

Teaching Video NeuroImages: A teenager with a rare movement disorder



Rajkumar Agarwal, MD
Lalitha Sivaswamy, MD

Correspondence to
Dr. Agarwal:
ragarwal@dmc.org

Supplemental data at
www.neurology.org

A 17-year-old patient with no medical or psychiatric illness presented with a 4-year history of painless twitching of the toes of his right foot (video on the *Neurology*[®] Web site at www.neurology.org). The movements subsided in deep sleep. Neurologic examination, EEG, and MRI brain/lumbosacral spine were normal. Electrophysiology showed axonal neuropathy of the right deep peroneal nerve.

“Painless legs moving toes,” like the phenomenologically similar “painful legs moving toes,” is hypothesized to be a centrally generated movement disorder.¹ Peripheral neuropathy may modulate afferent input to the spinal cord, which secondarily causes changes in the brainstem and subcortical centers, resulting in abnormal motor patterns.²

AUTHOR CONTRIBUTIONS

Rajkumar Agarwal contributed to drafting and revising the manuscript. Lalitha Sivaswamy contributed to drafting and revising 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.

REFERENCES

1. Kwon SJ, Kim JM, Jeon BS. A case report of painless moving toes syndrome. *J Clin Neurol* 2008;4:33–35.
2. Alvarez MV, Driver-Dunckley EE, Caviness JN, Adler CH, Evidente VG. Case series of painful legs and moving toes: clinical and electrophysiologic observations. *Mov Disord* 2008;23:2062–2066.

Neurology®

Teaching Video *NeuroImages*: A teenager with a rare movement disorder
Rajkumar Agarwal and Lalitha Sivaswamy
Neurology 2013;81:e4
DOI 10.1212/WNL.0b013e318297ee94

This information is current as of July 1, 2013

Updated Information & Services	including high resolution figures, can be found at: http://n.neurology.org/content/81/1/e4.full
Supplementary Material	Supplementary material can be found at: http://n.neurology.org/content/suppl/2013/06/29/81.1.e4.DC1
References	This article cites 2 articles, 0 of which you can access for free at: http://n.neurology.org/content/81/1/e4.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 clinical neurophysiology http://n.neurology.org/cgi/collection/all_clinical_neurophysiology All Movement Disorders http://n.neurology.org/cgi/collection/all_movement_disorders Peripheral neuropathy http://n.neurology.org/cgi/collection/peripheral_neuropathy
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 © 2013 American Academy of Neurology. All rights reserved. Print ISSN: 0028-3878. Online ISSN: 1526-632X.

