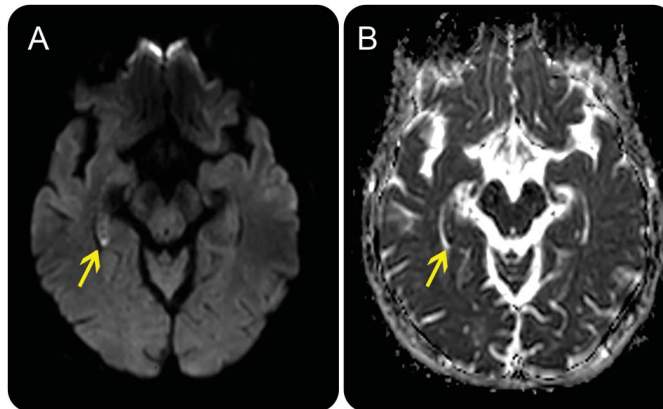


Teaching NeuroImages: Hippocampal foci of restricted diffusion in transient global amnesia

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Figure Brain MRI demonstrating right punctate hippocampal DWI hyperintensity



Restricted diffusion foci in the lateral portion of the right hippocampus seen in DWI (A, arrow) and apparent diffusion coefficient imaging (B, arrow). DWI = diffusion-weighted imaging.

A 71-year-old man presented with a sudden onset of anterograde amnesia and repetitive questioning. Symptoms lasted 12 hours. MRI performed 48 hours after onset showed right hippocampal restricted diffusion foci (figure, A and B).

Transient global amnesia (TGA) is a syndrome characterized by the rapid onset of anterograde amnesia, temporal disorientation, and iterative questioning that lasts up to 24 hours.¹

Punctate hippocampal diffusion-weighted imaging hyperintensities are described in up to 80% of patients, which usually appear 24 to 72 hours after TGA onset.² Similar lesions may be seen in posterior cerebral artery stroke but most of these patients do not exhibit TGA-like features.²

AUTHOR CONTRIBUTIONS

Carolina Cuello Oderiz: study concept and design, critical revision of manuscript for intellectual content. Diego Miñarro: study concept and design, acquisition of data. Dan Dardik: acquisition of data. María Cecilia Fernández: general concept.

STUDY FUNDING

No targeted funding reported.

DISCLOSURE

The authors report no disclosures relevant to the manuscript. Go to Neurology.org for full disclosures.

REFERENCES

1. Hainselin M, Quinette P, Desgranges B, et al. Awareness of disease state without explicit knowledge of memory failure in transient global amnesia. *Cortex* 2012;48:1079–1084.
2. Förster A, Griebel M, Gass A, et al. Diffusion-weighted imaging for the differential diagnosis of disorders affecting the hippocampus. *Cerebrovasc Dis* 2012;33:104–115.

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Neurology 2015;85:e145

DOI 10.1212/WNL.0000000000002124

This information is current as of November 16, 2015

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