	4.5	3.3	2.1	86	6.8	2.1	4.7	3.6	2.5
	13-15	27	7.9	2.3	5.6	4.4	3.3	109	8.1	2.0	6.1	5.1	4.1
	16	60	7.8	2.0	5.8	4.8	3.7	119	8.0	2.2	5.8	4.7	3.5
	17+	163	8.6	2.4	6.1	4.9	3.7	187	7.9	2.2	5.8	4.7	3.6
≥90	≤12	4	6.0	1.8	4.2	3.3	2.3	27	6.2	1.1	5.1	4.5	4.0
	13-15	6	8.2	2.9	5.3	3.9	2.5	12	7.6	1.5	6.1	5.3	4.6
	16	11	6.5	1.5	5.0	4.3	3.5	15	8.9	2.9	6.1	4.6	3.2
	17+	21	8.2	2.0	6.2	5.1	4.1	27	8.3	1.8	6.5	5.6	4.7

CRITERIA — Subjects must have: 1) at least one UDS3 battery test score available (MoCA total score; Craft Story Immediate/Delayed; Number Span Forward, Number Span Backward; or MINT total score); 2) clinical diagnosis of normal cognition; 3) global CDR=0.
NOTE: includes only the first available visit meeting criteria in items 1-3.

Table 11. Number Span Test Forward (longest span) score by age, education, and sex, among clinically cognitive normal UDS participants with UDS3 battery, as of March 2017

Age (yrs)	Education (yrs)	Male						Female					
		n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
					-1SD	-1.5SD	-2SD				-1SD	-1.5SD	-2SD
<60	≤12	14	6.8	1.3	5.5	4.9	4.3	28	6.8	1.3	5.5	4.8	4.2
	13-15	26	6.9	1.1	5.8	5.2	4.7	56	6.8	1.5	5.3	4.6	3.9
	16	43	6.7	1.3	5.4	4.7	4.1	81	7.0	1.3	5.7	5.0	4.4
	17+	54	7.0	1.3	5.7	5.0	4.4	81	7.2	1.3	5.8	5.2	4.5
60-69	≤12	35	6.6	1.6	5.1	4.3	3.5	70	6.3	1.3	5.0	4.4	3.8
	13-15	51	6.5	1.4	5.0	4.3	3.6	155	6.3	1.2	5.0	4.4	3.8
	16	114	6.9	1.2	5.7	5.1	4.4	187	6.7	1.3	5.4	4.8	4.2
	17+	168	7.1	1.3	5.9	5.3	4.6	328	6.8	1.3	5.5	4.9	4.2
70-79	≤12	51	6.6	1.3	5.3	4.6	3.9	139	6.1	1.4	4.7	4.0	3.3
	13-15	65	6.4	1.6	4.8	4.0	3.2	174	6.4	1.3	5.1	4.5	3.8
	16	121	7.1	1.3	5.8	5.2	4.5	225	6.7	1.2	5.5	4.9	4.3
	17+	302	6.9	1.3	5.6	5.0	4.4	441	6.8	1.3	5.5	4.9	4.2
80-89	≤12	30	5.8	1.3	4.5	3.8	3.2	86	5.9	1.3	4.6	3.9	3.2
	13-15	27	6.4	1.3	5.1	4.4	3.7	109	6.6	1.2	5.4	4.8	4.2
	16	60	6.4	1.3	5.1	4.4	3.8	119	6.6	1.2	5.4	4.7	4.1
	17+	163	6.9	1.3	5.6	4.9	4.3	187	6.5	1.2	5.3	4.7	4.1
≥90	≤12	4	5.3	1.3	4.0	3.4	2.7	27	5.6	0.7	4.9	4.5	4.2
	13-15	6	6.5	1.8	4.7	3.9	3.0	12	6.4	1.1	5.3	4.8	4.2
	16	11	5.9	1.1	4.8	4.2	3.6	15	6.9	1.7	5.2	4.4	3.5
	17+	21	6.6	1.2	5.5	4.9	4.3	27	6.7	1.3	5.4	4.7	4.1

CRITERIA — Subjects must have: 1) at least one UDS3 battery test score available (MoCA total score; Craft Story Immediate/Delayed; Number Span Forward, Number Span Backward; or MINT total score); 2) clinical diagnosis of normal cognition; 3) global CDR=0.
NOTE: includes only the first available visit meeting criteria in items 1-3.

