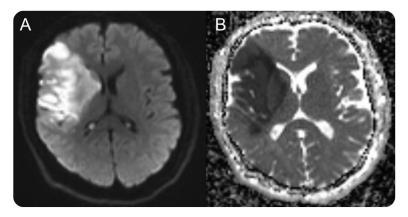


Section Editor John J. Millichap, MD

# Teaching Video Neuro*Images*: Apraxia of eyelid closure following right hemispheric infarction

Jesse M. Thon, MD Lily Grossmann, MD Shamik Bhattacharyya, MD

Correspondence to Dr. Thon: Jesse.Thon@gmail.com Figure Brain MRI displays right middle cerebral artery (MCA) territory infarction



MRI shows a right MCA territory infarction on (A) diffusion-weighted imaging and (B) apparent diffusion coefficient sequences.

A 56-year-old man presented following a right middle cerebral artery territory infarction (figure). In addition to left hemiparesis and neglect, he was unable to close his left eye on command (video at Neurology.org), though he was able to blink spontaneously and keep his eyes closed during sleep. He could maintain closure of both eyes once manually closed. Apraxia of eyelid closure is distinguished clinically from eyelid closure weakness by ability to blink reflexively and maintain eyelid closure. Activation of the oculomotor cortex has been associated with voluntary eyelid closure and lesions in right frontal and parietal lobes with eyelid closure apraxia.<sup>1,2</sup>

#### **AUTHOR CONTRIBUTIONS**

Jesse Thon: primary author, composed figure, clinician interviewer and examiner in video. Lily Grossmann: contributing author, primary physician

for patient. Shamik Bhattacharyya: supervising author, attending physician for patient, edited video.

#### STUDY FUNDING

No targeted funding reported.

### **DISCLOSURE**

J. Thon and L. Grossmann report no disclosures relevant to the manuscript. S. Bhattacharyya: consultant to Advance Medical. Go to Neurology.org for full disclosures.

#### **REFERENCES**

- Hamano T, Kimura S, Miyao S, Teramoto J. Apraxia of eyelid closure complicating right parietal infarction. Eur Neurol 2001;45:122–123.
- van Koningsbruggen MG, Peelen MV, Davies E, Rafal RD. Neural control of voluntary eye closure: a case study and an fMRI investigation of blinking and winking. Behav Neurol 2012;25:103–109.

Supplemental data at Neurology.org



# Teaching Video Neuro Images: Apraxia of eyelid closure following right hemispheric infarction

Jesse M. Thon, Lily Grossmann and Shamik Bhattacharyya Neurology 2017;89;e15 DOI 10.1212/WNL.0000000000004091

## This information is current as of July 10, 2017

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

Services http://n.neurology.org/content/89/2/e15.full

**Supplementary Material** Supplementary material can be found at:

http://n.neurology.org/content/suppl/2017/07/10/WNL.0000000000004

091.DC1

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

http://n.neurology.org/content/89/2/e15.full#ref-list-1

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

following collection(s): All Neuro-ophthalmology

http://n.neurology.org/cgi/collection/all\_neuroophthalmology

Clinical neurology examination

http://n.neurology.org/cgi/collection/clinical\_neurology\_examination

**Eyelids** 

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

Infarction

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

**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 © 2017 American Academy of Neurology. All rights reserved. Print ISSN: 0028-3878. Online ISSN: 1526-632X.

