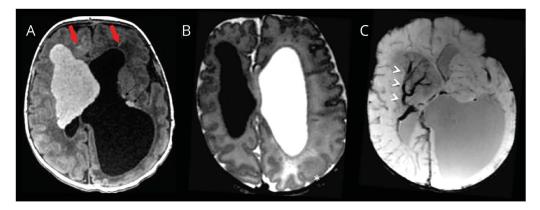
Atypical subependymal giant cell astrocytoma and neonatal tuberous sclerosis

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Neurology® 2018;90:570-571. doi:10.1212/WNL.0000000000005181

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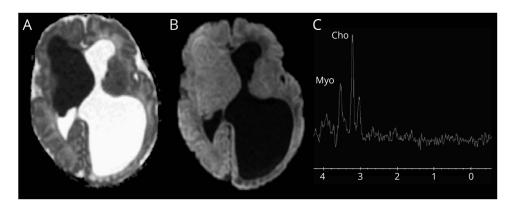
Figure 1 Brain MRI



Axial MRI of tuberous sclerosis brain findings. Subependymal giant astrocytoma: (A) T1-hyperintese; (B) T2-hypointense; (C) susceptibility-weighted imaging–exuberant venous drainage (arrowheads). Subependymal nodules: (A) T1-hyperintese (black arrows), radial bands (red arrows); and (B) cortical tubers (asterisk).

A 9-day-old girl had, on prenatal ultrasound, brain and cardiac lesions suspicious for tuberous sclerosis. Brain MRI demonstrated a large intraventricular and intraparenchymal mass centered on the foramen of Monro, which had unusual imaging findings: a homogeneous T1-hyperintense and T2-hypointense signal (figure 1, A and B) related to scarce myelination; remarkable venous drainage on susceptibility-weighted imaging (figure 1C); and apparent diffusion coefficient hypointensity, corresponding to blackout T2 effect (figure 2, A and B).

Figure 2 Brain MRI



Subependymal giant astrocytoma: (A) apparent diffusion coefficient hypointense; (B) diffusion-weighted imaging isointense related to blackout T2 effect; (C) spectroscopy (point resolved spectroscopy echo time 35) study shows choline (Cho) 3.2 ppm and myo-lnositol (Myo) 3.5 ppm peaks.

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Spectroscopy showed increased choline and myo-Inositol peaks (figure 2C). These findings are consistent with neonatal subependymal giant astrocytoma. Subependymal nodules, cortical tubers, and radial bands were also atypically T1-hyperintense and T2-hypointense (figure 1, A and B).

Author contributions

Laiz Laura de Godoy: study concept and design. César Augusto Pinheiro Ferreira Alves: study concept and design, critical revision of manuscript for intellectual content.

Study funding

No targeted funding reported.

Disclosure

The authors report no disclosures relevant to the manuscript. Go to Neurology.org/N for full disclosures.

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