

Full model analyses for thickness:

$$y = \alpha + b_1\text{ADHD} + b_2\text{Sex} + b_3\text{Age} + b_4\text{ Handedness} + b_5\text{Race} + b_6\text{Education} + b_7\text{Puberty} + b_8\text{IQ} + \gamma_i(\text{MRI manufacturer}) + \varepsilon$$

Full model analyses for area and volume:

$$y = \alpha + b_1\text{ADHD} + b_2\text{Sex} + b_3\text{Age} + b_4\text{ Handedness} + b_5\text{Race} + b_6\text{Education} + b_7\text{Puberty} + b_8\text{IQ} + b_9\text{ETIV} (\text{Estimated Total Intracranial Volume}) + \gamma_i(\text{MRI manufacturer}) + \varepsilon$$

Table S1: Full model results for gray matter neuroimaging measures between the control and ADHD groups.

Anatomical Location	Measure	TDC Mean \pm SD	ADHD Mean \pm SD	F-value	p-value
L. Cuneus	Surface Area	1676.39 \pm 218.33	1633.97 \pm 229.09	4.00	0.046
R. Middle Temporal	Surface Area	3997.17 \pm 502.91	4011.51 \pm 510.05	2.37	0.124

Means were compared using independent sample t-tests. SD: Standard Deviation. ADHD: Attention deficits/hyperactivity disorder group; TDC: Typically Developed Children.

Table S2: Full model results for gray matter neuroimaging measures between familial and non-familial subgroups of ADHD.

Anatomical Location	Measure	ADHD-NF Mean \pm SD	ADHD-F Mean \pm SD	F-value	p-value
R. Pars Orbitalis	Cortical Thickness	3.00 \pm 0.17	2.95 \pm 0.15	3.28	0.071
L. Inferior Temporal	Surface Area	3711.17 \pm 498.36	3905.69 \pm 579.72	7.58	0.006
L. Middle Temporal	Surface Area	3579.24 \pm 446.97	3730.73 \pm 540.07	5.32	0.022
R. Thalamus	Volume	7325.65 \pm 649.59	7526.62 \pm 770.62	3.027	0.083

Means were compared using independent sample t-tests. SD: Standard Deviation. ADHD-F: Familial ADHD. ADHD-NF: Non-familial ADHD.