Table 12. Number Span Test Backward (correct trials) score by age, education, and sex, among clinically cognitive normal UDS participants with UDS3 battery, as of March 2017

Age (yrs)	Education (yrs)	Male						Female					
		n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
					-1SD	-1.5SD	-2SD				-1SD	-1.5SD	-2SD
<60	≤12	14	7.8	2.9	4.9	3.5	2.0	28	7.8	2.8	5.0	3.6	2.2
	13-15	26	7.3	2.2	5.0	3.9	2.8	56	7.3	2.2	5.1	4.0	2.9
	16	43	7.1	2.2	4.8	3.7	2.6	81	7.7	2.1	5.6	4.6	3.6
	17+	54	8.5	2.0	6.5	5.5	4.5	81	8.3	2.2	6.1	5.0	3.9
60-69	≤12	35	6.7	2.6	4.0	2.7	1.4	70	6.2	2.3	4.0	2.8	1.7
	13-15	51	6.8	2.5	4.3	3.0	1.8	155	6.9	2.3	4.6	3.4	2.2
	16	114	7.5	2.0	5.5	4.5	3.5	187	7.4	2.2	5.2	4.1	3.0
	17+	168	8.1	2.0	6.1	5.1	4.1	328	7.7	2.1	5.6	4.6	3.5
70-79	≤12	51	6.4	2.0	4.4	3.4	2.5	139	6.1	2.2	3.9	2.8	1.7
	13-15	65	6.2	1.9	4.3	3.3	2.4	174	6.6	2.0	4.5	3.5	2.5
	16	121	7.8	2.3	5.5	4.4	3.3	225	7.2	2.0	5.2	4.2	3.2
	17+	302	7.5	2.2	5.3	4.3	3.2	440	7.5	2.1	5.3	4.3	3.2
80-89	≤12	30	5.4	2.0	3.4	2.4	1.5	85	5.4	2.2	3.2	2.1	1.0
	13-15	27	6.8	2.2	4.6	3.5	2.3	109	6.8	2.0	4.7	3.7	2.7
	16	60	6.3	1.7	4.6	3.7	2.8	119	7.2	2.1	5.1	4.0	3.0
	17+	164	7.3	2.2	5.1	4.0	2.9	187	6.8	2.2	4.7	3.6	2.5
≥90	≤12	4	5.3	2.6	2.6	1.3	0.0	27	5.1	1.8	3.3	2.3	1.4
	13-15	6	7.3	2.0	5.4	4.4	3.4	12	5.8	1.5	4.3	3.5	2.8
	16	11	6.5	2.4	4.1	2.9	1.7	15	7.3	2.9	4.4	2.9	1.4
	17+	21	6.7	2.2	4.5	3.4	2.3	27	7.1	2.4	4.7	3.5	2.3

CRITERIA — Subjects must have: 1) at least one UDS3 battery test score available (MoCA total score; Craft Story Immediate/Delayed; Number Span Forward, Number Span Backward; or MINT total score); 2) clinical diagnosis of normal cognition; 3) global CDR=0.
NOTE: includes only the first available visit meeting criteria in criteria 1-3.

Table 13. Number Span Test Backward (longest span) score by age, education, and sex, among clinically cognitive normal UDS participants with UDS3 battery, as of March 2017

