A 56-year-old woman presented with electroclinical focal seizures in the setting of hyperglycemia (808 mg/dL) and elevated HbA1c of 14.7%. She had varying seizure semiology, consisting of early forced head turn to the left, speech arrest, left facial twitching, and impaired awareness. Her seizures arose from the right frontotemporal area on EEG (figure 1). MRI showed hypointensities in the right prefrontal lobe that resolved after 6 months (figure 2).

Transient T2/fluid-attenuated inversion recovery white matter hypointensities usually involving the parieto-occipital lobe have been described in patients with hyperglycemic seizures.1,2 This underreported sign may point to the diagnosis of acute symptomatic seizures in hyperglycemic patients.

Study funding
No targeted funding reported.
Disclosure
The authors report no disclosures relevant to the manuscript. Go to Neurology.org/N for full disclosures.

References
Teaching NeuroImages: MRI abnormalities in frontal lobe seizures due to nonketotic hyperglycemia
Hsin-Pin Lin, Reordan O. DeJesus and Maria José Bruzzone
Neurology 2020;95;e941-e942 Published Online before print July 8, 2020
DOI 10.1212/WNL.0000000000010109

This information is current as of July 8, 2020

Updated Information & Services
including high resolution figures, can be found at: http://n.neurology.org/content/95/7/e941.full

References
This article cites 2 articles, 0 of which you can access for free at: http://n.neurology.org/content/95/7/e941.full#ref-list-1

Subspecialty Collections
This article, along with others on similar topics, appears in the following collection(s):
All Epilepsy/Seizures http://n.neurology.org/cgi/collection/all_epilepsy_seizures
Complex partial seizures http://n.neurology.org/cgi/collection/complex_partial_seizures
EEG http://n.neurology.org/cgi/collection/eeg_
MRI http://n.neurology.org/cgi/collection/mri
Partial seizures http://n.neurology.org/cgi/collection/partial_seizures

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