Appendix 1. List of GM ROI and Total ICV Regression Analysis

Region	Regression Analysis[1]			
Cortical Regions[2]	**Group ID, multi = 1, mono = 0**		**Total ICV**	
	β₁	**p-value**	**β₂**	**p-value**
rh_G_temp_sup-G_T_transv	-0.05	0.55	0.02	0.65
lh_G_temp_sup-G_T_transv	-0.18	0.04*	-0.01	0.74
rh_G_temporal_middle	-0.07	0.18	-0.02	0.37
lh_G_temporal_middle	-0.06	0.21	0.03	0.22
rh_S_temporal_sup	-0.06	0.03*	-0.02	0.19
lh_S_temporal_sup	-0.001	0.99	-0.01	0.49
rh_G_precuneus	-0.058	0.09	-0.2	0.35
lh_G_precuneus	-0.11	0.003**	0.02	0.39
rh_G_front_inf-Opercular	-0.09	0.13	0.00002	0.99
lh_G_front_inf-Opercular	-0.06	0.394	0.01	0.8
rh_G_pariet_inf-Angular	-0.2	0.003**	-0.01	0.67
lh_G_pariet_inf-Angular	-0.08	0.27	-0.004	0.90
-0.17894 rh_S_circular_insula_ant	-0.06	0.302	-0.06	0.22
lh_S_circular_insula_ant	-0.15	0.01*	-0.004	0.89
rh_G_and_S_cingul-Ant	0.08	0.05*	-.0.021	0.32
lh_G_and_S_cingul-Ant	-0.01	0.73	-0.01	0.57
Subcortical Regions ROIs				
R. Caudate	125.34	0.37	328.75	0.0005***
L. Caudate	36.55	0.85	270.08	0.008**
R. Thalamus	8.829	0.97	379.27	0.01*
L. Thalamus	-240.8	0.40	465.8	0.003**
R. Putamen	-316.57	0.05*	215.33	0.02*
L. Putamen	-251.62	0.144	266.89	0.004**

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[1] Assesing whether total intracranial volume (tICV) is a predictor of ROI gray matter (GM) changes; $y= \beta_0 + \beta_1(\text{group ID}) + \beta_2(\text{tICV})$, where the group ID is coded as multilinguals=1, monolinguals=0.

[2] Cortical Regions as named in the *Destrieux Atlas* (Fischl, Van Der Kouwe, et al., 2004).