Intracranial capillary hemangioma misdiagnosed as a meningioma

Hemangioma capilar intracraniano assemelhando-se a um meningioma

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A 10-year-old boy was admitted to the hospital complaining of headache associated with intermittent vomiting. Non-contrast cranial computed tomography demonstrated a 4.5 x 4.0 cm well-circumscribed solid lesion in the left parietal region (Figure 1). Magnetic resonance imaging of the brain showed an extra-axial parietal dural-based lesion, with contrast enhancement on T1-weighted images (Figure 2). Additionally, a dural tail sign was evident. Neuroimaging findings were consistent with meningioma but the patient was diagnosed with capillary hemangioma by pathological examination (Figure 3). Therefore, this lesion should be considered in the preoperative diagnosis of extra-axial, avidly enhancing mass lesions with a dural tail sign, especially in children1,2,3.

Figure 1. (A) Tridimensional reformatted images from noncontrast CT demonstrate left parietal bone erosion. (B) Noncontrast CT, axial image, disclose and iso / hyperdense left parietal lesion.

Figure 2. Coronal T1-weighted magnetic resonance image shows a contrast-enhancing extra-axial tumor with a broad dural base in the left parietal region. Note the dural tail sign (arrow).

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Figure 3. (A) Microscopic findings of the tumor consisted of poorly-defined capillary channels lined by a single layer of endothelial cells without nuclear atypia (Hematoxylin & eosin; x250). (B) Vascular structures and endothelial lining cells of this tumor show strong expression of vascular markers (CD31 immunostaining; x200).

References

