Appendix

Univariate and multivariate regression analysis with 95% confidence intervals of the regression coefficients (included are only coefficients significant at the .05 level of significance)

Table 1

Age 60–69 (Univariate model)

	Constant	Age
MMSE (Total Score)	33.49	-0.08
Cat. Fluency: Vegetables (Total in 60 seconds)	27.52	-0.20
Trail Making: A (Time in seconds)	-59.79	1.64
Trail Making: B (Time in seconds)	-136.88	3.85

Education (Univariate model)

	Constant	Education
Logical Memory A Immediate (Total Units)	9.55	2.10
Logical Memory A Delayed (Total Units)	8.61	1.98
Digit Span-Forward (Total Trials)	8.44	1.26
Digit Span-Forward (Longest Sequence)	5.75	0.64
Digit Span-Backward (Total Trials)	5.51	1.15
Digit Span-Backward (Longest Sequence)	4.23	0.59
Cat. Fluency: Animals (Total in 60 seconds)	21.13	3.20
Trail Making: A (Time in seconds)	50.15	-8.24
Trail Making: B (Time in seconds)	124.13	-24.75
WAIS-R Digit Symbol (Total Items in 90 seconds)	37.75	6.70
Boston Naming Test (Total Score)	28.54	0.82

Gender (Univariate model)

	Constant	Gender
Cat. Fluency: Vegetables (Total in 60 seconds)	15.61	-2.50

Age, Education, Gender (Multivariate model)

	Constant	Gender	Age	Education
Logical Memory A Immediate (Total Units)	9.55			2.10
Logical Memory A Delayed (Total Units)	8.61			1.98
Digit Span-Forward (Total Trials)	8.44			1.26
Digit Span-Forward (Longest Sequence)	5.75			0.64
Digit Span-Backward (Total Trials)	5.51			1.15
Digit Span-Backward (Longest Sequence)	9.00		-0.07	0.63
Cat. Fluency: Animals (Total in 60 seconds)	21.13			3.20
Cat. Fluency: Vegetables (Total in 60 seconds)	29.06	-2.51	-0.21	
Trail Making: A (Time in seconds)	-63.02		1.76	-9.08
Trail Making: B (Time in seconds)	-146.42		4.22	-26.76
WAIS-R Digit Symbol (Total Items in 90 seconds)	80.40	-3.22	-0.64	7.03
Boston Naming Test (Total Score)	28.54			0.82

Table 2

Age 70–79 (Univariate model)

	Constant	Age
Trail Making: A (Time in seconds)	-38.55	1.24
Trail Making: B (Time in seconds)	-155.31	3.89
WAIS-R Digit Symbol (Total Items in 90 seconds)	89.23	-0.72

Education (Univariate model)

	Constant	Education
MMSE: Orientation (Total Score)	9.55	0.21
MMSE (Total Score)	27.04	1.05
Logical Memory A Immediate (Total Units)	8.51	1.94
Logical Memory A Delayed (Total Units)	7.42	1.94
Digit Span-Forward (Total Trials)	8.08	0.70
Digit Span-Forward (Longest Sequence)	5.48	0.44
Digit Span-Backward (Total Trials)	5.08	0.69
Cat. Fluency: Animals (Total in 60 seconds)	19.10	2.72
Trail Making: A (Time in seconds)	60.58	-11.92
Trail Making: B (Time in seconds)	151.03	-31.09
WAIS-R Digit Symbol (Total Items in 90 seconds)	31.75	6.73
Boston Naming Test (Total Score)	28.10	0.88

Gender (Univariate model)

	Constant	Gender
MMSE (Total Score)	27.91	-0.63
Digit Span - Forward (Total Trials)	8.77	-0.69
Cat. Fluency: Vegetables (Total in 60 seconds)	14.32	-1.73

Trail Making: A (Time in seconds)	50.34	8.13
WAIS-R Digit Symbol (Total Items in 90 seconds)	37.16	-3.73
Boston Naming Test (Total Score)	28.31	0.68

Age, Education, Gender (Multivariate model)

	Constant	Gender	Age	Education
MMSE (Total Score)	27.32	-0.74		1.13
Logical Memory A Immediate (Total Units)	8.51			1.94
Logical Memory A Delayed (Total Units)	7.42			1.94
Digit Span-Forward (Total Trials)	8.37	-0.77		0.78
Digit Span-Forward (Longest Sequence)	5.48			0.44
Cat. Fluency: Animals (Total in 60 seconds)	19.10			2.72
Cat. Fluency: Vegetables (Total in 60 seconds)	14.32	-1.73		
Trail Making: A (Time in seconds)	-39.10	9.41	1.30	-13.03
Trail Making: B (Time in seconds)	-153.99		4.12	-32.05
WAIS-R Digit Symbol (Total Items in 90 seconds)	89.22	-4.45	-0.75	7.27
Boston Naming Test (Total Score)	27.88	0.60		0.82