Age (yrs)	Education (yrs)	Male						Female					
		n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
					-1SD	-1.5SD	-2SD				-1SD	-1.5SD	-2SD
<60	≤12	14	5.4	1.7	3.8	3.0	2.1	28	5.4	1.6	3.8	3.0	2.2
	13-15	26	5.2	1.3	3.9	3.3	2.7	56	5.2	1.2	4.0	3.3	2.7
	16	43	5.2	1.4	3.8	3.1	2.3	81	5.3	1.2	4.1	3.5	2.9
	17+	54	5.8	1.2	4.7	4.1	3.5	81	5.7	1.2	4.5	3.9	3.3
60-69	≤12	35	4.9	1.5	3.3	2.6	1.8	70	4.4	1.3	3.1	2.4	1.7
	13-15	51	4.8	1.5	3.3	2.6	1.8	155	4.9	1.3	3.6	2.9	2.3
	16	114	5.3	1.2	4.1	3.5	2.9	187	5.2	1.3	3.9	3.3	2.7
	17+	168	5.6	1.2	4.5	3.9	3.3	328	5.4	1.2	4.1	3.5	2.9
70-79	≤12	51	4.7	1.2	3.5	2.9	2.4	139	4.5	1.4	3.1	2.3	1.6
	13-15	65	4.6	1.1	3.4	2.9	2.3	174	4.8	1.2	3.6	3.0	2.4
	16	121	5.3	1.4	3.9	3.2	2.6	225	5.1	1.2	3.9	3.4	2.8
	17+	302	5.3	1.3	4.0	3.4	2.7	440	5.3	1.2	4.1	3.4	2.8
80-89	≤12	30	4.0	1.2	2.8	2.3	1.7	85	4.1	1.3	2.8	2.1	1.5
	13-15	27	4.8	1.2	3.6	3.0	2.5	109	4.9	1.2	3.7	3.1	2.5
	16	60	4.6	1.1	3.5	3.0	2.4	119	5.1	1.3	3.8	3.1	2.5
	17+	164	5.2	1.3	3.9	3.2	2.6	187	4.9	1.2	3.7	3.1	2.5
≥90	≤12	4	4.3	1.9	2.4	1.4	0.5	27	4.0	1.1	2.9	2.3	1.8
	13-15	6	5.3	1.6	3.7	2.9	2.1	12	4.5	1.0	3.5	3.0	2.5
	16	11	4.7	1.5	3.2	2.5	1.7	15	5.1	1.8	3.3	2.4	1.5
	17+	21	4.8	1.2	3.6	2.9	2.3	27	5.0	1.4	3.6	2.9	2.2

CRITERIA — Subjects must have: 1) at least one UDS3 battery test score available (MoCA total score; Craft Story Immediate/Delayed; Number Span Forward, Number Span Backward; or MINT total score); 2) clinical diagnosis of normal cognition; 3) global CDR=0.
NOTE: includes only the first available visit meeting criteria in items 1-3.

Table 14. Multilingual Naming Test (MINT) score by age, education, and sex, among clinically cognitive normal UDS participants with UDS3 battery, as of March 2017

Age (yrs)	Education (yrs)	Male						Female					
		n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
					-1SD	-1.5SD	-2SD				-1SD	-1.5SD	-2SD
<60	≤12	14	29.4	1.9	27.6	26.6	25.7	28	29.0	1.9	27.1	26.2	25.3
	13-15	26	30.5	1.2	29.3	28.7	28.1	56	29.2	2.2	27.0	25.9	24.7
	16	43	30.3	2.1	28.2	27.1	26.0	81	30.2	1.9	28.3	27.4	26.4
	17+	54	31.1	1.1	30.0	29.5	28.9	82	30.2	2.2	28.0	26.9	25.8
60-69	≤12	33	30.5	1.5	28.9	28.1	27.4	69	28.8	2.5	26.3	25.1	23.9
	13-15	51	30.3	1.8	28.5	27.7	26.8	153	29.2	2.6	26.6	25.3	24.1
	16	114	30.5	2.1	28.4	27.3	26.3	187	30.4	1.9	28.5	27.6	26.6
	17+	168	30.8	1.7	29.1	28.3	27.4	327	30.6	1.7	28.9	28.1	27.2
70-79	≤12	49	29.9	2.0	28.0	27.0	26.0	132	28.5	2.9	25.6	24.1	22.6
	13-15	63	30.0	2.0	28.0	27.0	26.0	173	29.2	3.3	25.9	24.2	22.6
	16	121	30.6	1.9	28.7	27.8	26.8	225	30.0	2.1	28.0	26.9	25.9
	17+	302	30.9	1.8	29.0	28.1	27.2	439	30.0	2.2	27.8	26.7	25.6
80-89	≤12	29	28.8	2.6	26.2	24.9	23.6	82	27.3	3.2	24.1	22.5	20.9
	13-15	27	30.3	1.3	29.0	28.4	27.7	109	28.8	2.7	26.0	24.7	23.3
	16	60	30.9	1.4	29.4	28.7	28.0	117	29.4	2.6	26.8	25.5	24.2
	17+	164	30.8	1.6	29.3	28.5	27.7	184	29.6	2.4	27.2	26.0	24.7
≥90	≤12	4	28.8	2.1	26.7	25.7	24.6	27	25.3	4.1	21.3	19.2	17.2
	13-15	6	25.7	6.8	18.8	15.4	12.0	11	28.4	4.3	24.0	21.9	19.7
	16	11	30.3	1.7	28.5	27.7	26.8	15	28.6	2.3	26.3	25.1	24.0
	17+	21	30.4	1.9	28.6	27.6	26.7	27	28.4	3.8	24.6	22.7	20.8

CRITERIA — Subjects must have: 1) at least one UDS3 battery test score available (MoCA total score; Craft Story Immediate/Delayed; Number Span Forward, Number Span Backward; or MINT total score); 2) clinical diagnosis of normal cognition; 3) global CDR=0.
NOTE: includes only the first available visit meeting criteria in items 1-3.

