A 33-year-old man presented with baryglossia, memory disturbance, and seizures for a month. The workup for infectious and rheumatic disease was negative. Serum and CSF anti-NMDAR antibody were positive. MRI showed cortical and subcortical hyperintensities with adjacent pachymeningeal thickening and enhancement (C and D, arrows). The FLAIR hyperintensities and dural enhancement improved after treatment (E–H). FLAIR = fluid-attenuated inversion recovery.

The frequently reported abnormalities on MRI in anti-NMDAR encephalitis are leptomeningeal enhancement and T2/FLAIR cortical and subcortical hyperintensities in the temporal lobe, followed by the frontal lobe, periventricular region, and cerebellum, rarely involving the dura mater.1,2

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References

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Teaching NeuroImage: Dura Mater Thickening and Enhancement in Anti-NMDAR Encephalitis

Cheng Xia and Hui-Sheng Chen

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