

Teaching Video NeuroImage: Neonate With Complex Movement Disorder and Seizures

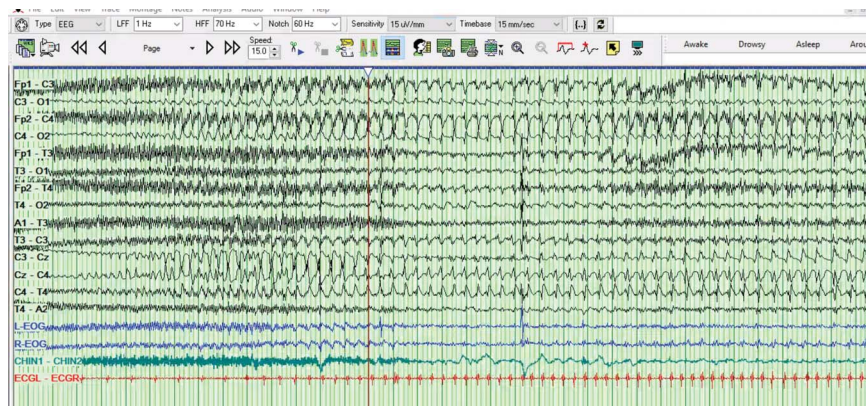
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Figure EEG Showing Patient's Seizure Characterized Electrographically by Rhythmic Low-Voltage Alpha and Beta Frequency Activity in the Central Head Region With Evolution to Bilateral 2-Hz Diffuse Spikes



Clinically, the seizure was associated with apnea and bradycardia. Her interictal EEG was normal.

A term female infant born after uncomplicated pregnancy presented on day of life 1 with near continuous abnormal movements (Video 1) and episodes of apnea concerning for seizures. Initial EEG captured movements, which were nonepileptic, and interictal EEG was normal. Repeat EEG several days later showed seizures characterized by apnea and bradycardia (Figure). Genetic testing revealed a de novo heterozygous pathogenic variant in *SCN8A* (c.3979A > G p.Ile1327Val), classically associated with epileptic encephalopathy. At a 1-year follow-up, movements had decreased on oxcarbazepine and diazepam, but she had daily seizures and severe developmental delay. This case highlights the phenotypic variability of pathogenic variants in *SCN8A*,¹ including both neonatal seizures and movement disorders.²

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Appendix Authors

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Krista Grande, MD	Department of Neurology, Cincinnati Children's Hospital Medical Center, Cincinnati, OH	Drafting/revision of the manuscript for content, including medical writing for content
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Appendix (continued)

Name	Location	Contribution
Mark Schapiro, MD	Department of Neurology, Cincinnati Children's Hospital Medical Center, Cincinnati, OH	Drafting/revision of the manuscript for content, including medical writing for content

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