Teaching Video NeuroImages: Ictal vomiting in a child

Gewalin Aungaroon, MD, and Marissa Vawter-Lee, MD

Neurology® 2018;91:e1836-e1837. doi:10.1212/WNL.00000000000006479

Correspondence

Dr. Aungaroon
Gewalin.aungaroon@cchmc.org

Figure MRI of polymicrogyria

T1-weighted MRI scan shows cortical thickening and indistinction of the margin between gray and white matter in the left temporal lobe, posterior insular cortex, and temporal operculum (arrow). The nodular areas of gray matter along the left lateral ventricle occipital horn were compatible with gray matter heterotopia (arrowhead).

A 22-month-old boy presented with repetitive vomiting. The vomiting was occasionally associated with behavioral arrest, right arm jerking, and rightward head deviation. Video EEG revealed ictal vomiting localized to the left temporal head region (video 1). The MRI showed left hemisphere polymicrogyria, particularly in the left temporal lobe (figure). The seizures remained intractable despite multiple antiepileptic medications (levetiracetam, oxcarbazepine, and lacosamide). Ictal vomiting is a rare seizure semiology with a few distinctive features.¹ It is reported in 2.7% of children and hypothesized to be associated with insular cortex involvement during a seizure.^{2,3}

MORE ONLINE

► **Video**

→ **Teaching slides**

links.lww.com/WNL/A734

Acknowledgment

The authors thank Jason Buroker, Cincinnati Children's Hospital Medical Center, for technical support.

Study funding

No targeted funding reported.

Disclosure

The authors report no disclosures relevant to the manuscript.
Go to Neurology.org/N for full disclosures.

References

1. Kramer RE, Luders H, Goldstick LP, et al. Ictus emeticus: an electroclinical analysis. *Neurology* 1988;38:1048–1052.

2. Catenoix H, Isnard J, Guenot M, Petit J, Remy C, Mauguiere F. The role of the anterior insular cortex in ictal vomiting: a stereotactic electroencephalography study. *Epilepsy Behav* 2008;13:560–563.

3. Panayiotopoulos CP. Vomiting as an ictal manifestation of epileptic seizures and syndromes. *J Neurol Neurosurg Psychiatry* 1988;51:1448–1451.

Appendix 1. Author contributions

Name	Location	Role	Contribution
Gewalin Aungaroon, M.D.	Cincinnati Children's Hospital Medical Center, Cincinnati, OH	Author	Conception and design of the study; collection, analysis, and interpretation of the data; drafting and critical revision of the article; generation/collection of the figures
Marissa Vawter-Lee, M.D.	Cincinnati Children's Hospital Medical Center, Cincinnati, OH	Author	Collection of the data; drafting and critical revision of the article

Neurology[®]

Teaching Video NeuroImages: Ictal vomiting in a child

Gewalin Aungaroon and Marissa Vawter-Lee

Neurology 2018;91:e1836-e1837

DOI 10.1212/WNL.0000000000006479

This information is current as of November 5, 2018

Updated Information & Services	including high resolution figures, can be found at: http://n.neurology.org/content/91/19/e1836.full
References	This article cites 3 articles, 2 of which you can access for free at: http://n.neurology.org/content/91/19/e1836.full#ref-list-1
Subspecialty Collections	This article, along with others on similar topics, appears in the following collection(s): All Clinical Neurology http://n.neurology.org/cgi/collection/all_clinical_neurology All Education http://n.neurology.org/cgi/collection/all_education All Epilepsy/Seizures http://n.neurology.org/cgi/collection/all_epilepsy_seizures EEG; see Epilepsy/Seizures http://n.neurology.org/cgi/collection/eeg_see_epilepsy-seizures Epilepsy semiology http://n.neurology.org/cgi/collection/epilepsy_semiology
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 © 2018 American Academy of Neurology. All rights reserved. Print ISSN: 0028-3878. Online ISSN: 1526-632X.