A 56-year-old woman presented with involuntary left arm and leg movements. MRI with gadolinium revealed a heterogeneously enhancing, extra-axial mass at the right frontoparietal convexity, causing mass effect, vasogenic edema, and dural thickening (figure). Intraoperatively the mass was noted to invade nearby cortex, sulci, and the superior sagittal sinus. Meningioma was suspected. Pathology revealed a lymphohistiocytic infiltrate with histiocytes positive for CD 68 and S100 demonstrating emperipolesis (lymphocytophagocytosis). The patient had no CNS recurrence or systemic involvement after 12 months of follow-up.

Rosai-Dorfman, sinus histiocytosis with massive lymphadenopathy, is a rare disease of the lymphoid tissues with systemic involvement in up to 25% of cases. Neurologic involvement is rare, occurring in 4% of patients in one series. There are approximately 80 cases of CNS involvement in the literature, and the majority of these cases are brain lesions presenting with focal deficits, seizures, or headaches due to mass effects.1

The typical lesions are dural-based with a predilection for the skull base. Isolated, intracranial Rosai-Dorfman disease can mimic a meningioma.2

REFERENCES
Teaching NeuroImage: Isolated intracranial Rosai-Dorfman disease mimicking a meningioma
Brett J. Theeler, Joren B. Keylock and Stephen M. Yoest
Neurology 2008;70:e42
DOI 10.1212/01.wnl.0000306699.54311.2c

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