Differences in connectivity patterns between child and adolescent attention deficit hyperactivity disorder patients.

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Abstract

Attention deficit hyperactivity disorder (ADHD) is a common psychological disorder for a broad range of ages. Child and adolescent ADHD patients show different behaviour patterns. The differences between child and adolescent ADHD patients have not been fully explored in terms of brain connectivity. In this study, we explored the differences in connectivity patterns between child and adolescent ADHD patients using resting-state functional magnetic resonance imaging (rs-fMRI) of 52 ADHD patients (26 children and 26 adolescents). Default mode network and frontoparietal network showed significant group-wise connectivity pattern differences between child and adolescent ADHD patients. The results of our study might suggest potential imaging biomarkers for further ADHD-related studies.