

# Trans-osseous low grade meningioma presenting as a hard frontal swelling

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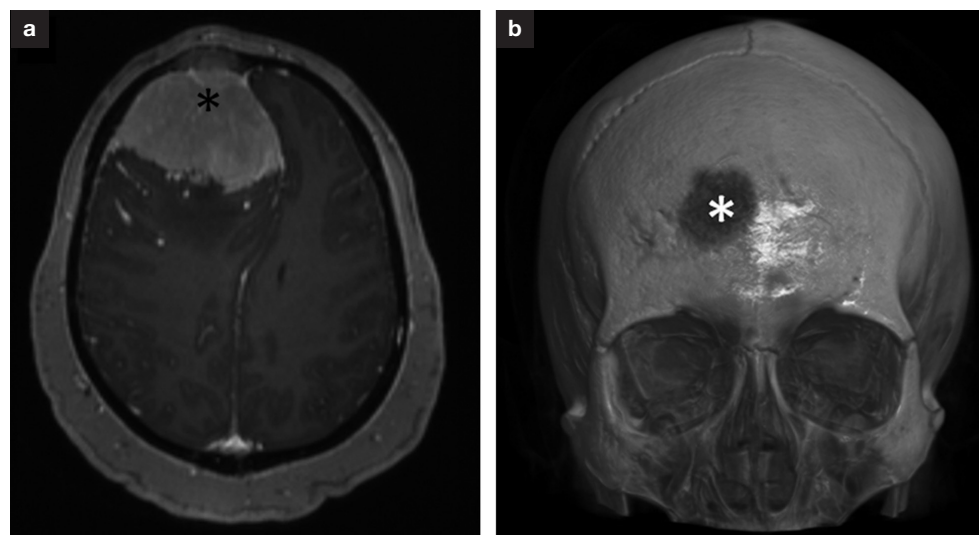
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A 43-year-old woman presented with a complaint of hard frontal swelling and progressive headache. On physical examination, there was a hard mass localised in the right anterior frontal region of the scalp. There was no history of cranial trauma. The initial diagnosis was a calvarial neoplasm. Cranial magnetic resonance imaging revealed a trans-calvarial mass in the left frontal region (Figure 1a). Computed tomography demonstrated a hyperdense mass with both intracranial and extracranial components (Figure 1b). The available spectroscopy and dynamic susceptibility contrast perfusion parameters supported meningioma. The trans-calvarial lesion was surgically removed, and atypical meningioma (WHO grade 2) was diagnosed via histopathology. During follow up, the patient was living well and there had been no neoplastic recurrence after surgery.

Large meningiomas commonly present with symptoms such as headache, paresis and mental disorder (Moradi et al, 2008; Li et al, 2012). A benign meningioma presenting as a frontal mass is very rare.



**Figure 1.** a. Post-contrast T1-weighted magnetic resonance image reveals a homogenous enhanced trans-calvarial mass (asterisks) in the left frontal region. b. Bone surface three-dimensional reformat anterior view computed tomography also shows osseous lesion (white asterisk) in the right anterior frontal region.

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