

Supplementary Online Content

Long X, Lebel C. Evaluation of brain alterations and behavior in children with low levels of prenatal alcohol exposure. *JAMA Netw Open*. 2022;5(4):e225972.
doi:10.1001/jamanetworkopen.2022.5972

eTable 1. Group Comparisons on the CBCL Measurements

eTable 2. Brain Areas With Significant FA Differences Between Groups After FDR Correction When Controlling For Total Intracranial Volume

eFigure. Brain Areas With Significant FA Differences Between Groups After FDR Correction When Controlling For Total Intracranial Volume

This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Group Comparisons on the CBCL Measurements

The CBCL scores are t-scores. Bold values indicate the results at $p < 0.05$, uncorrected.

CBCL items	PAE	Matched UC	Mean differences with 95% CI	p-value	Cohen's d	PAE% (≥ 65)	Matched UC% (≥ 65)
Internalizing	49.02±9.97	48.4±10.35	0.62 [-1.81 3.06]	0.62	0.06	6.67	7.41
Externalizing	45.19±8.75	42.81±8.63	2.39 [0.30 4.47]	0.03	0.27	1.48	0.00
Anxiety depression	53.40±6.22	53.56±5.74	-0.16 [-1.59 1.28]	0.83	0.03	5.93	7.41
Withdraw depression	53.11±5.21	53.03±5.65	0.08 [-1.22 1.38]	0.90	0.01	6.67	5.93
Somatic	55.47±6.17	54.98±5.64	0.49 [-0.93 1.91]	0.50	0.08	8.15	6.67
Social	51.71±3.61	52.53±4.56	-0.82 [-1.81 0.16]	0.10	0.20	2.96	2.96
Thought	53.80±5.43	53.27±5.30	0.53 [-0.76 1.81]	0.42	0.10	6.67	6.67
Attention	53.47±5.41	54.11±6.52	-0.64 [-2.08 0.79]	0.38	0.11	5.19	9.63
Rule Break	51.88±3.60	51.36±3.24	0.53 [-0.30 1.35]	0.21	0.15	2.22	1.48
Aggressive	52.10±3.99	51.58±3.30	0.53 [-0.35 1.40]	0.24	0.14	1.48	0.74
Total problem	45.77±9.40	44.64±10.46	1.13 [-1.26 3.51]	0.35	0.11	3.70	3.70

eTable 2. Brain Areas With Significant FA Differences Between Groups After FDR Correction When Controlling For Total Intracranial Volume

Bold rows indicate the results that were also significant when total intracranial volume was not controlled (i.e., results in main manuscript).

Hemisphere	Brain region (white matter)	PAE FA	Control FA	Mean differences with 95% CI	p-value	Cohen's d
Left	Paracentral lobule	0.25±0.04	0.27±0.03	-0.01 [-0.02 -0.004]	0.004	0.33
Left	Middle cingulate area	0.37±0.05	0.39±0.04	-0.02 [-0.03 -0.005]	0.006	0.34
Left	Middle frontal area	0.23±0.04	0.24±0.03	-0.01 [-0.02 -0.004]	0.003	0.33
Left	Superior frontal	0.27±0.03	0.28±0.03	-0.01 [-0.02 -0.004]	0.004	0.33
Left	Middle occipital area	0.19±0.03	0.21±0.03	-0.01 [-0.02 -0.004]	0.001	0.44
Left	Angular area	0.22±0.03	0.23±0.03	-0.01 [-0.02 -0.005]	0.001	0.43
Left	Supramarginal area	0.23±0.03	0.24±0.03	-0.01 [-0.02 -0.004]	0.003	0.40
Left	Postcentral gyrus area	0.22±0.03	0.23±0.03	-0.01 [-0.02 -0.004]	0.003	0.33
Left	Precentral area	0.26±0.04	0.27±0.04	-0.01 [-0.02 -0.01]	0.002	0.36
Left	Planum temporale	0.26±0.04	0.28±0.03	-0.02 [-0.03 -0.01]	<0.001	0.43
Left	Anterior lateral sulcus area	0.30±0.07	0.32±0.05	-0.02 [-0.03 -0.01]	0.005	0.37
Left	Central sulcus area	0.38±0.05	0.39±0.04	-0.02 [-0.03 -0.01]	0.002	0.37
Left	Inferior occipital area	0.30±0.07	0.32±0.05	-0.03 [-0.04 -0.01]	<0.001	0.46
Left	Inferior parietal area	0.31±0.07	0.33±0.06	-0.03 [-0.04 -0.01]	0.001	0.39
Left	Superior occipital area	0.37±0.05	0.39±0.04	-0.02 [-0.03 -0.01]	0.003	0.34
Left	Postcentral area	0.35±0.05	0.36±0.04	-0.02 [-0.03 -0.01]	0.001	0.39
Left	Superior precentral area	0.40±0.05	0.41±0.04	-0.01 [-0.03 -0.005]	0.004	0.33

Right	Superior parietal lobule	0.23±0.04	0.24±0.03	-0.01 [-0.02 -0.01]	0.001	0.36
Right	Middle occipital area	0.30±0.04	0.31±0.04	-0.01 [-0.02 -0.01]	0.001	0.39
Left	Putamen (grey matter)	0.22±0.03	0.21±0.02	0.01 [0.005 0.02]	0.001	0.42

eFigure. Brain Areas With Significant FA Differences Between Groups After FDR Correction When Controlling For Total Intracranial Volume

White matter areas with lower FA in the PAE group compared to unexposed controls are shown in blue.

PAE vs. Control

