

Table 1. Baseline and longitudinal norms.

Age	Education	Test	n	M	SD	Percentiles					Longitudinal norms				
						2nd	8th	24th	74th	90th	n	PE	ICC	80% CI	90% CI
50-64	≤10	ADAS-I	95	2.69	1.35	6	4.49	3.33	2	1	33	-0.29	0.37	2.14	2.75
		ADAS-D	95	2.09	1.82	6	5	3	1	0	34	0.15	0.77	1.92	2.46
		BD	94	37.9	9.16	22.88	24	32	43	50.7	31	1.87	0.70	10.10	12.94
		CD	80	63.8	14.1	37.32	43.32	52.96	72	84	28	1.46	0.39	19.60	25.12
		CTT-1	95	51.5	24.3	103.9	80.85	61	38.84	33.15	34	-1.14	0.40	22.07	28.28
		CTT-2	95	101	36	189.5	141.3	115.9	77.70	66.72	34	-12.25	0.65	34.97	44.80
		DSF	94	10.1	2.57	6	7	8	12	13	33	0.25	0.63	2.48	3.17
		DSB	94	9.11	2.58	5	5.44	7	10	13	33	-0.31	0.71	2.27	2.91
		CFAB	93	16.9	1.34	13.68	15	16	18	-	33	-0.21	0.25	1.49	1.91
		RCFT	44	33.1	2.52	27.43	28.44	32	35	36	22	0.82	0.02	3.88	4.97
		LM-I	95	14.9	3.81	6.88	9.52	12	18	19.3	34	-0.64	0.62	4.74	6.07
		LM-II	95	15.6	4.98	3.88	9	12.56	19	21.6	34	-0.45	0.56	7.00	8.97
		SS	80	29.8	8.88	16	18.32	26	33.46	38.1	28	-2.36	0.22	15.39	19.72
		VR-I	79	33.6	5.32	21.68	26	30	38	40	28	0.57	0.55	8.68	11.12
VR-II	79	25.2	10.2	2.24	11	17	33	37.2	28	-3.43	0.52	13.56	17.38		
>10		ADAS-I	226	2.64	1.39	5.33	4.67	3.67	1.67	1	89	-0.06	0.55	1.74	2.23
		ADAS-D	225	1.98	1.96	7	5	3	0	-	89	-0.06	0.46	2.61	3.35
		BD	215	43.5	10.2	24	28	34	51	56.6	88	0.51	0.63	10.74	13.75
		CD	173	66.2	16.1	31.76	42.76	55	77.28	85	60	3.63	0.83	12.64	16.20
		CTT-1	210	48.5	20.4	106.7	77.39	57.13	35.06	27.91	86	-0.75	0.55	24.27	31.09
		CTT-2	219	96.9	36	179.3	152	112.7	74.07	61.06	85	-0.88	0.74	29.62	37.95
		DSF	226	10.5	2.34	6	7	9	12	14	91	0.13	0.58	2.73	3.49

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						2nd	8th	24th	74th	90th	n	PE	ICC	80% CI	90% CI
65–80	≤10	DSB	225	8.88	2.47	5	6	7	10	12	90	0.02	0.38	3.32	4.26
		CFAB	216	17.2	1.21	14	15	17	18	-	89	-0.04	0.22	1.85	2.37
		RCFT	144	33.1	3.47	22.15	29	32.16	35	36	71	0.41	0.41	3.86	4.95
		LM-I	224	15.3	4.24	6	9	12	18	20.5	89	0.25	0.48	4.97	6.37
		LM-II	225	15.5	5.24	2.96	7.92	13	19	22	89	1.11	0.62	5.54	7.10
		SS	163	30	7.9	12.24	19	24	35	39.6	60	0.11	0.64	9.89	12.68
		VR-I	173	36.3	4.98	26	28	33	40	42	60	0.3	0.34	7.53	9.65
		VR-II	172	25.5	9.78	5	10	20	32.54	36.9	58	1.24	0.52	13.25	16.98
		ADAS-I	99	3.46	1.39	6.67	5.33	4.33	2.67	1.67	45	-0.1	0.56	1.73	2.21
		ADAS-D	99	3.06	2.09	7.04	6	4	1.48	0.8	46	-0.44	0.63	2.46	3.15
65–80	≤10	BD	96	34.8	7.47	24	28	29	38	44.5	45	0.07	0.72	8.52	10.91
		CD	97	52.5	13	28.44	37.68	43	62.04	67	43	-0.09	0.50	17.28	22.14
		CTT-1	95	58.9	21.2	111.5	92.88	72.78	43.22	36.98	46	4.61	0.63	31.39	40.21
		CTT-2	97	116	40.1	199.1	169.9	133.6	89.91	78.66	45	4.28	0.52	42.80	54.84
		DSF	98	10	2.02	5.94	7.76	9	11	12.3	45	-0.09	0.23	3.31	4.24
		DSB	98	8.29	1.9	5	6	7	9.78	10	45	-0.18	0.42	3.41	4.37
		CFAB	95	16.2	1.95	11	13	15	17.56	18	44	0.41	0.27	2.42	3.11
		RCFT	44	32.5	2.94	23.36	28.72	31	35	-	29	-0.38	0.31	4.51	5.78
		LM-I	98	14	4.31	5.94	7	10.5	17.89	19.5	44	0.86	0.74	4.14	5.31
		LM-II	99	14.6	5.38	2	6.52	11	18.52	21	46	0.13	0.80	4.99	6.39

