Radio clinico histological presentation of intracranial dural chondroma

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Description

We report a challenging diagnosis and the successful management of a rare case of intracranial dural chondroma in a 19-year-old student. He was admitted for secondary epilepsy with behavioral and mood disorder without neurological deficit. His past medical history was unremarkable. The patient was initially taken, by his parents, to the psychiatry department, where medical treatment was prescribed. The cerebral MRI was done, and based on the extra-axial, left fronto-parietal lesion found. Plus, the nonspecific aspect of the clinical findings, the radiological investigations did not help for a straight forward diagnosis orientation. The patient underwent surgery and promptly recovered after the gross total resection of the tumor.

Intracranial chondroma of dural origin is a rare (incidence less than 0.5% of all intracranial tumors) and even exceptional type of chondromas. The first case reported by Hirschfeld in 1851. Chondromas are benign tumors composed of mature hyaline cartilage. The clinical symptoms are variable and due to mass effect depending on the size and location of the lesion (Headache 52.5%, Diplopia 11.9%). It has been reported more frequently at the skull base, less regularly at the falx cerebri, and exceptionally of the dura, when it happened to be intracranial [1,2]. CT scan shows a cerebral tumor with calcification and bone erosion due to the tumoral infiltration. Moreover on MRI, the tumor parenchyma appeared heterogeneously hyposignal on T1WI and hypersignal or mixed hypersignal and hyposignal on
T2WI, inhomogeneous enhancement on postcontrast (Figure 1). The differential diagnosis with other dural origin tumors like meningioma may not be certain before surgery. The diagnosis confirmation requires a histopathological finding (Figure 1D).

References
