19. Kremer S, Braun M, Kahane P, et al. Morphological abnormalities of limbic lobe structures in partial temporal lobe epilepsy. *J Radiol* 2001;82:481–487.
20. Oikawa H, Sasaki M, Tamakawa Y, et al. The circuit of Papez in mesial temporal sclerosis: MRI. *Neuroradiology* 2001;43:205–210.
21. Deasy NP, Jarosz JM, Elwes RC, et al. Thalamic changes with mesial temporal sclerosis: MRI. *Neuroradiology* 2000;42:346–351.

22. Juhasz C, Nagy F, Watson C, et al. Glucose and [^{11}C]flumazenil positron emission tomography abnormalities of thalamic nuclei in temporal lobe epilepsy. *Neurology* 1999;53:2037–2045.
23. Spanaki MV, Kopylev L, DeCarli C, et al. Postoperative changes in cerebral metabolism in temporal lobe epilepsy. *Arch Neurol* 2000;57:1447–1452.

Neuro Images

Figure. FLAIR brain MR images demonstrated increased signal around the third and fourth ventricles, Sylvian aqueduct, mammillary bodies (indicated by arrow), and tectum. These radiologic findings are typical for Wernicke's encephalopathy, and are believed to reflect regions of cytotoxic edema.²

Wernicke's encephalopathy

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A 57-year-old alcoholic man was admitted for nausea, vomiting, and diarrhea for 1 month, and confusion, imbalance, and auditory and visual hallucinations for 1 week. His daughter noticed that he had “funny eye movements” over the previous week. A diagnosis of Wernicke's encephalopathy was made (figure).¹ Despite treatment with IV

thiamine and nutritional supplementation, the patient progressed 2 days later to coma with total ophthalmoplegia. Two weeks after admission, the patient was oriented to person, had recovered some horizontal eye movements, remembered the names of his children, and could follow simple commands.

1. Reuler JB, Girard DE, Cooney TG. Wernicke's encephalopathy. *N Engl J Med* 1986;312:1035–1038.
2. Chu K, Kang DW, Kim HJ, Lee YS, Park SH. Diffusion-weighted imaging abnormalities in Wernicke's encephalopathy. *Arch Neurol* 2002;59:123–127.

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