Table 15. Phonemic Test – F-words correct score by age, education, and sex, among clinically cognitive normal UDS participants with UDS3 battery, as of March 2017

Age (yrs)	Education (yrs)	Male						Female					
		n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
					-1SD	-1.5SD	-2SD				-1SD	-1.5SD	-2SD
<60	≤12	14	15.4	3.6	11.7	9.9	8.1	28	15.6	4.8	10.8	8.4	6.0
	13-15	26	13.9	4.2	9.7	7.6	5.6	56	15.1	4.4	10.7	8.5	6.3
	16	42	16.5	4.5	12.0	9.7	7.5	81	16.3	4.0	12.3	10.3	8.3
	17+	53	17.5	4.2	13.2	11.1	9.0	82	17.3	4.3	13.1	10.9	8.8
60-69	≤12	35	13.9	4.1	9.8	7.7	5.7	71	13.6	5.0	8.6	6.1	3.6
	13-15	51	13.4	3.8	9.5	7.6	5.7	154	14.3	4.5	9.8	7.5	5.3
	16	114	15.0	4.4	10.6	8.4	6.3	187	15.7	4.8	10.9	8.5	6.1
	17+	167	16.0	4.9	11.1	8.7	6.2	328	16.4	4.3	12.1	9.9	7.8
70-79	≤12	51	12.1	4.4	7.6	5.4	3.2	139	13.0	4.6	8.4	6.2	3.9
	13-15	65	12.7	3.9	8.9	6.9	5.0	174	14.1	4.8	9.3	6.9	4.5
	16	121	14.3	4.2	10.1	8.0	5.9	226	15.1	4.5	10.6	8.4	6.2
	17+	302	15.4	4.4	11.0	8.8	6.6	441	16.0	4.6	11.3	9.0	6.7
80-89	≤12	30	10.4	5.3	5.1	2.4	0.0	84	11.9	4.9	7.0	4.5	2.1
	13-15	27	13.0	4.1	8.9	6.9	4.8	110	13.6	4.5	9.2	6.9	4.7
	16	61	14.6	5.3	9.3	6.7	4.1	119	15.0	4.7	10.2	7.8	5.5
	17+	164	15.7	4.8	10.9	8.5	6.1	186	15.6	4.3	11.3	9.2	7.0
≥90	≤12	4	11.3	6.4	4.8	1.6	0.0	27	11.7	4.5	7.2	5.0	2.8
	13-15	6	9.3	2.2	7.2	6.1	5.0	12	12.7	4.8	7.8	5.4	3.0
	16	11	12.2	3.0	9.2	7.7	6.2	15	15.2	4.0	11.2	9.2	7.2
	17+	21	16.4	6.4	10.0	6.7	3.5	27	14.8	3.6	11.2	9.4	7.6

CRITERIA — Subjects must have: 1) at least one UDS3 battery test score available (MoCA total score; Craft Story Immediate/Delayed; Number Span Forward, Number Span Backward; or MINT total score); 2) clinical diagnosis of normal cognition; 3) global CDR=0.
NOTE: includes only the first available visit meeting criteria in items 1-3.

Table 16. Phonemic Test – L-words correct score by age, education, and sex, among clinically cognitive normal UDS participants with UDS3 battery, as of March 2017

