A 71-year-old man presented with right hypoacusis following immunosuppressive therapy after liver transplantation.

MRI demonstrated T1-hypointense and T2-hyperintense white matter lesions involving the right middle cerebellar peduncle, adjacent pons, and cerebellum, consistent with progressive multifocal leukoencephalopathy (PML), confirmed with PCR in a CSF sample. Fluid-attenuated inversion recovery and double inversion recovery sequences revealed involvement of right cranial nerves V (arrowhead) and VIII (arrow).

CSF revealed normal cell counts, glucose, and protein. PCR for herpesviruses and toxoplasmosis and CSF culture for Mycobacterium tuberculosis, Listeria monocytogenes, and Cryptococcus neoformans were negative. Chest and abdominal CT were normal.

In PML, infratentorial white matter is a common area of involvement.1,2 Our patient suggests cranial nerve involvement is possible.
manuscript. Dr. Rodallec: drafting/revising the manuscript, analysis or interpretation of data, study supervision. Dr. Zins: drafting/revising the manuscript. Dr. Vermersch: drafting/revising the manuscript, analysis or interpretation of data, acquisition of data. Dr. Leclerc: drafting/revising the manuscript, analysis or interpretation of data.

Dr. Hodel reports no disclosures. Dr. Outteryck has received funding for travel from Biogen Idec, Bayer Schering Pharma, Merck Serono, Novartis, Teva Pharmaceutical Industries Ltd, and Sanofi-Aventis and for speaker honoraria from Bayer Schering Pharma, Biogen Idec and Sanofi-Aventis. Dr. Zéphir has received funding for travel from Biogen Idec, Bayer Schering Pharma, Merck Serono, Novartis, Teva Pharmaceutical Industries Ltd, and Sanofi-Aventis and for speaker honoraria from Bayer Schering Pharma, Biogen Idec, Teva Pharmaceutical Industries Ltd, and Sanofi-Aventis. Dr. Rodallec and Dr. Zins report no disclosures. Dr. Vermersch serves on scientific advisory board for Biogen Idec, Bayer Schering Pharma, Merck Serono, Novartis, Teva Pharmaceutical Industries Ltd, Almirall, and Sanofi-Aventis; has received funding for travel and speaker honoraria from Biogen Idec, Bayer Schering Pharma, Novartis, Teva Pharmaceutical Industries Ltd, Sanofi-Aventis, and Merck Serono; and receives research support from Biogen Idec, Merck Serono, Sanofi-Aventis, Teva Pharmaceutical Industries Ltd, and Bayer Schering Pharma. Dr. Leclerc reports no disclosures.

Go to Neurology.org for full disclosures.

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Cranial nerve involvement in infratentorial progressive multifocal leukoencephalopathy
Jérôme Hodel, Olivier Outteryck, Hélène Zéphir, et al.
Neurology 2012;79:104-105
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