Teaching Video *NeuroImages*: Hemichorea-hemiballismus secondary to nonketotic hyperglycemia

Thiago Cardoso Vale,
MD
Denise da Silva Freitas,
MD
Ricardo Oliveira Horta
Maciel, MD
Eduardo Carvalho
Miranda, MD
Francisco Cardoso, MD,
PhD

Correspondence to
Dr. Vale:
thiagocardosovale@hotmail.com

Figure Cranial CT shows hyperdensity of the left caudate and putamen nucleus, findings later confirmed by a T1-weighted brain MRI

A 59-year-old woman presented with a 10-day history of involuntary movements of the right body. She initially complained of continuous, irregularly timed, and unpredictable movements of her right hand that ultimately spread to her entire right upper limb, sometimes having an abrupt violent character (video, segment 1, on the *Neurology*[®] Web site at www.neurology.org). She had poorly controlled type 2 diabetes.¹ Her neurologic examination revealed slight right facial weakness and right hemichorea-hemiballismus. Blood glucose was at 31 mmol/L with no ketone bodies in the urine. Brain imaging revealed spontaneous high signal of the left caudate nucleus and putamen (figure). She received insulin and neuroleptics (risperidone) with rapid improvement (video, segment 2).

AUTHOR CONTRIBUTIONS

All authors equally contributed in the study concept and design, acquisition of data, analysis and interpretation of data, drafting of the manuscript, critical revision of the manuscript for important intellectual content, and administrative, technical, and material support.

STUDY FUNDING

No targeted funding reported.

DISCLOSURE

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

REFERENCE

1. Ondo WG. Hyperglycemic nonketotic states and other metabolic imbalances. *Handb Clin Neurol* 2011;100: 287–291.

Supplemental data at
www.neurology.org

From the Movement Disorders Unit (T.C.V., R.O.H.M.), Neurology Division (D.d.S.F.), and Radiology Division (E.C.M.), University Hospital, and Department of Internal Medicine (F.C.), Faculty of Medicine, Federal University of Minas Gerais (UFMG), Belo Horizonte, Minas Gerais, Brazil.

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Neurology 2013;80:e178

DOI 10.1212/WNL.0b013e31828cf85d

This information is current as of April 15, 2013

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