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Observational Study

Healthy individuals *vs* patients with bipolar or unipolar depression in gray matter volume

Yin-Nan Zhang, Hui Li, Zhi-Wei Shen, Chang Xu, Yue-Jun Huang, Ren-Hua Wu

Abstract

BACKGROUND

Previous studies using voxel-based morphometry (VBM) showed differences revealed changes in gray matter volume (GMV) patients with depression, but the differences between bipolar disorder (BD) and unipolar depression (UD) are less known.

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Reduced Amygdalar Gray Matter Volume in Familial Pediatric ...

https://www.sciencedirect.com/science/article/pii/S0890856709616324

Jun 01, 2005 · SC Caetano, R Sassi, P Brambilla, et al.MRI study of thalamic volumes in **bipolar** and **unipolar patients** and **healthy individuals** Psychiatry Res, 108 (2001), pp. 161-168 Article Download PDF View Record in Scopus Google Scholar

Cited by: 280 **Author:** Kiki Chang, Asya Karchemskiy, Naama Bar...
Publish Year: 2005

Reduced gray matter volume in ventral prefrontal cortex ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2646161

Jan 30, 2009 · These regions have therefore been a focus of study in mood-disordered populations, including BP and **unipolar depression**. In **unipolar depression**, structural abnormalities in OMPFC and amygdala have been reported (Sheline, 2000; Bremner et al., 2002). Specifically, one study found **volume** reduction in the rectal gyrus of the OMPFC in **individuals** ...

Cited by: 116 **Author:** Jorge R. C. Almeida, Jorge R. C. Almeida, D...
Publish Year: 2009

Hippocampal volumes in bipolar disorders: opposing effects ...

https://www.ncbi.nlm.nih.gov/pmc/articles/pmid/22548899

Hippocampal **volume** decrease secondary to illness burden is among the most replicated neuroimaging findings in **unipolar depression**, where it is thought to reflect hypothalamo-pituitary-adrenal axis (HPA) dysregulation during recurrences of illness (1–3).The phenotype as well as the HPA abnormalities overlap between **unipolar** and **bipolar depression** ().

Cited by: 80 **Author:** Tomas Hajek, Tomas Hajek, Jeffrey Cullis, ...
Publish Year: 2012

A comparison study of metabolic profiles, immunity, and ...

https://link.springer.com/article/10.1186/s12974-020-1724-9

Previous **individual** studies have shown the differences in inflammatory cytokines and **gray matter** volumes between **bipolar** disorder (BD) and **unipolar depression** (UD). However, few studies have investigated the association between pro-inflammatory cytokines and differences in brain **gray matter** volumes between BD and UD. In this study, 72 BD **patients** and 64 UD **patients** were enrolled, with ...

Smaller hippocampal volumes in patients with bipolar ...

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The clinical features, as well as HPA changes, overlap between **unipolar** and **bipolar depression**. 41 In addition, **bipolar depression** is typically the main manifestation of the illness, 42 is more likely to recur 43 and may start earlier 44 than **unipolar depression**. **Patients** with **unipolar** and **bipolar depression**, however, differ broadly in terms of ...

Reduced grey matter volume in frontal and temporal areas ...

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Enhanced neuro-oxidative pathways with neurodegenerative effects are more expressed in unipolar depressed than in bipolar patients, and therefore, future research should examine decreased grey matter volume in mood disorders in association with neuro-oxidative pathways.

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Equivalent linear change in cognition between **individuals with bipolar** disorder and **healthy** controls over five years ... Travis MJ, Banihashemi L, Kerr N, et al. Reduced **gray matter volume** in ventral prefrontal cortex but not amygdala in **bipolar** disorder: Significant effects of ...

Grey matter volume abnormalities in patients with bipolar ...

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Dec 11, 2014 · **Bipolar** disorder and **unipolar** depressive disorder (UD) may be different in brain structure. In the present study, we performed voxel-based morphometry (VBM) to quantify the grey **matter** volumes in 23 **patients with bipolar** I depressive disorder (BP1) and 23 **patients** with UD, and 23 age-, gender-, and education-matched **healthy** controls (HCs) using magnetic resonance imaging.

Predicting differential diagnosis between bipolar and ...

https://www.sciencedirect.com/science/article/pii/S0924977X20300717

May 01, 2020 · 1. Introduction. The burden of mood disorders (major **depression**, MDD; **bipolar** disorder, BD) is growing despite the availability of new interventions and reducing it requires major shifts in research, clinical practice, and public **health** by incorporating multidisciplinary intervention models (Wittchen, 2012).One of the greatest challenges in providing effective interventions for these disorders ...

Brain Morphometric Biomarkers Distinguishing Unipolar and ...

https://www.researchgate.net/publication/265343478...

In a study by Redlich et al. **individuals** with **unipolar depression** are reported to have smaller GM **volume** (GMV) of the anterior cingulate gyrus than **patients with bipolar depression** and **healthy** ...

Regional brain volume reductions in major depressive ...

https://onlinelibrary.wiley.com/doi/abs/10.1002/gps.5009

Oct 17, 2018 · This study enrolled 92 **individuals** with MDD, 32 **individuals** with BD, and 43 **healthy** controls (HCs). We focused on **gray matter volume** (GMV) of the subgenual anterior cingulate cortex (sgACC), subcallosal area (SCA), and hippocampus. The degree of **volume** reduction in these brain regions was calculated as the z score, and the differences of z ...

Brain Morphometric Biomarkers Distinguishing Unipolar and ...

https://jamanetwork.com/journals/jamapsychiatry/fullarticle/1900175

Apr 29, 2014 · **Unipolar depression** (UD) and **bipolar** disorders are leading causes of disability worldwide. 1,2 Among **patients with bipolar** disorder, misdiagnosis rates of up to 75% are reported, primarily for UD, 3,4 leading to insufficient treatment, poor outcome, and higher **health** care costs. 5,6 There is a particular difficulty in distinguishing **bipolar depression** (BD) from UD, owing to their having the ...

Pattern Recognition of Magnetic Resonance Imaging-Based ...

https://pubmed.ncbi.nlm.nih.gov/29156364

Methods: This study extends our previous work by performing **individual** level classification of BD or MDD in an expanded, currently unmedicated, cohort using **gray matter volume** (GMV) based on Magnetic Resonance Imaging and a Support Vector Machine. All **patients** were in a Major Depressive Episode and a leave-two-out analysis was performed.

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Cited by: 7 **Author:** Ya-Mei Bai, Ya-Mei Bai, Mu-Hong Chen, Mu-...
Publish Year: 2020

Reduced grey matter volume in frontal and temporal areas ...

https://www.cambridge.org/core/journals/acta-neuro...

Enhanced neuro-oxidative pathways with neurodegenerative effects are more expressed in unipolar depressed than in bipolar patients, and therefore, future research should examine decreased grey matter volume in mood disorders in association with neuro-oxidative pathways.

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Cited by: 25 **Author:** Yi Cai, Yi Cai, Jun Liu, Li Zhang, Mei Liao, Y...
Publish Year: 2015

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