## Dyshormia in focal epilepsy

## Disormia em Epilepsia Focal

Mauricio F. Villamar<sup>1</sup>, Frank G. Gilliam<sup>1</sup>

A 37-year-old man was evaluated for recurrent episodes of impaired awareness since childhood. EEG showed right temporal focal dyshormia (Figure 1). MRI revealed a right temporal mass (Figure 2).

Niedermeyer coined the term "dyshormia" to define epileptiform discharges that occur in conjunction with K-complexes on arousal from sleep¹. Although dyshormia

was originally described in generalized epilepsies<sup>1</sup>, unilateral, focal dyshormia is occasionally seen in focal epilepsies<sup>2</sup>.

In focal epilepsies, epileptiform discharges associated with K-complexes are typically ipsilateral to the epileptogenic zone, and are more common in frontal than in temporal lobe epilepsies<sup>2</sup>. Their presence can assist in localization of epileptogenic regions.

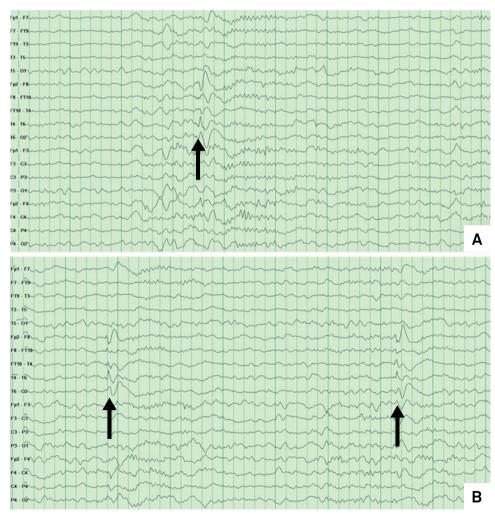


Figure 1. Electroencephalographic abnormalities in focal dyshormia. A) and B) Right temporal epileptiform K-complexes during N2 sleep (arrows).

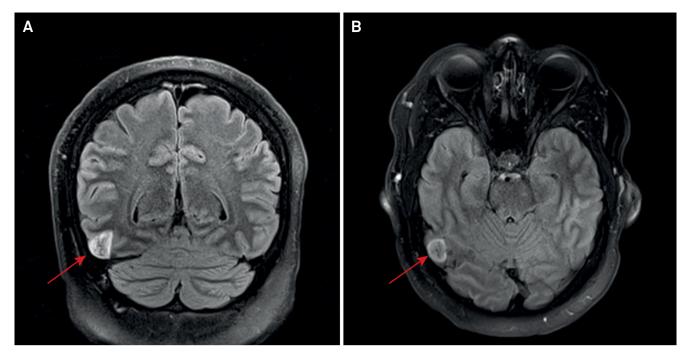
<sup>1</sup>University of Kentucky Department of Neurology, Lexington, KY, USA

Correspondence: Frank G. Gilliam; Department of Neurology, University of Kentucky; 740 S Limestone St.; Kentucky Clinic – J417; Lexington, KY, USA 40536-0298; E-mail: f.gilliam@uky.edu

Conflict of interest: There is no conflict of interest to declare.

Received 22 February 2018; Accepted 25 March 2018.





**Figure 2.** Neuroimaging showing a right temporal mass. A) coronal and B) axial non-contrast T2-FLAIR-weighted brain MRI shows a hyperintense right posterior temporal lobe lesion with heterogeneous internal signal (arrows). Pathology revealed a dysembryoplastic neuroepithelial tumor, WHO grade I.

## References

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