Age (yrs)	Education (yrs)	Male						Female					
		n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
					-1SD	-1.5SD	-2SD				-1SD	-1.5SD	-2SD
<60	≤12	14	15.1	4.5	10.6	8.3	6.0	28	14.3	4.7	9.6	7.3	4.9
	13-15	25	12.2	4.0	8.2	6.2	4.2	56	14.1	4.5	9.7	7.4	5.2
	16	42	15.4	3.6	11.8	10.0	8.2	81	15.2	3.9	11.4	9.4	7.5
	17+	53	16.4	4.3	12.2	10.1	7.9	82	16.2	4.2	12.1	10.0	7.9
60-69	≤12	34	12.9	4.4	8.4	6.2	4.0	70	13.2	4.1	9.1	7.0	5.0
	13-15	51	12.4	4.0	8.4	6.4	4.4	154	13.3	4.9	8.5	6.1	3.6
	16	112	14.0	4.2	9.9	7.8	5.7	187	15.2	4.5	10.7	8.4	6.2
	17+	168	15.4	4.4	11.0	8.8	6.6	327	15.8	3.9	11.9	10.0	8.0
70-79	≤12	51	11.0	4.4	6.6	4.4	2.2	139	11.6	4.2	7.4	5.3	3.2
	13-15	64	12.0	3.9	8.1	6.2	4.2	173	13.4	4.5	8.9	6.6	4.4
	16	120	13.6	3.6	10.0	8.1	6.3	222	14.2	4.1	10.1	8.1	6.0
	17+	301	14.5	4.3	10.2	8.0	5.9	441	15.2	4.4	10.8	8.6	6.3
80-89	≤12	29	10.8	4.9	5.8	3.4	0.9	82	11.0	4.7	6.3	3.9	1.6
	13-15	27	12.3	3.8	8.4	6.5	4.6	109	12.5	4.2	8.3	6.2	4.2
	16	60	13.0	4.4	8.6	6.5	4.3	119	13.9	3.9	10.0	8.0	6.1
	17+	164	15.0	4.1	10.9	8.8	6.7	187	15.0	4.4	10.5	8.3	6.1
≥90	≤12	4	11.5	4.7	6.8	4.5	2.2	27	10.9	4.1	6.8	4.8	2.8
	13-15	6	8.8	2.1	6.7	5.6	4.6	12	12.3	4.7	7.7	5.3	3.0
	16	11	10.3	4.2	6.1	4.0	1.9	15	13.8	4.3	9.5	7.3	5.1
	17+	21	14.5	6.2	8.3	5.2	2.1	27	13.1	3.5	9.6	7.9	6.1

CRITERIA — Subjects must have: 1) at least one UDS3 battery test score available (MoCA total score; Craft Story Immediate/Delayed; Number Span Forward, Number Span Backward; or MINT total score); 2) clinical diagnosis of normal cognition; 3) global CDR=0.
NOTE: includes only the first available visit meeting criteria in items 1-3.

Table 17. Phonemic Test – F & L words correct score by age, education, and sex, among clinically cognitive normal UDS participants with UDS3 battery, as of March 2017

Age (yrs)	Education (yrs)	Male						Female					
		n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
					-1SD	-1.5SD	-2SD				-1SD	-1.5SD	-2SD
<60	≤12	14	30.4	7.3	23.2	19.5	15.9	28	29.3	9.0	20.3	15.8	11.3
	13-15	25	26.1	7.3	18.8	15.2	11.5	56	27.8	8.8	18.9	14.5	10.1
	16	42	31.6	7.8	23.8	19.9	16.0	81	31.3	7.6	23.6	19.8	16.0
	17+	53	33.5	8.0	25.5	21.5	17.5	82	33.1	8.1	25.1	21.0	17.0
60-69	≤12	34	26.8	7.7	19.1	15.2	11.3	70	26.7	8.2	18.5	14.4	10.4
	13-15	51	25.4	7.4	18.0	14.3	10.6	154	27.4	8.9	18.5	14.0	9.5
	16	112	28.7	7.9	20.8	16.9	13.0	187	30.6	8.6	21.9	17.6	13.3
	17+	167	31.4	8.6	22.9	18.6	14.3	327	31.9	7.5	24.4	20.7	17.0
70-79	≤12	51	22.9	8.1	14.8	10.8	6.7	139	24.7	8.1	16.6	12.6	8.5
	13-15	64	24.4	6.7	17.7	14.3	10.9	173	27.5	8.9	18.6	14.1	9.7
	16	120	27.6	7.0	20.6	17.1	13.5	222	29.0	7.8	21.2	17.3	13.4
	17+	301	29.9	8.1	21.8	17.7	13.7	441	31.1	8.6	22.5	18.2	13.9
80-89	≤12	29	21.0	9.9	11.2	6.2	1.3	82	22.9	9.0	13.9	9.4	4.9
	13-15	27	25.3	7.6	17.7	13.9	10.1	109	26.1	7.9	18.2	14.2	10.2
	16	60	27.7	8.9	18.8	14.3	9.9	119	28.8	8.0	20.8	16.8	12.7
	17+	164	30.7	8.1	22.6	18.5	14.5	186	30.6	8.1	22.5	18.4	14.4
≥90	≤12	4	22.8	10.9	11.9	6.4	1.0	27	22.6	8.2	14.4	10.3	6.2
	13-15	6	18.2	4.0	14.1	12.1	10.1	12	25.0	9.3	15.7	11.1	6.5
	16	11	22.6	6.3	16.4	13.2	10.1	15	29.1	7.6	21.4	17.6	13.8
	17+	21	30.9	11.9	19.0	13.0	7.1	27	28.0	6.5	21.4	18.2	14.9

