

Teaching Video NeuroImages: Ictal vomiting in a child

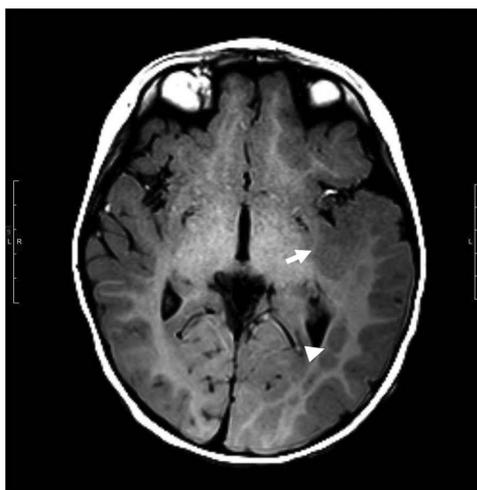
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Neurology® 2018;91:e1836-e1837. doi:10.1212/WNL.0000000000006479

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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}

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Acknowledgment

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

From the Division of Neurology, Cincinnati Children's Hospital Medical Center, and the Department of Pediatrics, University of Cincinnati College of Medicine, OH. Go to Neurology.org/N for full disclosures. Funding information and disclosures deemed relevant by the authors, if any, are provided at the end of the article.

Study funding

No targeted funding reported.

Disclosure

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

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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

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This information is current as of November 5, 2018

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