

On-line Table: MRI intracranial volumes and measures of cognitive function^a

Measure MRI Volume	Estimate	SE	P Value	Effect Size ^b	Absolute	%
3MSE						
GM, unadjusted	6.06	1.26		1.5×10^{-6}	-13.06	-15.4
GM, adjusted	4.87	1.60		2.3×10^{-3}	-10.66	-12.6
WM, unadjusted	0.08	1.58		.96	-0.16	-0.2
WM, adjusted	-2.19	1.64		.18	4.47	5.3
WM lesion, unadjusted	-7.9×10^{-3}	2.5×10^{-3}		2.0×10^{-3}	-8.87	-10.5
WM lesion, adjusted	-4.3×10^{-3}	3.0×10^{-3}		.15	-5.01	-5.9
MoCA						
GM, unadjusted	3.45	0.78		9.6×10^{-6}	-1.80	-9.1
GM, adjusted	2.30	1.01		2.2×10^{-2}	-1.22	-6.2
WM, unadjusted	-0.05	0.97		.96	0.02	0.1
WM, adjusted	-0.81	1.01		.43	0.38	1.9
WM lesion, unadjusted	-2.7×10^{-3}	1.5×10^{-3}		.06	-0.74	-3.8
WM lesion, adjusted	-4.2×10^{-4}	1.8×10^{-3}		.82	-0.12	-0.6
RAVLT						
GM, unadjusted	2.79	0.49		1.3×10^{-8}	-2.83	-7.4
GM, adjusted	0.98	0.59		.10	-1.02	-2.7
WM, unadjusted	-0.33	0.60		.58	0.30	0.8
WM, adjusted	-0.57	0.57		.32	0.52	1.4
WM lesion, unadjusted	-2.1×10^{-3}	9.0×10^{-4}		2.9×10^{-2}	-1.08	-2.9
WM lesion, adjusted	5.3×10^{-4}	1.0×10^{-3}		.61	0.28	0.8
DSC						
GM, unadjusted	4.93	0.73		1.4×10^{-11}	-6.16	-12.8
GM, adjusted	2.05	0.84		1.5×10^{-2}	-2.66	-5.5
WM, unadjusted	2.58	0.88		3.5×10^{-3}	-2.85	-5.9
WM, adjusted	1.27	0.82		.012	-1.42	-3.0
WM lesion, unadjusted	-8.8×10^{-3}	1.3×10^{-3}		6.7×10^{-12}	-5.64	-11.7
WM lesion, adjusted	-5.0×10^{-3}	1.5×10^{-3}		6.7×10^{-4}	-3.31	-6.9
VFA						
GM, unadjusted	1.87	0.63		3.0×10^{-3}	-0.79	-5.1
GM, adjusted	0.69	0.90		.44	-0.30	-1.9
WM, unadjusted	0.69	0.75		.36	-0.25	-1.6
WM, adjusted	-0.18	0.88		.84	0.07	0.4
WM lesion, unadjusted	-3.0×10^{-3}	1.2×10^{-3}		1.5×10^{-2}	-0.66	-4.2
WM lesion, adjusted	-1.8×10^{-3}	1.7×10^{-3}		.29	-0.39	-2.5
Stroop errors						
GM, unadjusted	-10.62	2.98		3.7×10^{-4}	1.16	34.2
GM, adjusted	-4.09	4.32		.34	0.41	12.0
WM, unadjusted	2.53	3.96		.52	-0.20	-5.8
WM, adjusted	-0.54	4.23		.90	0.04	1.3
WM lesion, unadjusted	1.1×10^{-2}	8.2×10^{-3}		.17	0.58	17.1
WM lesion, adjusted	1.4×10^{-3}	9.4×10^{-3}		.88	0.07	2.1
Stroop interference						
GM, unadjusted	-4.45	0.83		6.9×10^{-8}	4.15	13.1
GM, adjusted	-2.36	1.12		3.5×10^{-2}	2.14	6.8
WM, unadjusted	-2.28	1.07		3.3×10^{-2}	1.75	5.5
WM, adjusted	-1.28	1.13		.26	0.97	3.1
WM lesion, unadjusted	8.1×10^{-3}	1.6×10^{-3}		5.5×10^{-7}	3.85	12.2
WM lesion, adjusted	6.1×10^{-3}	2.2×10^{-3}		4.6×10^{-3}	2.85	9.0

Note:—SE indicates standard error; 3MSE, modified MMSE; RAVLT, Rey Auditory Verbal Learning Test.

^a Adjustment reflects age, sex, body mass index, HbA1c, and level of education.

^b “Effect Size” is the absolute and percentage difference from the mean cognitive score reported in Table 3 computed for each 1 SD change in the MRI measure.