CRITERIA — Subjects must have: 1) at least one UDS3 battery test score available (MoCA total score; Craft Story Immediate/Delayed; Number Span Forward, Number Span Backward; or MINT total score); 2) clinical diagnosis of normal cognition; 3) global CDR=0. NOTE: includes only the first available visit meeting criteria in items 1-3.

Table 18. Category Fluency – Animals List Generation score by age, education, and sex, among clinically cognitive normal UDS participants with UDS 3 battery, as of March 2017

Age (yrs)	Education (yrs)	Male						Female					
		n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
					-1SD	-1.5SD	-2SD				-1SD	-1.5SD	-2SD
<60	≤12	14	20.7	4.7	16.0	13.6	11.3	28	22.0	5.3	16.7	14.0	11.4
	13-15	26	21.2	5.1	16.0	13.5	10.9	56	21.6	4.8	16.8	14.4	12.0
	16	43	23.9	5.2	18.8	16.2	13.6	81	23.2	4.6	18.6	16.3	14.0
	17+	54	25.7	5.2	20.6	18.0	15.4	82	25.8	5.5	20.3	17.6	14.9
60-69	≤12	35	21.0	4.0	17.0	15.0	13.0	71	19.7	4.6	15.1	12.8	10.5
	13-15	51	21.9	5.0	16.9	14.4	11.9	155	21.0	5.6	15.4	12.6	9.8
	16	114	20.9	4.8	16.1	13.6	11.2	187	22.7	5.6	17.1	14.3	11.5
	17+	168	23.9	5.2	18.7	16.1	13.5	329	24.2	5.7	18.5	15.6	12.8
70-79	≤12	51	18.9	5.5	13.5	10.8	8.0	139	18.8	5.3	13.5	10.9	8.3
	13-15	65	19.5	4.3	15.2	13.1	10.9	174	19.5	4.9	14.7	12.2	9.8
	16	121	20.8	4.6	16.2	13.9	11.5	225	21.4	5.0	16.4	13.9	11.4
	17+	301	22.2	5.4	16.7	14.0	11.3	441	22.4	5.4	16.9	14.2	11.5
80-89	≤12	30	16.7	6.1	10.6	7.5	4.5	86	16.0	4.8	11.1	8.7	6.3
	13-15	27	18.0	5.1	12.9	10.4	7.8	110	17.9	5.0	12.9	10.4	7.8
	16	61	18.4	5.0	13.4	10.9	8.4	119	19.9	4.4	15.5	13.4	11.2
	17+	164	20.9	5.8	15.2	12.3	9.4	187	21.2	6.0	15.2	12.2	9.2
≥90	≤12	4	14.5	4.2	10.3	8.2	6.1	27	13.8	4.4	9.4	7.2	5.0
	13-15	6	14.2	5.6	8.6	5.8	3.0	12	18.0	5.8	12.2	9.2	6.3
	16	11	17.9	4.8	13.1	10.7	8.3	15	18.1	5.0	13.1	10.7	8.2
	17+	21	19.2	5.3	13.9	11.2	8.6	27	18.3	5.2	13.2	10.6	8.0

CRITERIA — Subjects must have: 1) at least one UDS3 battery test score available (MoCA total score; Craft Story Immediate/Delayed; Number Span Forward, Number Span Backward; or MINT total score); 2) clinical diagnosis of normal cognition; 3) global CDR=0. NOTE: includes only the first available visit meeting criteria in items 1-3.

