

Research Report

Alerting deficits in children with attention deficit/hyperactivity disorder: Event-related fMRI evidence

M. M. ... M. M. ... M. M. ... M. M. ... M. M. ... M. M. ... M. M. ... M. M. ... M. M. ... M. M. ...

1. 2. 3. 4. 5. 6. 7. 8. 9. 10.

2. Results

2.1.

1. $\bar{y} = 13.4$, $s_y = 1.7$, $\bar{x} = 13.2$, $s_x = 1.2$, $(23) < 1$.
G. $\bar{y} = 102.7$, $s_y = 9.0$, $\bar{x} = 112.7$, $s_x = 13.8$, $(23) = -2.32$, $\alpha = 0.04$.
C. $\bar{y} = 102.7$, $s_y = 9.0$, $\bar{x} = 112.7$, $s_x = 13.8$, $(23) = -2.32$, $\alpha = 0.04$.

2.2.

(31) $\bar{y} = 102.7$, $s_y = 9.0$, $\bar{x} = 112.7$, $s_x = 13.8$, $(23) = -2.32$, $\alpha = 0.04$.



Fig. 2 – Brain regions showing decreased activation in the ADHD group compared with the controls for A) intrinsic alertness, B) phasic alertness and C) alerting effect (thresholded at $p < 0.001$, uncorrected, extend threshold 10 voxels). a, right precuneus; b, right middle frontal gyrus; c, left inferior parietal lobe; d, right middle frontal gyrus; e, right middle frontal gyrus; f, left middle frontal gyrus; g, left superior frontal gyrus; h, right postcentral gyrus; i, right supplementary motor area; j, left putamen

(Barkley et al., 2003). C

Figure 2 shows brain regions with decreased activation in the ADHD group compared to controls across three alertness conditions: A) intrinsic alertness, B) phasic alertness, and C) alerting effect. The regions are labeled a through j, corresponding to the caption: a, right precuneus; b, right middle frontal gyrus; c, left inferior parietal lobe; d, right middle frontal gyrus; e, right middle frontal gyrus; f, left middle frontal gyrus; g, left superior frontal gyrus; h, right postcentral gyrus; i, right supplementary motor area; j, left putamen. The figure displays a series of brain slices with colored overlays representing the areas of decreased activation.

... (...) ...
...) ...
... (2001, 2004), ... (2004)
...)
... (2000).
... (2001) ... (2005) ... C₁

100
200 500
200
52
26
8.5
C

, 1998. ...
C ... 2 ... Y, 39-55. G ...
J, Z, G ...
2005. ...
(). J. C ... 46,
94-111.
G, J, J, J, J,
J, 1999.

C. J., Z., K., G., 2004. C
445-460.
J., 1988. C
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C., G., C.,
.C., 2000.
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