An unusual cause of symptomatic tension-type headache
Hypertrophic branchial myopathy

A 30-year-old previously healthy man had a 3-year history of bilateral temporal headache of moderate intensity, compatible with frequent episodic tension-type headache, concomitant with mild and fluctuating hypertrophy of the temporal muscles. There was no overactivity of masticatory muscles; there was increased creatine phosphokinase (560 UI/mL, normal <200).

Electroneuromyography showed mild polyphasic motor unit potentials of short duration in the masseter and temporal muscles. MRI (figure) showed hypertrophic temporal muscles. These features are highly suggestive of hypertrophic branchial myopathy.1,2 This rare disorder of unknown etiology selectively affects muscles of mastication, derived from the branchial cleft. Botulinum toxin may help both hypertrophy and headache.

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Disclosure: The authors report no disclosures.

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Neurology 2011;76;488
DOI 10.1212/WNL.0b013e31820a0d4b

This information is current as of January 31, 2011