Table 19. Category Fluency – Vegetables List Generation score by age, education, and sex, among clinically cognitive normal UDS participants with UDS 3 battery, as of March 2017

Age (yrs)	Education (yrs)	Male						Female					
		n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
					-1SD	-1.5SD	-2SD				-1SD	-1.5SD	-2SD
<60	≤12	14	14.4	4.7	9.6	7.3	4.9	28	15.2	3.2	12.0	10.5	8.9
	13-15	26	14.7	3.9	10.7	8.8	6.8	56	15.2	3.9	11.3	9.3	7.3
	16	43	14.7	4.7	10.0	7.6	5.3	81	16.6	3.2	13.3	11.7	10.1
	17+	54	16.6	3.8	12.7	10.8	8.9	82	17.8	4.4	13.4	11.2	9.0
60-69	≤12	35	14.4	4.1	10.3	8.3	6.3	71	14.8	3.5	11.3	9.6	7.9
	13-15	51	13.0	3.5	9.6	7.9	6.1	154	15.8	4.1	11.7	9.7	7.6
	16	113	13.7	3.7	10.0	8.2	6.3	187	17.0	4.0	12.9	10.9	8.9
	17+	168	14.7	3.8	10.9	8.9	7.0	329	17.7	4.5	13.2	11.0	8.8
70-79	≤12	51	11.6	3.3	8.4	6.7	5.1	139	14.4	4.2	10.2	8.1	6.0
	13-15	65	12.4	3.7	8.7	6.8	5.0	174	15.4	3.8	11.6	9.7	7.8
	16	120	13.0	3.4	9.6	7.9	6.2	225	16.0	3.7	12.4	10.5	8.7
	17+	302	13.9	4.4	9.5	7.3	5.1	441	16.3	4.1	12.3	10.2	8.2
80-89	≤12	30	10.5	4.3	6.2	4.0	1.9	86	12.9	3.5	9.5	7.7	6.0
	13-15	27	13.1	4.3	8.8	6.6	4.4	109	14.3	3.5	10.8	9.1	7.3
	16	60	11.3	4.1	7.2	5.2	3.1	119	14.7	3.8	10.9	9.0	7.1
	17+	164	13.4	4.5	9.0	6.7	4.5	186	15.6	4.6	11.0	8.7	6.4
≥90	≤12	4	8.0	2.4	5.6	4.3	3.1	27	11.5	3.5	8.0	6.3	4.5
	13-15	6	10.0	4.9	5.1	2.7	0.2	12	13.4	2.7	10.7	9.3	7.9
	16	11	9.4	3.1	6.3	4.8	3.2	15	14.4	4.2	10.2	8.0	5.9
	17+	21	13.3	4.4	8.9	6.8	4.6	27	13.4	4.0	9.4	7.4	5.4

CRITERIA — Subjects must have: 1) at least one UDS3 battery test score available (MoCA total score; Craft Story Immediate/Delayed; Number Span Forward, Number Span Backward; or MINT total score); 2) clinical diagnosis of normal cognition; 3) global CDR=0. NOTE: includes only the first available visit meeting criteria in items 1-3.

Table 20. Trail Making Part A score by age, education, and sex, among clinically cognitive normal UDS participants with UDS 3 battery, as of March 2017

Age (yrs)	Education (yrs)	Male						Female					
		n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
					+1SD	+1.5SD	+2SD				+1SD	+1.5SD	+2SD
<60	≤12	14	26.1	12.8	38.9	45.3	51.8	28	25.6	9.2	34.8	39.4	44.0
	13-15	26	27.4	7.9	35.3	39.3	43.2	56	22.7	9.0	31.7	36.2	40.7
	16	42	21.6	9.6	31.2	36.0	40.9	80	22.4	7.3	29.7	33.3	37.0
	17+	53	22.6	18.6	41.2	50.5	59.8	82	21.1	9.1	30.3	34.8	39.4
60-69	≤12	35	32.1	14.5	46.5	53.8	61.0	71	31.6	12.6	44.2	50.5	56.8
	13-15	51	32.1	19.5	51.6	61.4	71.2	154	29.4	11.2	40.6	46.2	51.8
	16	114	27.5	8.7	36.3	40.7	45.0	186	27.8	9.6	37.4	42.2	47.0
	17+	168	25.0	7.9	33.0	36.9	40.9	329	26.2	8.7	34.9	39.2	43.5
70-79	≤12	51	34.4	13.2	47.6	54.2	60.8	139	34.5	16.8	51.3	59.7	68.1
	13-15	65	35.1	11.6	46.7	52.4	58.2	174	33.5	11.9	45.4	51.4	57.3
	16	121	31.5	11.8	43.3	49.3	55.2	225	29.9	10.0	39.9	44.9	49.9
	17+	299	29.4	9.0	38.5	43.0	47.5	440	30.3	9.9	40.2	45.1	50.1
80-89	≤12	30	46.2	24.8	70.9	83.3	95.7	86	46.1	22.1	68.3	79.3	90.4
	13-15	27	32.5	12.0	44.5	50.5	56.5	110	41.2	19.5	60.7	70.4	80.1
	16	61	36.3	12.5	48.8	55.0	61.3	117	35.1	15.1	50.1	57.7	65.2
	17+	164	33.5	12.7	46.2	52.5	58.9	187	35.2	12.6	47.9	54.2	60.5
≥90	≤12	4	35.8	9.5	45.3	50.1	54.8	26	57.0	33.0	90.0	106.5	123.0
	13-15	6	40.7	7.2	47.8	51.4	55.0	11	35.5	11.0	46.5	52.0	57.5
	16	11	40.0	12.1	52.1	58.1	64.1	15	41.3	14.6	55.9	63.3	70.6
	17+	21	42.0	16.6	58.6	66.9	75.2	26	49.4	21.9	71.3	82.2	93.1