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Age	Education	Test	n	M	SD	Baseline norms						Longitudinal norms					
						2nd	8th	24th	74th	90th	n	PE	ICC	80% CI	90% CI		
		SS	95	23.5	6.3	11	16	18.56	27.56	33	43	-0.07	0.55	8.17	10.47		
		VR-I	97	31.4	6.9	18.92	22	28	37	39	43	-0.91	0.51	8.84	11.32		
		VR-II	97	21.4	10.3	0	4.36	14	28.04	33	42	-3.1	0.66	11.15	14.29		
	>10	ADAS-I	131	2.99	1.88	7.12	5.67	4.6	1.67	0.67	56	0.31	0.64	2.13	2.73		
		ADAS-D	131	2.79	2.56	9	7	4	0.8	0	56	0.42	0.85	1.86	2.38		
		BD	123	35.9	8.32	24	28	30.56	39.56	47	52	1.27	0.33	11.12	14.25		
		CD	122	56.9	14.7	31	37	49	65.54	69.9	48	1.19	0.81	11.52	14.76		
		CTT-1	129	62.1	27.3	151.1	98.04	72.22	46.23	33.82	55	-2.55	0.68	31.44	40.28		
		CTT-2	131	117	44.7	207.2	175.9	142.7	87.24	73.69	54	1.42	0.65	41.83	53.59		
		DSF	131	10	2.18	6	7	8	11	13	55	-0.36	0.49	2.98	3.82		
		DSB	130	8.58	2.18	4.58	6	7	10	11	54	-0.03	0.44	2.97	3.81		
		CFAB	128	16.9	1.62	11.62	15	16.48	18	-	56	0.32	0.37	3.17	4.06		
		RCFT	49	31.8	4.98	19.42	27.84	31	34	35.2	29	0.38	0.34	7.47	9.57		
		LM-I	129	15.3	4.16	7	8	12.5	18	20.1	55	-0.72	0.63	4.86	6.23		
		LM-II	128	15.44	4.86	5	8.16	13	18	22	56	-1.33	0.65	6.00	7.68		
		SS	120	24	6.82	10	13	20	29	33	47	0.77	0.79	6.35	8.13		
		VR-I	123	33.2	6.34	17.88	24	30	37	40	50	-0.4	0.57	10.21	13.08		
		VR-II	123	21.6	9.86	0	8.52	16	29.28	33	50	-0.16	0.29	15.81	20.26		

ADAS-I/D: ADAS-Cog Word Recall task (Immediate/Delayed); BD: Block Design; CD: Coding; CFAB: Chinese Frontal Assessment Battery; CI: confidence interval; CTT-1/2: Colour Trails Test (Part 1 & 2); DSF/DSB: Digit Span Forwards/Backwards; ICC: intraclass correlation; LM-I/II: adapted version of Logical Memory (Immediate/Delayed); PE: average practice effect; RCFT: Rey Complex Figure Test (Copy); RCI: reliable change index; SS: Symbol Search; VR-I/II: Visual Reproduction (Immediate/Delayed)