

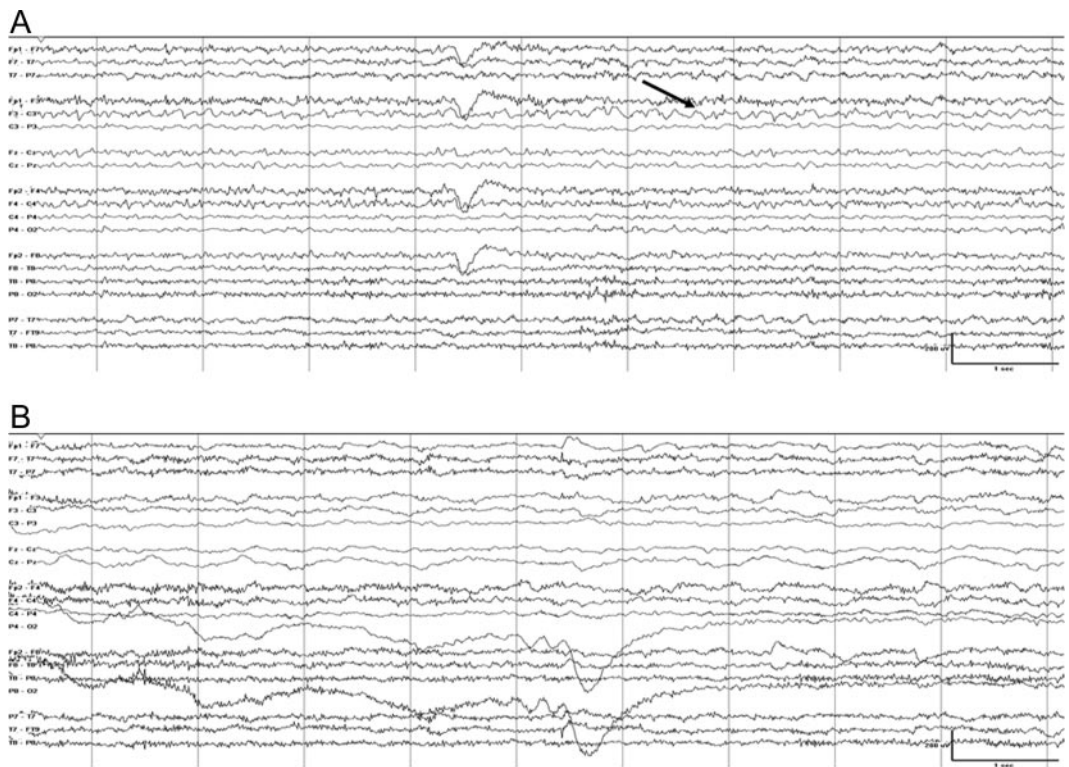
Teaching Video NeuroImages: Complex partial seizure evolving into a psychogenic nonepileptic seizure



David L. Perez, MD
Amit Haldar, MD
Alexander Rotenberg,
MD
Sanjeev V. Kothare, MD

Address correspondence and
reprint requests to Dr. David L.
Perez, Brigham and Women's
Hospital, 75 Francis Street,
Boston, MA 02115
david.l.perez@gmail.com

Figure EEG recording



(A) Left frontal electrographic seizure with right arm clonic activity (see arrow). (B) No further electrographic seizure activity during continued right arm dysrhythmic jerking movements. Sensitivity 10 μ V/mm.

An 11-year-old, right-handed girl was admitted for video-EEG monitoring of nocturnal paroxysms consisting of eye opening, groans, right arm shaking, and altered consciousness (see video on the *Neurology*[®] Web site at www.neurology.org). Ictal video-EEG suggested a left frontal seizure; subsequent behavioral disturbances including dysrhythmic right arm shaking and confusion continued without electrographic correlate (figure). Although epileptic and nonepileptic seizures frequently coexist, this case illustrates the rare direct evolution of a complex partial epileptic seizure into a nonepileptic seizure and highlights the

importance of video-EEG monitoring in discerning epileptic from nonepileptic events.¹ Ictal activation or disinhibition of emotional neural circuitry is one proposed mechanism for this phenomenon.

ACKNOWLEDGMENT

The authors thank Jack Connolly for technical assistance in video preparation.

REFERENCE

1. Devinsky O, Gordon E. Epileptic seizures progressing into nonepileptic conversion seizures. *Neurology* 1998;51:1293–1296.

Supplemental data at
www.neurology.org

From the Department of Neurology (D.L.P., A.H., A.R., S.V.K.), Children's Hospital Boston, Boston; Department of Neurology (D.L.P.), Brigham and Women's Hospital, Boston; and Department of Neurology (D.L.P.), Massachusetts General Hospital, Boston.

Disclosure: The authors report no disclosures.

Neurology[®]

Teaching Video *NeuroImages*: Complex partial seizure evolving into a psychogenic nonepileptic seizure

David L. Perez, Amit Haldar, Alexander Rotenberg, et al.

Neurology 2010;75:e98

DOI 10.1212/WNL.0b013e31820203db

This information is current as of December 13, 2010

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 Copyright © 2010 by AAN Enterprises, Inc.. All rights reserved. Print ISSN: 0028-3878. Online ISSN: 1526-632X.



Updated Information & Services	including high resolution figures, can be found at: http://www.neurology.org/content/75/24/e98.full.html
Supplementary Material	Supplementary material can be found at: http://www.neurology.org/content/suppl/2010/12/11/75.24.e98.DC1
References	This article cites 1 articles, 1 of which you can access for free at: http://www.neurology.org/content/75/24/e98.full.html##ref-list-1
Citations	This article has been cited by 1 HighWire-hosted articles: http://www.neurology.org/content/75/24/e98.full.html##otherarticles
Subspecialty Collections	This article, along with others on similar topics, appears in the following collection(s): Complex partial seizures http://www.neurology.org/cgi/collection/complex_partial_seizures EEG http://www.neurology.org/cgi/collection/eeg_ Epilepsy semiology http://www.neurology.org/cgi/collection/epilepsy_semiology Nonepileptic seizures http://www.neurology.org/cgi/collection/nonepileptic_seizures Video/ EEG use in epilepsy http://www.neurology.org/cgi/collection/video__eeg_use_in_epilepsy
Permissions & Licensing	Information about reproducing this article in parts (figures, tables) or in its entirety can be found online at: http://www.neurology.org/misc/about.xhtml#permissions
Reprints	Information about ordering reprints can be found online: http://www.neurology.org/misc/addir.xhtml#reprintsus

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 Copyright © 2010 by AAN Enterprises, Inc.. All rights reserved. Print ISSN: 0028-3878. Online ISSN: 1526-632X.