CRITERIA — Subjects must have: 1) at least one UDS3 battery test score available (MoCA total score; Craft Story Immediate/Delayed; Number Span Forward, Number Span Backward; or MINT total score); 2) clinical diagnosis of normal cognition; 3) global CDR=0. NOTE: includes only the first available visit meeting criteria in items 1-3.

Table 21. Trail Making Part B score by age, education, and sex, among clinically cognitive normal UDS participants with UDS 3 battery, as of March 2017

Age (yrs)	Education (yrs)	Male						Female					
		n	Mean	SD	Cutpoints			n	Mean	SD	Cutpoints		
					+1SD	+1.5SD	+2SD				+1SD	+1.5SD	+2SD
<60	≤12	14	72.6	41.6	114.2	135.0	155.8	28	64.5	28.6	93.1	107.4	121.7
	13-15	26	71.1	39.6	110.6	130.4	150.2	56	59.1	29.8	88.9	103.8	118.7
	16	42	52.6	19.4	72.0	81.8	91.5	79	51.2	15.4	66.6	74.3	82.0
	17+	53	53.3	32.5	85.8	102.0	118.3	82	49.8	20.9	70.6	81.1	91.5
60-69	≤12	34	72.1	31.7	103.8	119.7	135.5	71	92.4	47.0	139.5	163.0	186.5
	13-15	51	93.7	54.9	148.6	176.1	203.5	154	84.1	48.3	132.4	156.5	180.7
	16	114	67.7	21.7	89.4	100.3	111.1	186	68.4	25.3	93.7	106.3	118.9
	17+	168	59.5	19.3	78.8	88.5	98.1	328	64.2	26.7	90.9	104.3	117.6
70-79	≤12	49	109.3	57.2	166.5	195.1	223.7	136	108.0	63.1	171.2	202.7	234.3
	13-15	65	91.5	38.3	129.8	148.9	168.0	174	94.4	51.1	145.5	171.0	196.5
	16	121	80.9	35.3	116.1	133.8	151.4	224	77.1	38.5	115.6	134.8	154.0
	17+	298	73.8	29.8	103.6	118.5	133.5	440	75.9	31.7	107.6	123.5	139.3
80-89	≤12	29	151.8	82.6	234.4	275.7	317.0	82	144.5	79.8	224.2	264.1	304.0
	13-15	27	97.7	50.0	147.7	172.7	197.7	109	112.8	60.4	173.2	203.3	233.5
	16	61	93.1	34.3	127.4	144.6	161.7	116	95.7	48.8	144.5	168.9	193.3
	17+	163	88.0	42.5	130.5	151.8	173.0	185	93.0	41.4	134.3	155.0	175.7
≥90	≤12	4	149.3	47.1	196.3	219.9	243.4	24	200.7	88.8	289.4	333.8	378.2
	13-15	6	114.3	26.0	140.4	153.4	166.4	11	104.1	47.6	151.7	175.5	199.3
	16	11	131.5	66.3	197.9	231.0	264.2	15	138.2	69.2	207.4	242.1	276.7
	17+	21	111.0	47.5	158.5	182.3	206.1	25	133.3	82.5	215.8	257.1	298.3

CRITERIA — Subjects must have: 1) at least one UDS3 battery test score available (MoCA total score; Craft Story Immediate/Delayed; Number Span Forward, Number Span Backward; or MINT total score); 2) clinical diagnosis of normal cognition; 3) global CDR=0. NOTE: includes only the first available visit meeting criteria in items 1-3.