Bilateral Marcus Gunn jaw-winking syndrome

A 10-year-old boy presented with alternating elevation of his eyelids upon chewing, present since birth (video on the *Neurology*® Web site at Neurology.org). Examination showed mild left ptosis but no ophthalmoparesis. This represents Marcus Gunn jaw-winking syndrome (MGJWS), also called trigemino-oculomotor synkinesis or pterygoid-levator synkinesis. It likely results from aberrant connections in the midbrain between trigeminal mesencephalic nucleus and oculomotor nucleus, although others have postulated connections between the mandibular division of trigeminal nerve innervating lateral pterygoid and the superior division of oculomotor nerve innervating levator palpebrae superioris. MGJWS occurs in 2%–13% of patients with congenital ptosis.¹ It is usually unilateral but rarely presents bilaterally.²

Deepa Kannaditharayil, MD, Howard Geyer, MD, PhD, Henry Hasson, MD, Steven Herskovitz, MD

From Montefiore Medical Center (D.K., H.G., S.H.), Bronx; and private practice (H.H.), Brooklyn, NY.

Author contributions: Deepa Kannaditharayil: drafting/revising the manuscript, accepts responsibility for conduct of research and final approval. Howard Geyer: drafting/revising the manuscript, study concept or design, analysis or interpretation of data, accepts responsibility for conduct of research and final approval. Henry Hasson: drafting/revising the manuscript, analysis or interpretation of data, accepts responsibility for conduct of research and final approval, acquisition of data. Steven Herskovitz: drafting/revising the manuscript, study concept or design, analysis or interpretation of data, accepts responsibility for conduct of research and final approval.

Study funding: No targeted funding reported.

Disclosure: The authors report no disclosures relevant to the manuscript. Go to Neurology.org for full disclosures.

Correspondence to Dr. Kannaditharayil: deepa.kannaditharayil@hotmail.com

**Supplemental data
at Neurology.org**

1. Demirci H, Frueh BR, Nelson CC. Marcus Gunn jaw-winking synkinesis: clinical features and management. *Ophthalmology* 2010;117:1447–1452.
2. Shah AD, Kumar AB, Kothari K. Bilateral Marcus Gunn jaw winking synkinesis with monocular elevation deficiency: a case report and literature review. *Int Ophthalmol* 2012;32:199–201.

Neurology[®]

Bilateral Marcus Gunn jaw-winking syndrome
Deepa Kannaditharayil, Howard Geyer, Henry Hasson, et al.
Neurology 2015;84:1061
DOI 10.1212/WNL.0000000000001338

This information is current as of March 9, 2015

Updated Information & Services	including high resolution figures, can be found at: http://n.neurology.org/content/84/10/1061.full
Supplementary Material	Supplementary material can be found at: http://n.neurology.org/content/suppl/2015/03/07/WNL.0000000000001338.DC1
References	This article cites 2 articles, 0 of which you can access for free at: http://n.neurology.org/content/84/10/1061.full#ref-list-1
Permissions & Licensing	Information about reproducing this article in parts (figures, tables) or in its entirety can be found online at: http://www.neurology.org/about/about_the_journal#permissions
Reprints	Information about ordering reprints can be found online: http://n.neurology.org/subscribers/advertise

Neurology® is the official journal of the American Academy of Neurology. Published continuously since 1951, it is now a weekly with 48 issues per year. Copyright © 2015 American Academy of Neurology. All rights reserved. Print ISSN: 0028-3878. Online ISSN: 1526-632X.