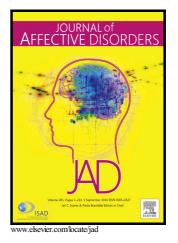
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ACCEPTED MANUSCRIPT

Differential Brain Network Activity Across Mood States in Bipolar Disorder

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Abstract

Background

This study aimed to identify how the activity of large-scale brain networks differs between mood states in bipolar disorder. The authors measured spontaneous brain activity in subjects with bipolar disorder in mania and euthymia and compared these states to a healthy comparison population.

Methods

23 subjects with bipolar disorder type I in a manic episode, 24 euthymic bipolar I subjects, and 23 matched healthy comparison (HC) subjects underwent resting state fMRI scans. Using an existing parcellation of the whole brain, we measured functional connectivity between brain regions and identified significant differences between groups.

Results

In unbiased whole-brain analyses, functional connectivity between parietal, occipital, and frontal nodes within the dorsal attention network (DAN) were significantly greater in mania than euthymia or HC subjects. In the default mode network (DMN), connectivity between dorsal frontal nodes and the rest of the DMN differentiated both mood state and diagnosis.

Limitations

The bipolar groups were separate cohorts rather than subjects imaged longitudinally across mood states.

Conclusions

Bipolar mood states are associated with highly significant alterations in connectivity in two large-scale brain

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