



Correction to: The Montreal Cognitive Assessment (MoCA): updated norms and psychometric insights into adaptive testing from healthy individuals in Northern Italy

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Correction to:

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In the original version of this article, some typos regarding the adjustment coefficients for raw MoCA-Visuospatial (MoCA-VS) and MoCA-Attention (MoCA-A) scores (Table 3) were present and have now been amended (amended MoCA-VS cell: age=35, education=8; amended MoCA-A cells: age=55, education=8; age=35,

education=13). Moreover, some imprecisions regarding the discussion of the discrepancies between the present and previous normative studies have been amended (page 379, Discussion: "More specifically, ESs allotments here reported proved to be stricter than those of Santangelo et al.'s [1] with regard to MoCA-total, -VS, -EF and -A, whereas less strict with regard to MoCA-O and Conti et al.'s [2] total"). We are thankful to the Researcher that has drawn our attention on such elements.

The updated Table 3 is below:

The original article can be found online at <https://doi.org/10.1007/s40520-021-01943-7>.

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Table 3 Adjustment grids according to age and education for MoCA total and subtest raw scores

Sub-test	Education	Age													
		35	40	45	50	55	60	65	70	75	80	85	90	95	
Total	5	0.35	0.52	0.73	1	1.34	1.73	2.2	2.75	3.38	4.1	4.92	5.84	6.86	
	8	- 1.22	- 1.05	- 0.83	- 0.56	- 0.23	0.17	0.64	1.18	1.81	2.53	3.35	4.27	5.3	
	11	- 2.28	- 2.11	- 1.89	- 1.62	- 1.29	- 0.89	- 0.43	0.12	0.75	1.47	2.29	3.21	4.24	
	13	- 2.84	- 2.67	- 2.45	- 2.18	- 1.85	- 1.45	- 0.98	- 0.43	0.2	0.92	1.73	2.65	3.68	
	16	- 3.53	- 3.36	- 3.14	- 2.87	- 2.54	- 2.14	- 1.67	- 1.13	- 0.5	0.23	1.04	1.96	2.99	
	18	- 3.92	- 3.75	- 3.53	- 3.26	- 2.93	- 2.53	- 2.07	- 1.52	- 0.89	- 0.17	0.65	1.57	2.6	
	21	- 4.43	- 4.26	- 4.05	- 3.78	- 3.45	- 3.05	- 2.58	- 2.03	- 1.4	- 0.68	0.14	1.06	2.08	
VS	5	-	0.06	0.13	0.2	0.28	0.37	0.47	0.57	0.69	0.81	0.93	1.07	1.21	
	8	- 0.3	- 0.24	- 0.18	- 0.1	- 0.02	0.07	0.17	0.27	0.38	0.5	0.63	0.77	0.91	
	11	- 0.51	- 0.45	- 0.38	- 0.31	- 0.23	- 0.14	- 0.04	0.06	0.18	0.3	0.42	0.56	0.7	
	13	- 0.61	- 0.55	- 0.49	- 0.42	- 0.33	- 0.24	- 0.15	- 0.04	0.07	0.19	0.32	0.45	0.6	
	16	- 0.75	- 0.69	- 0.62	- 0.55	- 0.47	- 0.38	- 0.28	- 0.18	- 0.07	0.05	0.18	0.32	0.46	
	18	- 0.82	- 0.77	- 0.7	- 0.63	- 0.54	- 0.46	- 0.36	- 0.25	- 0.14	- 0.02	0.11	0.24	0.39	
	21	- 0.92	- 0.86	- 0.8	- 0.73	- 0.64	- 0.55	- 0.46	- 0.35	- 0.24	- 0.12	0.01	0.14	0.29	
EF	5	0.22	0.26	0.31	0.38	0.46	0.56	0.68	0.82	0.97	1.15	1.36	1.59	1.84	
	8	- 0.25	- 0.21	- 0.16	- 0.09	- 0.01	0.09	0.21	0.35	0.51	0.69	0.89	1.12	1.38	
	11	- 0.57	- 0.53	- 0.47	- 0.41	- 0.32	- 0.22	- 0.11	0.03	0.19	0.37	0.57	0.8	1.06	
	13	- 0.74	- 0.69	- 0.64	- 0.57	- 0.49	- 0.39	- 0.27	- 0.14	0.02	0.2	0.41	0.64	0.89	
	16	- 0.94	- 0.9	- 0.85	- 0.78	- 0.7	- 0.6	- 0.48	- 0.34	- 0.19	- 0.01	0.2	0.43	0.69	
	18	- 1.06	- 1.02	- 0.96	- 0.9	- 0.81	- 0.71	- 0.6	- 0.46	- 0.3	- 0.12	0.08	0.31	0.57	
