Teaching NeuroImages: Brain MRI aspects of isolated cerebral mucormycosis

C. Dussaule
C. Nifle, MD
A. Therby, MD
O. Eloy, PhD
Y. Cordoliani, MD
F. Pico, MD, PhD

Correspondence & reprint
requests to Dr. Dussaule:
claire.dussaule@gmail.com

Figure MRI aspects of cerebral mucormycosis

Axial enhanced T1-weighted image (A, magnification of the right temporal lobe $\times 3$) and coronal T2-weighted images (B and C) revealed infiltrative T1 hypointense and T2 hyperintense lesion in the right temporal lobe, with peripheral serpiginous and radial strands enhancement (arrowheads, A). There is slight mass effect and edema. Note the right lateral sinus thrombosis (arrow, B) and the fluid-filled mastoid cells (arrow, C).

A 74-year-old man, with well-controlled diabetes, presented with 3 months of progressive delirium. Examination revealed left homonymous upper quadrantanopsia. MRI demonstrated right temporal lesion and right lateral sinus thrombosis (figure). CSF examination revealed elevated protein level (1.31 g/L) without pleocytosis. Microbiology tests were negative, including HIV. Biopsy was performed and microscopic examination revealed Mucorales filaments. Despite IV amphotericin B (100 mg daily) started immediately, he died 5 days later of postoperative cerebral hematoma. This isolated cerebral mucormycosis is unusual because of the immunocompetent status and the temporal location.^{1,2} The noticeable

gadolinium enhancement with radial strands described here has not been reported before. Its diagnosis value remains to be determined.

AUTHOR CONTRIBUTIONS

C. Dussaule: analysis and interpretation of the data and corresponding author. Dr. Nifle: analysis and interpretation of the data. Dr. Therby: analysis and interpretation of the data. Dr. Eloy: analysis and interpretation of the data. Dr. Cordoliani: analysis and interpretation of the data. Dr. Pico: analysis and interpretation of the data.

REFERENCES

1. Siddiqi SU, Freedman JD. Isolated central nervous system mucormycosis. *South Med J* 1994;87:997–1000.
2. Verma A, Brozman B, Petito CK. Isolated cerebral mucormycosis: report of a case and review of the literature. *J Neurol Sci* 2006;240:65–69.

Neurology[®]

Teaching *NeuroImages*: Brain MRI aspects of isolated cerebral mucormycosis

C. Dussaule, C. Nifle, A. Therby, et al.

Neurology 2012;78:e93

DOI 10.1212/WNL.0b013e31824e8ed0

This information is current as of April 2, 2012

Updated Information & Services	including high resolution figures, can be found at: http://n.neurology.org/content/78/14/e93.full
References	This article cites 2 articles, 0 of which you can access for free at: http://n.neurology.org/content/78/14/e93.full#ref-list-1
Subspecialty Collections	This article, along with others on similar topics, appears in the following collection(s): Cerebral venous thrombosis http://n.neurology.org/cgi/collection/cerebral_venous_thrombosis Fungal infections http://n.neurology.org/cgi/collection/fungal_infections MRI http://n.neurology.org/cgi/collection/mri
Permissions & Licensing	Information about reproducing this article in parts (figures, tables) or in its entirety can be found online at: http://www.neurology.org/about/about_the_journal#permissions
Reprints	Information about ordering reprints can be found online: http://n.neurology.org/subscribers/advertise

Neurology® is the official journal of the American Academy of Neurology. Published continuously since 1951, it is now a weekly with 48 issues per year. Copyright Copyright © 2012 by AAN Enterprises, Inc.. All rights reserved. Print ISSN: 0028-3878. Online ISSN: 1526-632X.