

Author's Accepted Manuscript

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PII: S0165-0327(16)32419-3
DOI: <https://doi.org/10.1016/j.jad.2017.12.097>
Reference: JAD9505

To appear in: *Journal of Affective Disorders*

Received date: 7 April 2017
Revised date: 29 November 2017
Accepted date: 31 December 2017

Cite this article as: Camilla Borgsted, Brice Ozenne, Brenda Mc Mahon, Martin K. Madsen, Liv V. Hjordt, Ida Hageman, William F.C. Baaré, Gitte M. Knudsen and Patrick M. Fisher, Amygdala response to emotional faces in seasonal affective disorder, *Journal of Affective Disorders*, <https://doi.org/10.1016/j.jad.2017.12.097>

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Amygdala response to emotional faces in seasonal affective disorder

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Abstract

Background

Seasonal affective disorder (SAD) is characterized by seasonally recurring depression. Heightened amygdala activation to aversive stimuli is associated with major depressive disorder but its relation to SAD is unclear. We evaluated seasonal variation in amygdala activation in SAD and healthy controls (HC) using a longitudinal design targeting the asymptomatic/symptomatic phases of SAD. We hypothesized increased amygdala activation to aversive stimuli in the winter in SAD individuals (season-by-group interaction).

Methods

Seventeen SAD individuals and 15 HCs completed an implicit emotional faces BOLD-fMRI paradigm during summer and winter. We computed amygdala activation (SPM5) to an aversive contrast (angry & fearful minus neutral) and angry, fearful and neutral faces, separately. Season-by-group and main effects were evaluated using Generalized Least Squares. In SAD individuals, we

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