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

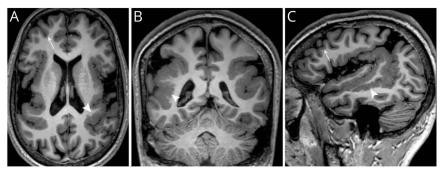
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**Figure 1** Axial (A), Coronal (B), and Sagittal (C) T1-Weighted Images Show Undulations and Irregularity of the Cortical Surface Along Bilateral Sylvian Fissures and Superior Temporal Sulci



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. Neuro-psychological assessment revealed impaired intellectual and cognitive ability. MRI of the brain demonstrated bilateral perisylvian polymicrogyria (Figure, A–C). BPP is a cortical development malformation characterized by widened Sylvian fissures with an increased number of abnormally small gyri and shallow sulci. Patients present with dysarthria and refractory seizures.<sup>2</sup>

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

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