

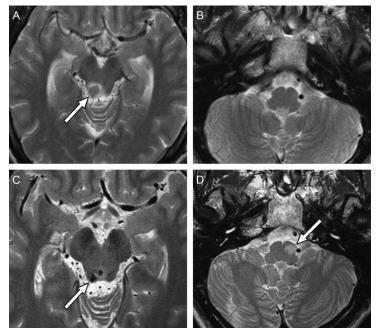
Section Editor Mitchell S.V. Elkind, MD, MS

Teaching Video Neuro*Images*: Micronystagmus of oculopalatal tremor

Liuna Jang, MD François-Xavier Borruat, MD

Correspondence to Dr. Borruat: francois.borruat@fa2.ch

Figure MRI, axial T2 sequences



Initially: right inferior colliculus hemorrhage (A, arrow) and normal inferior olivary nucleus (B). Three months later: resolution of hemorrhage (C, arrow) and left inferior olivary nucleus hyperintense signal (D, arrow).

Three months after brainstem hemorrhage, MRI revealed a hyperintense lesion of the left inferior olivary nucleus of a 45-year-old man (figure). The patient was completely asymptomatic, but exhibited oculopalatal tremor (OPT), rhythmic palatal oscillations, and small-amplitude vertical pendular nystagmus of the right eye, best visualized on fundus examination (see video).

OPT is caused by interruption of the inhibitory dentato-olivary pathway, resulting in synchronous oscillations of the olivary neurons. This pathway crosses the midbrain then descends to the contralateral inferior olivary nucleus. 1,2

Asymptomatic OPT is rare. Micronystagmus can be overlooked with simple observation but is readily detected during fundus examination.

AUTHOR CONTRIBUTIONS

Liuna Jang is an author, and contributed to drafting and revising the manuscript. François-Xavier Borruat is an author, and contributed to data acquisition and revising the manuscript.

DISCLOSURE

L. Jang reports no disclosures. F.-X. Borruat received honoraria from Novartis for participating in clinical trials and from Allergan for speaking engagements. Go to Neurology.org for full disclosures.

REFERENCES

- Kim JS, Moon SY, Choi KD, Kim JH, Sharpe JA. Patterns of ocular oscillation in oculopalatal tremor: imaging correlations. Neurology 2007;68:1128–1135.
- Shaikh AG, Hong S, Liao K, et al. Oculopalatal tremor explained by a model of inferior olivary hypertrophy and cerebellar plasticity. Brain 2010;133:923–940.

Supplemental data at www.neurology.org



Teaching Video Neuro Images: Micronystagmus of oculopalatal tremor

Liuna Jang and François-Xavier Borruat
Neurology 2013;80;e27
DOI 10.1212/WNL.0b013e31827debc3

This information is current as of January 14, 2013

Updated Information & including high resolution figures, can be found at:

Services http://n.neurology.org/content/80/3/e27.full

Supplementary Material Supplementary material can be found at:

http://n.neurology.org/content/suppl/2013/01/12/80.3.e27.DC1

References This article cites 2 articles, 1 of which you can access for free at:

http://n.neurology.org/content/80/3/e27.full#ref-list-1

Subspecialty Collections This article, along with others on similar topics, appears in the

following collection(s):

Clinical neurology examination

http://n.neurology.org/cgi/collection/clinical_neurology_examination

Intracerebral hemorrhage

http://n.neurology.org/cgi/collection/intracerebral_hemorrhage

MRI

http://n.neurology.org/cgi/collection/mri

Nystagmus

http://n.neurology.org/cgi/collection/nystagmus

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 © 2013 American Academy of Neurology. All rights reserved. Print ISSN: 0028-3878. Online ISSN: 1526-632X.

