

**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.