Teaching NeuroImages: Reversible widespread brain MRI lesions in Marchiafava-Bignami disease

Irena Dujmović, MD, PhD
Ivan Nikolić, MD
Mira Gavrić-Kezić, MD
Jelena Dačković, MD
Šarlota Mesaroš, MD, PhD
Jelena Drulović, MD, PhD

Correspondence to
Dr. Dujmović: irdujm@EUnet.rs

A 54-year-old woman with a history of alcoholism presented with stupor. Brain MRI disclosed extensive callosal and widespread extracallosal white matter and cortical lesions (figure) suggestive of Marchiafava-Bignami disease (MBD).1 After 4 weeks of treatment with thiamine and corticosteroids, a complete resolution of brain MRI lesions along with a good clinical recovery was observed.

In MBD, which is rare and frequently associated with alcoholism, brain MRI may show callosal, but also extracallosal, white matter and cortical lesions.1,2 In alcoholic MBD patients with impaired consciousness, rapid resolution of the widespread callosal, extracallosal, and cortical MRI lesions is highly unusual.1,2

AUTHOR CONTRIBUTIONS
Dr. Dujmović: drafting/revising the manuscript for content, study concept or design, analysis/interpretation of data. Dr. Nikolić: drafting/revising the manuscript for content, analysis/interpretation of data, acquisition of data. Dr. Gavrić-Kezić: drafting/revising the manuscript for content, study concept or design, analysis/interpretation of data, acquisition of data.

From the Clinic of Neurology (I.D., J. Dačković, S.M., J. Drulović) and MRI Centre (J.N.), Clinical Centre of Serbia, Belgrade; University of Belgrade School of Medicine (I.D., S.M., J. Drulović), Serbia; and County Hospital (M.G.-K.) Užice, Serbia.

Go to Neurology.org for full disclosures. Funding information and disclosures deemed relevant by the authors, if any, are provided at the end of the article.
content. Dr. Dačković: drafting/revising the manuscript for content. Dr. Mesaroš: drafting/revising the manuscript for content. Dr. Drulović: drafting/revising the manuscript for content, study concept or design, analysis/interpretation of data.

**STUDY FUNDING**

Supported by the Republic of Serbia Ministry of Education, Science and Technological Development (Grant No 175031).

**DISCLOSURE**

I. Dujmović has been supported by the Republic of Serbia Ministry of Education, Science and Technological Development (Grant No 175031). I. Nikolić, M. Gavrić-Kezić, and J. Dačković report no disclosures. S. Mesaroš has been supported by the Republic of Serbia Ministry of Education, Science and Technological Development (Grant No 175031). J. Drulović has been supported by the Republic of Serbia Ministry of Education, Science and Technological Development (Grant No 175031). Go to Neurology.org for full disclosures.

**REFERENCES**


Teaching NeuroImages: Reversible widespread brain MRI lesions in Marchiafava-Bignami disease
Irena Dujmovic, Ivan Nikolic, Mira Gavric-Kezic, et al.
Neurology 2015;84:e81-e82
DOI 10.1212/WNL.0000000000001373

This information is current as of March 16, 2015

Updated Information & Services
including high resolution figures, can be found at:
http://www.neurology.org/content/84/11/e81.full.html

Supplementary Material
Supplementary material can be found at:
http://www.neurology.org/content/suppl/2015/03/15/WNL.0000000000001373.DC1

References
This article cites 2 articles, 2 of which you can access for free at:
http://www.neurology.org/content/84/11/e81.full.html##ref-list-1

Subspecialty Collections
This article, along with others on similar topics, appears in the following collection(s):
Alcohol
http://www.neurology.org/cgi/collection/alcohol
DWI
http://www.neurology.org/cgi/collection/dwi
MRI
http://www.neurology.org/cgi/collection/mri
Prognosis
http://www.neurology.org/cgi/collection/prognosis

Permissions & Licensing
Information about reproducing this article in parts (figures, tables) or in its entirety can be found online at:
http://www.neurology.org/misc/about.xhtml#permissions

Reprints
Information about ordering reprints can be found online:
http://www.neurology.org/misc/addir.xhtml#reprintsus