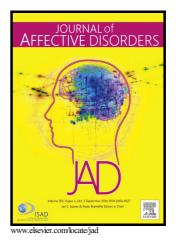
### Author's Accepted Manuscript

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# Altered brain structure in women with premenstrual syndrome

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#### Abstract

#### Background:

Functional brain abnormalities have been noted in premenstrual syndrome

(PMS). However, the brain structural alterations related to PMS remain unclear.

This study aimed to identify possible abnormalities in gray matter (GM)

volumes and structural covariance patterns among PMS patients.

#### Methods:

Structural magnetic resonance imaging data were obtained from 20 PMS patients and 20 healthy controls. Voxel-based morphometry (VBM) analysis

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