	21	- 1.21	- 1.17	- 1.12	- 1.05	- 0.97	- 0.87	- 0.75	- 0.61	- 0.46	- 0.28	- 0.07	0.16	0.41	
L	5	0.12	0.14	0.16	0.19	0.22	0.26	0.31	0.37	0.44	0.51	0.6	0.69	0.8	
	8	- 0.15	- 0.14	- 0.11	- 0.09	- 0.05	- 0.01	0.04	0.1	0.16	0.24	0.32	0.42	0.53	
	11	- 0.28	- 0.26	- 0.24	- 0.21	- 0.18	- 0.13	- 0.08	- 0.03	0.04	0.11	0.2	0.3	0.40	
	13	- 0.33	- 0.31	- 0.29	- 0.26	- 0.23	- 0.18	- 0.14	- 0.08	- 0.01	0.06	0.15	0.24	0.35	
	16	- 0.38	- 0.36	- 0.34	- 0.31	- 0.28	- 0.24	- 0.19	- 0.13	- 0.06	0.01	0.1	0.19	0.3	
	18	- 0.41	- 0.39	- 0.37	- 0.34	- 0.3	- 0.26	- 0.21	- 0.16	- 0.09	- 0.01	0.07	0.17	0.27	
	21	- 0.44	- 0.42	- 0.4	- 0.37	- 0.33	- 0.29	- 0.24	- 0.19	- 0.12	- 0.04	0.04	0.14	0.25	
A	5	0.09	0.11	0.14	0.17	0.21	0.25	0.31	0.37	0.44	0.52	0.61	0.72	0.84	
	8	- 0.12	- 0.1	- 0.07	- 0.04	-	0.04	0.09	0.16	0.23	0.31	0.4	0.51	0.63	
	11	- 0.26	- 0.24	- 0.22	- 0.18	- 0.15	- 0.1	- 0.05	0.01	0.09	0.17	0.26	0.37	0.48	
	13	- 0.33	- 0.31	- 0.29	- 0.26	- 0.22	- 0.18	- 0.12	- 0.06	0.01	0.09	0.19	0.29	0.41	
	16	- 0.43	- 0.41	- 0.38	- 0.35	- 0.31	- 0.27	- 0.22	- 0.15	- 0.08	-	0.09	0.2	0.31	
	18	- 0.48	- 0.46	- 0.44	- 0.41	- 0.37	- 0.32	- 0.27	- 0.21	- 0.13	- 0.05	0.04	0.14	0.26	
	21	- 0.55	- 0.53	- 0.51	- 0.47	- 0.44	- 0.39	- 0.34	- 0.28	- 0.2	- 0.12	0.03	0.08	0.19	
M	5	- 0.56	- 0.43	- 0.29	- 0.13	0.05	0.24	0.45	0.68	0.92	1.18	1.45	1.75	2.06	
	8	- 0.8	- 0.68	- 0.53	- 0.37	- 0.2	- 0.01	0.2	0.43	0.67	0.93	1.21	1.5	1.81	
	11	- 1	- 0.88	- 0.73	- 0.58	- 0.4	- 0.21	-	0.23	0.47	0.73	1.01	1.3	1.61	
	13	- 1.12	- 1	- 0.85	- 0.69	- 0.52	- 0.33	- 0.12	0.11	0.35	0.61	0.89	1.18	1.49	
	16	- 1.29	- 1.16	- 1.02	- 0.86	- 0.68	- 0.49	- 0.28	- 0.05	0.19	0.45	0.72	1.02	1.33	
	18	- 1.39	- 1.26	- 1.12	- 0.96	- 0.78	- 0.59	- 0.38	- 0.15	0.09	0.35	0.62	0.92	1.23	
	21	- 1.53	- 1.4	- 1.26	- 1.1	- 0.92	- 0.73	- 0.52	- 0.29	- 0.05	0.21	0.48	0.78	1.09	
O		- 0.13	- 0.11	- 0.09	- 0.08	- 0.06	- 0.03	- 0.01	0.02	0.06	0.1	0.15	0.23	0.37	

Total: adjusted score = raw score + 0.000008*(age^3) - 297,697.184801] - 3.331407*[ln(education) - 2.325648]; VS: adjusted score = raw score + 0.000155*(age^2) - 4168.682243] - 0.645622*[ln(education) - 2.322051]; EF: adjusted score = raw score + 0.000002*(age^3) - 290,195.728972] - 0.996668*[ln(education) - 2.322051]; L: adjusted score = raw score + 0.00000083757*(age^3) - 290,195.728972] + 3.645727*[(1/education) - 0.110560]; A: adjusted score = raw score + 0.00000091089*(age^3) - 290,195.728972] - 0.448568*[ln(education) - 2.322051]; M: adjusted score = raw score + 0.000335*(age^2) - 4168.682243] - 0.413262*[sqrt(education) - 3.276794]; O: adjusted score = raw score - 0.191626*[ln(100 - age) - 3.515369]. Significant decimals of adjustment factors are displayed. Adjustment factors have been extracted from the aforementioned formula and do not always reflect empirical co-occurrences

MoCA Montreal Cognitive Assessment, VS Visuo-spatial, EF Executive Functioning, L Language, A Attention, M Memory, O Orientation

The original article has been updated.

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