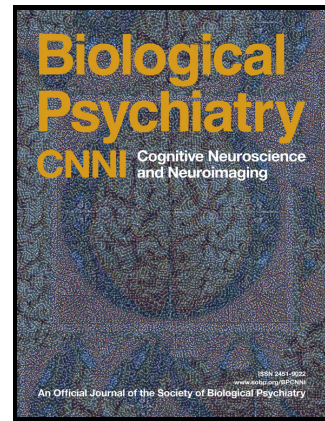


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Hyperactivation in Cognitive Control and Visual Attention Brain Regions During Emotional Interference in Adolescent Depression

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**Abstract**

**Background:** Individuals with Major Depressive Disorder (MDD) are characterized by biases in attention to negative emotional material. While there is evidence that anomalous functioning in frontocingulate regions may underlie these biases, we know little about the neural correlates of negative emotional biases in depressed adolescents. **Methods:** Eighteen adolescents diagnosed with MDD and 21 matched healthy control (CTL) adolescents underwent fMRI while performing an emotional distractor task. On each trial participants were presented with task-relevant house pairs and task-irrelevant face pairs. Participants indicated whether the house pairs were identical while ignoring the face pairs, which were either fearful, sad, or neutral. **Results:** Despite equivalent behavioral performance (response time and accuracy) between groups, adolescents with MDD exhibited greater activation in frontocingulate regions, including

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