

## Denervation-related fatty muscle infiltration

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Brain MRI in a 6-year-old girl with a history of congenital HIV and toxoplasmosis infection revealed polymicrogyria and white matter findings suggestive of congenital CMV infection. In addition, a smaller right trigeminal nerve (Fig. 1 *curved arrow*), a cleft extending into the smaller right cerebellar hemisphere (Fig. 1 *straight arrow*) and fatty infiltration of the right temporalis muscle (Figs. 1 and 2 *arrowheads*) were seen. The gyral pattern in the right



**Fig. 1** Axial T2-W image at the level of the trigeminal nerve



**Fig. 2** Coronal MPRAGE image

inferior temporal lobe was abnormal. The striking fatty infiltration of the muscles of mastication was likely a result of right trigeminal nerve hypoplasia caused by a vascular or infective insult to the brainstem [1]. These findings were present in retrospect on studies obtained in the postnatal period, but less conspicuous due to the smaller size of the patient.

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