ISSN: 1023 - 1986 eISSN: 2408 - 8366

CLINICAL IMAGE

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Received: 11.08.2024

DOI: https://doi.org/10.3329/bjm.v35i3.76176

Citation: Rahman A. Clinical image. Bangladesh J Medicine 2024; 35: 221-222

A 62-year-old female with no medical history, presented 3 months' ago headaches resistant to usual analgesics with behavior disorders. Symptoms worsened with an onset of vomiting, without sensory-motor deficit or seizures. She undergoes a contrast enhanced MRI (A) and FLAIR (B). Ans the following questions.

Questions:

- 1. Describe the film (3 important features)
- 2. What is the most likely diagnosis
- 3. What are the treatment modalities

Answers:

- a) Homogeneously enhanced mass within the right frontoparietal region.
 - b) A dural tail sign

 c) Compression of the left lateral ventricle and midline shift to the left

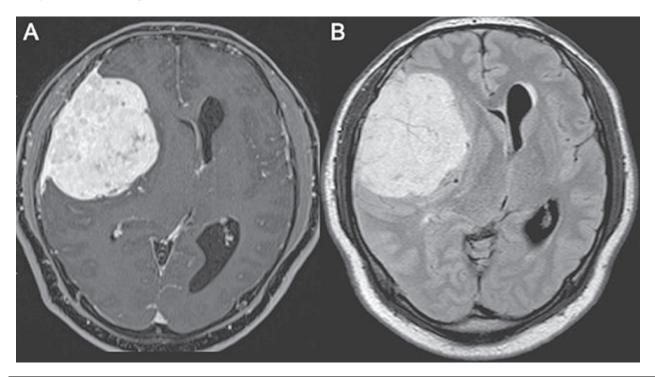
Accepted: 22.08.2024

- 2. Meningioma in the right Frontoparietal lobe
- 3. surgical resection of the tumor

Overview

Meningiomas are more frequent in women, with a ratio of 2:1 intracranial and 4:1 in the spine. Atypical and malignant meningiomas are somewhat more prevalent in men. They are uncommon in persons under the age of 40 and should raise the possibility of neurofibromatosis type 2 when seen in young patients².

MRI with gadolinium is the best option for diagnosing meningioma. Meningioma appears on MRI as a



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homogenous, well-defined, extraaxial mass with a large dural base. Other MRI abnormalities indicative of meningioma include CSF vascular cleft sign, dural tail sign, and non-enhancing central necrosis or calcification. Meningiomas may seem different on T1 and T2-weighted sequences but share a few specific features.²

T1-weighted sequence shows isointensity to modest hypointensity compared to grey matter.

Extensive dural thickening in meningioma plaque. Microcystic meningiomas have uniformly low signal intensity. T2-weighted sequence: isointensity to modest hyperintensity compared to grey matter. Calcification appears as patches with low signal intensity. High signal intensity in microcystic meningiomas.

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