

## Disrupted signal variability of spontaneous neural activity in children with attention-deficit/hyperactivity disorder: supplement

ZHENYAN HU,<sup>1,4</sup> LU LIU,<sup>2,3,4</sup>  MENGJING WANG,<sup>1</sup> GAODING JIA,<sup>1</sup> HAIMEI LI,<sup>2,3</sup> FEIFEI SI,<sup>2,3</sup> MIN DONG,<sup>2,3</sup> QIUJIN QIAN,<sup>2,3,5</sup>  AND HAIJING NIU<sup>1,6</sup> 

<sup>1</sup>State Key Laboratory of Cognitive Neuroscience and Learning & IDG/McGovern Institute for Brain Research, Beijing Normal University, Beijing 100875, China

<sup>2</sup>Peking University Sixth Hospital/Institute of Mental Health, Beijing 100191, China

<sup>3</sup>NHC Key Laboratory of Mental Health (Peking University), National Clinical Research Center for Mental Disorders (Peking University Sixth Hospital), Beijing 100191, China

<sup>4</sup>Zhenyan Hu and Lu Liu contributed equally to this research

<sup>5</sup>qianqiujin@bjmu.edu.cn

<sup>6</sup>niuhjing@bnu.edu.cn

---

This supplement published with The Optical Society on 29 April 2021 by The Authors under the terms of the [Creative Commons Attribution 4.0 License](https://creativecommons.org/licenses/by/4.0/) in the format provided by the authors and unedited. Further distribution of this work must maintain attribution to the author(s) and the published article's title, journal citation, and DOI.

Supplement DOI: <https://doi.org/10.6084/m9.figshare.14465538>

Parent Article DOI: <https://doi.org/10.1364/BOE.418921>

**Table S1 Statistical values of group differences in measurement channels between ADHD and healthy controls**

Channel Order	Network	<i>P</i> value	<i>P</i> corrected value	<i>T</i> value
5	Default	0.004	0.022	-3.008
19	Default	0.015	0.049	-2.484
59	Default	0.007	0.035	-2.767
64	Default	0.002	0.016	-3.231
20	Default	0.003	0.019	-3.086
22	Default	0.006	0.030	2.848
24	Default	0.009	0.038	2.694
3	Frontoparietal	0.011	0.044	-2.606
75	Frontoparietal	0.002	0.017	-3.155
74	Frontoparietal	0.001	0.018	-3.334
52	Frontoparietal	0.005	0.027	-2.907
49	Ventral Attention	0.001	0.010	-3.645
50	Ventral Attention	0.010	0.040	-2.659
40	Ventral Attention	0.015	0.050	-2.488
41	Somatomotor	0.001	0.010	-3.567
42	Somatomotor	0.002	0.016	-3.209
71	Dorsal Attention	0.011	0.042	-2.603
76	Dorsal Attention	0.002	0.018	-3.297
72	Dorsal Attention	0.014	0.050	-2.506
70	Dorsal Attention	0.008	0.039	-2.710
69	Visual	0.012	0.044	-2.572
77	Visual	0.000	0.009	-4.077
79	Visual	0.002	0.018	-3.236
80	Visual	0.000	0.011	-3.691
78	Visual	0.000	0.011	-3.825

The *P* values was obtained using multiple linear regression model.

**Table S2 Statistical values of group differences in 6 functional networks in ADHD subtypes**

Network	<i>P</i> value	<i>P</i> corrected value	<i>T</i> value	ADHD subtypes
Whole Brain	0.008		-2.743	I
Default	0.020	0.024	-2.395	I

Frontoparietal	0.015	0.022	-2.518	I
Ventral Attention	0.006	0.020	-2.824	I
Somatomotor	0.670	0.067	-0.428	I
Dorsal Attention	0.011	0.023	-2.611	I
Visual	0.002	0.014	-3.178	I
Whole Brain	0.013		-2.577	C
Default	0.092	0.092	-1.715	C
Frontoparietal	0.026	0.053	-2.282	C
Ventral Attention	0.075	0.090	-1.816	C
Somatomotor	0.055	0.082	-1.962	C
Dorsal Attention	0.009	0.028	-2.690	C
Visual	0.001	0.008	-3.401	C

---

The *P* value was obtained using multiple linear regression model.