

Meningioma en plaque of the convexity

Meningioma en plaque (MEP) comprise 2.5% of all **meningiomas**. While they typically arise in the **sphenoid wing**, convexity MEP are comparatively rare and are often confused with meningeal sarcoidosis, **osteoma**, **tuberculoma**, or **fibrous dysplasia**, with very little information published in the **literature**.

Yao et al. conducted a literature review on **PubMed** of English-only articles using a keyword search. All studies that described reports of convexity MEP were reviewed for patient demographics, presenting symptoms, radiological reports, surgical management, recurrence rates, histopathological presentation, post-operative complications, and follow-up. This resulted in 12 papers comprising 22 cases of convexity MEP. Seventeen (77%) of the 22 patients were female with an average age of 53.2 years. Initial presenting symptoms included headache in 12/20 (60%), hemiparesis in 5/20 (25%), and visual symptoms in 1/20 (5%). Of the 14 patients who underwent surgical resection, only four were reported as gross total resection. Twelve reports had associated pathology reports, with all 12 tumors graded as World Health Organization Grade I. Convexity MEP, while rare, present a challenge with regard to correct diagnosis and subsequent resection. The easier accessibility of these meningiomas predicts higher surgical success rates and incidence of total resection, though care must be taken to ensure gross total removal of tumor, dural attachments, and any overlying hyperostotic bone. Though hyperostosis is frequently observed with this variant of meningioma, it is neither exclusive nor wholly indicative of MEP. Due to its rarity in both clinical practice and the literature, further studies are warranted to identify modern imaging means to correctly diagnose this condition ¹⁾.

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Yao A, Sarkiss CA, Lee J, Zarzour HK, Shrivastava RK. Surgical limitations in convexity meningiomas en-plaque: Is radical resection necessary? J Clin Neurosci. 2016 May;27:28-33. doi: 10.1016/j.jocn.2015.06.033. Epub 2016 Jan 6. Review. PubMed PMID: 26778515.

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