Table 3

Age 80+ (Univariate model)

	Constant	Age
MMSE (Total Score)	33.40	-0.08
Digit Span - Forward (Total Trials)	14.49	-0.08
Trail Making: A (Time in seconds)	-156.66	2.68
Trail Making: B (Time in seconds)	-170.37	4.03

Education (Univariate model)

	Constant	Education
MMSE (Total Score)	26.35	0.87
Logical Memory A Immediate (Total Units)	8.17	1.98
Logical Memory A Delayed (Total Units)	6.78	1.79
Digit Span-Forward (Total Trials)	7.73	0.60
Digit Span-Forward (Longest Sequence)	5.27	0.50
Digit Span-Backward (Total Trials)	4.88	0.44
Cat. Fluency: Animals (Total in 60 seconds)	16.68	2.50
Trail Making: A (Time in seconds)	78.22	-12.16
Trail Making: B (Time in seconds)	189.42	-31.47
WAIS-R Digit Symbol (Total Items in 90 seconds)	26.79	6.06
Boston Naming Test (Total Score)	27.70	1.06

Gender (Univariate model)

	Constant	Gender
MMSE: Orientation (Total Score)	8.51	1.57
MMSE (Total Score)	7.20	1.16
Digit Span - Backward (Total Trials)	4.92	0.44

WAIS-R Digit Symbol (Total Items in 90 seconds)	28.74	2.84
Boston Naming Test (Total Score)	27.69	1.25

Age, Education, Gender (Multivariate model)

	Constant	Gender	Age	Education
MMSE (Total Score)	32.57		-0.07	0.85
Logical Memory A Immediate (Total Units)	7.65	1.34		1.81
Logical Memory A Delayed (Total Units)	6.42	0.95		1.67
Digit Span - Forward (Total Trials)	13.92		-0.07	0.58
Digit Span - Forward (Longest Sequence)	5.27			0.50
Cat. Fluency: Animals (Total in 60 seconds)	16.68			2.50
Trail Making: A (Time in seconds)	-145.54		2.62	-11.29
Trail Making: B (Time in seconds)	-140.91		3.87	-30.23
WAIS-R Digit Symbol (Total Items in 90 seconds)	26.79			6.06
Boston Naming Test (Total Score)	27.26	1.13		0.92

NOTE. Age = in years; Gender = 0 is woman; 1 is man; Education = 0 is lower, 1 is higher. MMSE: MMSE: Orientation (Total Score); MMSE (Total Score); Logical Memory A Immediate (Total Units); Logical Memory A Delayed (Total Units); Digit Span-Forward (Total Trials); Digit Span-Forward (Longest Sequence); Digit Span-Backward (Total Trials); Digit Span-Backward (Longest Sequence); Category Fluency: Animals (Total in 60 seconds); Category Fluency: Vegetables (Total in 60 seconds); Trail Making Test: A (Time in seconds); Trail Making Test: B (Time in seconds); Digit Symbol (Total Items in 90 seconds); Boston Naming Test, 30 items (Total Score).

Table 4

Main effects of ANOVA (F-values, preceded by corresponding degrees of freedom) performed on all UDS-Cz 2.0 test measures

		F-values		Significance level (p)	
	df1, df2	Age	Education	Age	Education
MMSE: Orientation (Total Score)	3, 516	19.47	3.86	***	*
MMSE (Total Score)	3, 516	23.90	24.72	***	***
Logical Memory A Immediate (Total Units)	3, 516	7.99	43.36	***	***
Logical Memory A Delayed (Total Units)	3, 516	14.83	42.68	***	***
Digit Span-Forward (Total Trials)	3, 516	11.95	21.80	***	***
Digit Span-Forward (Longest Sequence)	3, 516	9.47	24.79	***	***
Digit Span-Backward (Total Trials)	3, 516	12.63	19.69	***	***
Digit Span-Backward (Longest Sequence)	3, 516	14.23	13.92	***	***
Cat. Fluency: Animals (Total in 60 seconds)	3, 516	35.14	34.47	***	***
Cat. Fluency: Vegetables (Total in 60 seconds)	3, 511	14.19	2.61	***	
Trail Making: A (Time in seconds)	3, 516	47.73	23.44	***	***

Trail Making: B (Time in seconds)	3, 510	51.71	33.39	***	***
WAIS-R Digit Symbol (Total Items in 90 seconds)	3, 515	76.91	75.16	***	***
Boston Naming Test (Total Score)	3, 516	6.62	34.51	*	***

NOTE. df = degree of freedom; * p<.05; **p<.01; ***p<.001. Asterisk in bold = still significant after Bonferroni correction for 14 comparisons.