

Teaching NeuroImage: Drug Refractory Epilepsy With Developmental Dysarthria Due to Bilateral Perisylvian Polymicrogyria

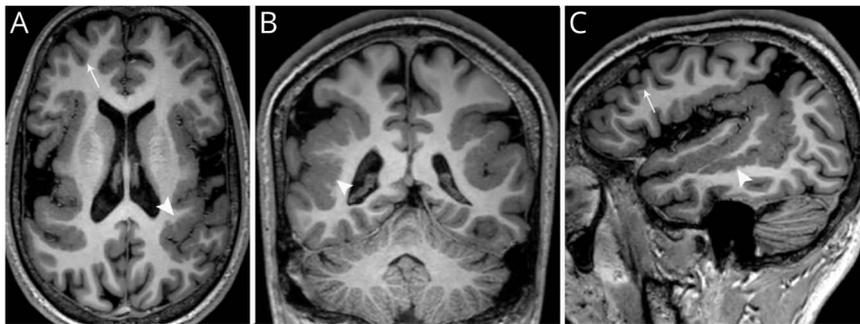
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Figure 1 Axial (A), Coronal (B), and Sagittal (C) T1-Weighted Images Show Undulations and Irregularity of the Cortical Surface Along Bilateral Sylvian Fissures and Superior Temporal Sulci



Apparent thickening of polymicrogyric cortex and stippling and irregularity at the gray-white matter junction (arrowheads) are also seen compared with frontal polar gray matter (arrows).

A 15-year-old boy presented with 5 years of refractory focal seizures with 4–6 episodes per day. The seizure semiology was described as numbness of the left half of the body followed by tonic posturing and head version to left with loss of awareness lasting for 30 seconds. Additional symptoms included cognitive impairment with delayed and dysarthric speech. Neuropsychological assessment revealed impaired intellectual and cognitive ability. MRI of the brain demonstrated bilateral perisylvian polymicrogyria (Figure, A–C). BPP is a cortical development malformation¹ characterized by widened Sylvian fissures with an increased number of abnormally small gyri and shallow sulci. Patients present with dysarthria and refractory seizures.²

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Disclosure

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Name	Location	Contribution
Manda Goveen, MD	Department of Neurology, All India Institute of Medical Sciences, New Delhi	Major role in the acquisition of data and study concept or design
Ayush Agarwal, DM	Department of Neurology, All India Institute of Medical Sciences, New Delhi	Drafting/revision of the manuscript for content, including medical writing for content; major role in the acquisition of data; study concept or design; and analysis or interpretation of data
Ajay Garg, MD	Department of Neuroradiology, All India Institute of Medical Sciences, New Delhi	Major role in the acquisition of data and analysis or interpretation of data

Appendix (continued)

Name	Location	Contribution
Achal Kumar Srivastava, DM	Department of Neurology, All India Institute of Medical Sciences, New Delhi	Drafting/revision of the manuscript for content, including medical writing for content; major role in the acquisition of data; and study concept or design

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2. Barkovich AJ, Hevner R, Guerrini R. Syndromes of bilateral symmetrical poly-microgyria. *AJNR Am J Neuroradiol*. 1999;20(10):1814-1821.

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