Teaching Video *NeuroImages*: Holmes tremor in progressive multifocal leukoencephalopathy isolated to the posterior fossa

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Figure Progressive multifocal leukoencephalopathy lesion restricted to the posterior fossa

T2-weighted MRI shows typical hyperintense crescent-shaped progressive multifocal leukoencephalopathy lesion involving the right middle cerebellar peduncle and white matter of the right cerebellar hemisphere.

A 47-year-old right-handed man with longstanding HIV infection (CD4 count 105/ μ L; normal range 700–1,200/ μ L) presented with a 3-week history of clumsiness and shaking of his right hand. Clinical examination revealed a slow, irregular distal tremor of the right upper limb present at rest and posture (video). Brain imaging revealed a demyelinating lesion affecting the right middle cerebellar peduncle and adjacent cerebellar white matter (figure). The CSF PCR for JC virus was strongly positive, establishing the diagnosis of progressive multifocal leukoencephalopathy (PML).¹ Holmes tremor is a rare manifestation of PML.²

AUTHOR CONTRIBUTIONS

Juri Katchanov: drafting/revising the manuscript, study concept or design, analysis or interpretation of data, accepts responsibility for conduct of research and final approval, acquisition of data. Gordian

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