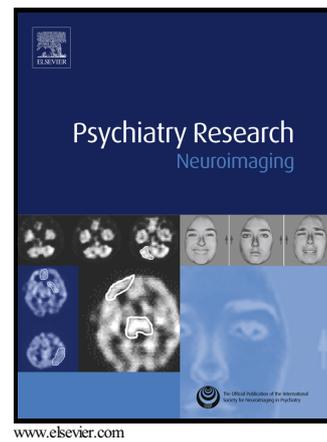


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Reduced neural differentiation between self-referential cognitive and emotional processes in women with borderline personality disorder

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Abstract

Borderline personality disorder (BPD) is associated with disturbed emotion regulation. Psychotherapeutic interventions using mindfulness elements have shown effectiveness in reducing clinical symptoms, yet little is known about their underlying neurobiology. In this functional magnetic resonance imaging (fMRI) study, 19 female BPD patients and 19 healthy controls were compared during mindful introspection, cognitive self-reflection and a neutral condition. The activation pattern in the right dorsomedial prefrontal cortex (DMPFC) in BPD patients was different from that in healthy subject when directing attention onto their emotions and bodily feelings in contrast to cognitively thinking about themselves. Mindful introspection compared with the neutral condition was associated with higher activations in bilateral motor/pre-motor regions, left inferior frontal gyrus (IFG), and left posterior cingulate cortex (PCC), while cognitive self-reflection activated the right motor and somatosensory cortex, extending into the right supramarginal gyrus (SMG) and superior temporal gyrus (STG) in BPD patients compared with the controls. Results indicate that self-referential cognitive and emotional processes are not clearly differentiated in BPD patients at the neurobiological level. In particular, altered neural mechanism underlying self-referential

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