Fosphenytoin-induced dyskinesias in an infant with Sturge-Weber syndrome

Figure 1 MRI findings in Sturge-Weber syndrome

T1 postcontrast MRI illustrating right hemispheric cerebral angiomas.

Phenytoin-induced dyskinesias are uncommon and underrecognized.¹ An 11-month-old girl with Sturge-Weber syndrome (figure 1) and left hemiparesis had prolonged pharmacoresistant seizures. After IV fosphenytoin (peak level = 17.9 $\mu\text{g/mL}$, free level not obtained), she developed right hemi-dyskinesias with nystagmoid eye movements that stopped during sleep (video on the *Neurology*[®] Web site at Neurology.org).

Figure 2 EEG findings

The EEG during the dyskinetic reaction showed no ictal correlate. Note the decreased amplitudes over the right cerebral hemisphere with frequent nystagmoid eye movement artifact.

Supplemental data
at Neurology.org

Video-EEG showed no ictal change (figure 2). Concurrent medications included oxcarbazepine, levetiracetam, and valproic acid. The movements resolved 8 hours after discontinuing fosphenytoin. Right cerebral infarction was the presumed underlying cause of phenytoin-induced hemi-dyskinesia. Diagnosis of phenytoin-induced dyskinesias requires a high index of suspicion and typically resolves upon medication discontinuation.

Drew M. Thodeson, MD, David C. Reiber, REEGT, Alison M. Dolce, MD, Deepa Sirsi, MD

From the Department of Neurology (D.M.T., A.M.D., D.S.), Division of Pediatric Epilepsy and Clinical Neurophysiology, University of Texas Southwestern Medical Center; and Department of Neurophysiology (D.C.R.), Children's Medical Center Dallas, TX.

Author contributions: Dr. Drew Thodeson: writing the manuscript, selecting and collecting images and video files, and patient consent. David Reiber: patient care and video editing. Dr. Alison Dolce: critical revision of the manuscript. Dr. Deepa Sirsi: critical revision of the manuscript.

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. Thodeson: drew.thodeson@gmail.com

1. Krishnamoorthy KS, Zalneraitis EL, Young RSK, Bernad PG. Phenytoin-induced choreoathetosis in infancy: case reports and a review. *Pediatrics* 1983;72:831–834.

Get Connected. Stay Connected.

Connect with the American Academy of Neurology's popular social media channels to stay up-to-date on the latest news and breakthroughs in neurology, and network with peers and neurology thought leaders. Visit AAN.com/Connect.

NEW!

Without Borders – A curated collection featuring advances in global neurology

This *Neurology*® special interest Web site is the go-to source for tracking science and politics of neurology beyond the United States, featuring up-to-the-minute blogs, scholarly perspectives, and academic review of developments and research from *Neurology* journals and other sources. Curated by Gretchen L. Birbeck, MD, MPH.

Expand your world view at Neurology.org/woborders.

Neurology®

Fosphenytoin-induced dyskinesias in an infant with Sturge-Weber syndrome

Drew M. Thodeson, David C. Reiber, Alison M. Dolce, et al.

Neurology 2016;86;1561-1562

DOI 10.1212/WNL.0000000000002595

This information is current as of April 18, 2016

Updated Information & Services	including high resolution figures, can be found at: http://n.neurology.org/content/86/16/1561.full
Supplementary Material	Supplementary material can be found at: http://n.neurology.org/content/suppl/2016/04/16/WNL.0000000000002595.DC1
References	This article cites 1 articles, 0 of which you can access for free at: http://n.neurology.org/content/86/16/1561.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 Movement Disorders http://n.neurology.org/cgi/collection/all_movement_disorders All Pediatric http://n.neurology.org/cgi/collection/all_pediatric Antiepileptic drugs http://n.neurology.org/cgi/collection/antiepileptic_drugs
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 © 2016 American Academy of Neurology. All rights reserved. Print ISSN: 0028-3878. Online ISSN: 1526-632X.