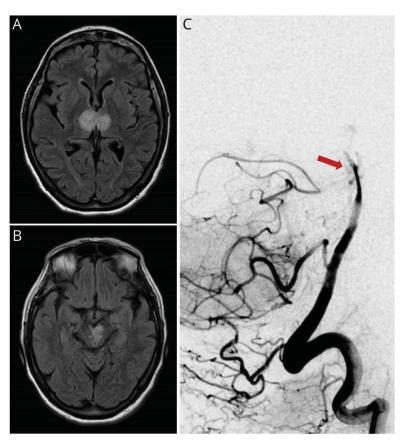
Teaching Video NeuroImage: Bilateral Eyelid Opening Apraxia in a Patient With Top of the Basilar Syndrome

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Figure Patient's Neuroimaging



Brain MRI showing a bilateral paramedian thalamic (A) and mesencephalic (B) infarction in fluid-attenuated inversion recovery sequences. Digital subtraction angiography showing an occlusion of the top of the basilar artery (arrow, C).

A 76-year-old woman was admitted to our emergency department for acute development of vertigo, followed by loss of consciousness. Brain MRI revealed a bilateral paramedian thalamo-mesencephalic infarction due to basilar artery occlusion (Figure). The patient underwent systemic thrombolysis and mechanical thrombectomy, with complete reperfusion of the basilar artery. After the procedure, the patient was alert and oriented, and her examination demonstrated apraxia of eyelid opening (ALO) and vertical-gaze palsy (Video 1). ALO is considered a form of eyelid dystonia. Previous electromyographic studies on affected patients demonstrated either involuntary levator-palpebrae inhibition or pretarsal orbicularis-oculi MORE ONLINE



Teaching slides

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From the Department of Neuroscience (A.T.C., F.V., R.I.), Università Cattolica del Sacro Cuore; and UOC Neurologia (R.I.), Fondazione Policlinico Universitario Agostino Gemelli IRCSS,

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muscle motor persistence.¹ Its neuroanatomic bases are still unknown, but there is evidence that this condition is linked to disorders of the basal ganglia, rostral midbrain, and frontal lobes.¹ Myint et al.² reported a case of ALO in isolated bilateral thalamic infarction, suggesting that the paramedian thalamic nuclei may have a role in the voluntary eyelid movements network.

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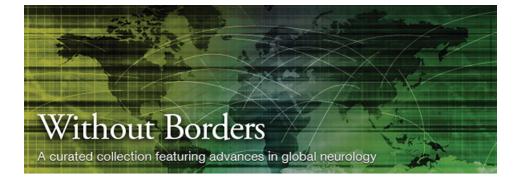
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