## **Neuro***lmages*

## VIDEO Wernicke encephalopathy

Daniel W. Koontz, MD; Jose Americo Fernandes Filho, MD; Stephen M. Sagar, MD; and Janet C. Rucker, MD Cleveland, OH

A 65-year-old woman with a history of alcohol abuse was admitted for dehydration and a urinary tract infection. She was treated with normal saline and ceftriaxone. The following morning she developed complete horizontal ophthalmoplegia, upbeat nystagmus, and gait ataxia. IV thiamine was administered. Brain MRI revealed increased fluid-attenuated inversion recovery signal in the midbrain periaqueductal gray matter and surrounding the third ventricle (figure). Three hours after thiamine administration, horizontal eye movements had improved (see video clip 1 on the Neurology Web site; go to www.neurology.org). On discharge, upbeat nystagmus and a wide-based gait persisted. The patient's clinical presentation, MRI, and response to thiamine are classic for Wernicke encephalopathy.<sup>1,2</sup>

- 1. Leigh RJ, Zee DS. The neurology of eye movements, 3rd ed. New York: Oxford University Press, 1999:559.
- Weidauer S, Nichtweiss M, Lanfermann H, Zanella FE. Wernicke encephalopathy: MR findings and clinical presentation. Eur Radiol 2003; 13:1001-1009.

Additional material related to this article can be found on the Neurology Web site. Go to www.neurology.org and scroll down the Table of Contents for the July 27 issue to find the title link for this article.

Address correspondence and reprint requests to Dr. Janet C. Rucker, Department of Neurology, Case Western Reserve School of Medicine, Hanna House 5th Floor, 11100 Euclid, Cleveland, OH 44106; e-mail: janet.rucker@uhhs.com

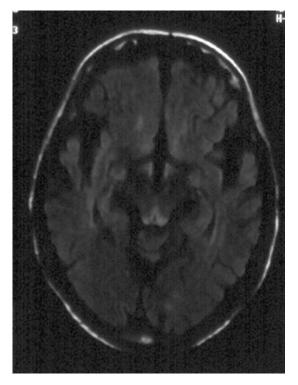


Figure. T2-weighted fluid-attenuated inversion recovery axial brain MRI showing abnormal hyperintensity in the periaqueductal gray matter at the level of the midbrain and surrounding the third ventricle.



## Wernicke encephalopathy

Daniel W. Koontz, Jose Americo Fernandes Filho, Stephen M. Sagar, et al. Neurology 2004;63;394 DOI 10.1212/01.WNL.0000134618.98139.1E

## This information is current as of July 26, 2004

**Updated Information &** including high resolution figures, can be found at: Services

http://n.neurology.org/content/63/2/394.full

**Supplementary Material** Supplementary material can be found at:

http://n.neurology.org/content/suppl/2004/07/07/63.2.394.DC1

References This article cites 1 articles, 0 of which you can access for free at:

http://n.neurology.org/content/63/2/394.full#ref-list-1

**Subspecialty Collections** This article, along with others on similar topics, appears in the

following collection(s):

Nutritional

http://n.neurology.org/cgi/collection/nutritional

Nystagmus

http://n.neurology.org/cgi/collection/nystagmus

**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. All rights reserved. Print ISSN: 0028-3878. Online ISSN: 1526-632X.

