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Retrospective Study

Diagnostic value of amygdala volume on structural magnetic resonance imaging in Alzheimer's disease

Wang DW *et al.* Amygdala volume in Alzheimer's disease

De-Wei Wang, Shou-Luan Ding, Xian-Li Bian, Shi-Yue Zhou, Hui Yang, Ping Wang

Abstract

BACKGROUND

The main clinical manifestation of Alzheimer's disease (AD) is memory loss, which can

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Background: Mild cognitive impairment (MCI) due to Alzheimer's disease is the symptomatic prodromal phase of Alzheimer's disease dementia, characterised by cognitive and functional...

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Objectives: To assess the **diagnostic** accuracy of **structural magnetic resonance imaging** (MRI) for the early diagnosis of dementia due to **Alzheimer's disease** in people with MCI versus the clinical follow-up diagnosis of **Alzheimer's disease** dementia as a reference standard (delayed verification). To investigate sources of heterogeneity in accuracy, such as the use of qualitative visual assessment or quantitative ...

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For both datasets, the new ex vivo atlas significantly outperformed (all $p < .05$) estimations of the whole **amygdala** derived from the segmentation in FreeSurfer 5.1 (ADNI: 75%, ABIDE: 54% accuracy), as well as classification based on whole **amygdala volume** (using the sum of all **amygdala** nuclei volumes; ADNI: 81%, ABIDE: 55% accuracy).

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A volumetric **magnetic resonance imaging** study of the **amygdala** in frontotemporal lobar degeneration and **Alzheimer's disease**. Whitwell JL(1), Sampson EL, Watt HC, Harvey RJ, Rossor MN, Fox NC. Author information: (1)Dementia Research Centre, Institute of Neurology, University College London, London, UK.

Cited by: 59**Author:** Jennifer L. Whitwell, Elizabeth L. Sampson,...**Publish Year:** 2005

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Mar 02, 2020 · Implications for practice. **Structural magnetic resonance imaging** (MRI) in hippocampus or medial temporal lobe, the most studied brain regions, showed low sensitivity and specificity and did not reach the standard required to be a stand-alone, add-on test for an early diagnosis of dementia due to **Alzheimer's disease** in people with MCI.

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