

Brain Tumor Classification Report

Name: Bahubali

Age: 46

Gender: Male

Symptoms: Headache

Prediction: Meningioma Tumor

Description:

The MRI scan shows an abnormal mass located near the midline of the brain, which appears to be a well-defined, extra-axial lesion with significant contrast enhancement. This is consistent with the diagnosis of a meningioma tumor.

Analysis of the abnormality and its impact:

- The tumor is causing a mass effect, compressing adjacent brain structures.
- This compression can lead to increased intracranial pressure, which may manifest as headaches, as reported by the patient.
- Depending on the tumor's location and size, it may also cause neurological deficits or seizures.
- The lesion's location near the midline could potentially affect the motor or sensory pathways, leading to clinical deterioration if untreated.

Final diagnosis:

The patient has a meningioma tumor, which is likely responsible for the headaches due to increased intracranial pressure and local brain compression.

Meningiomas are typically benign, slow-growing tumors that arise from the meninges, the protective membranes covering the brain and spinal cord. They are one of the most common primary brain tumors in adults. Although usually noncancerous, their growth can cause symptoms by compressing adjacent brain tissue. Symptoms often include headaches, seizures, and neurological deficits depending on tumor size and location. Diagnosis is confirmed by imaging, primarily MRI, showing a well-circumscribed, enhancing mass usually attached to the dura.

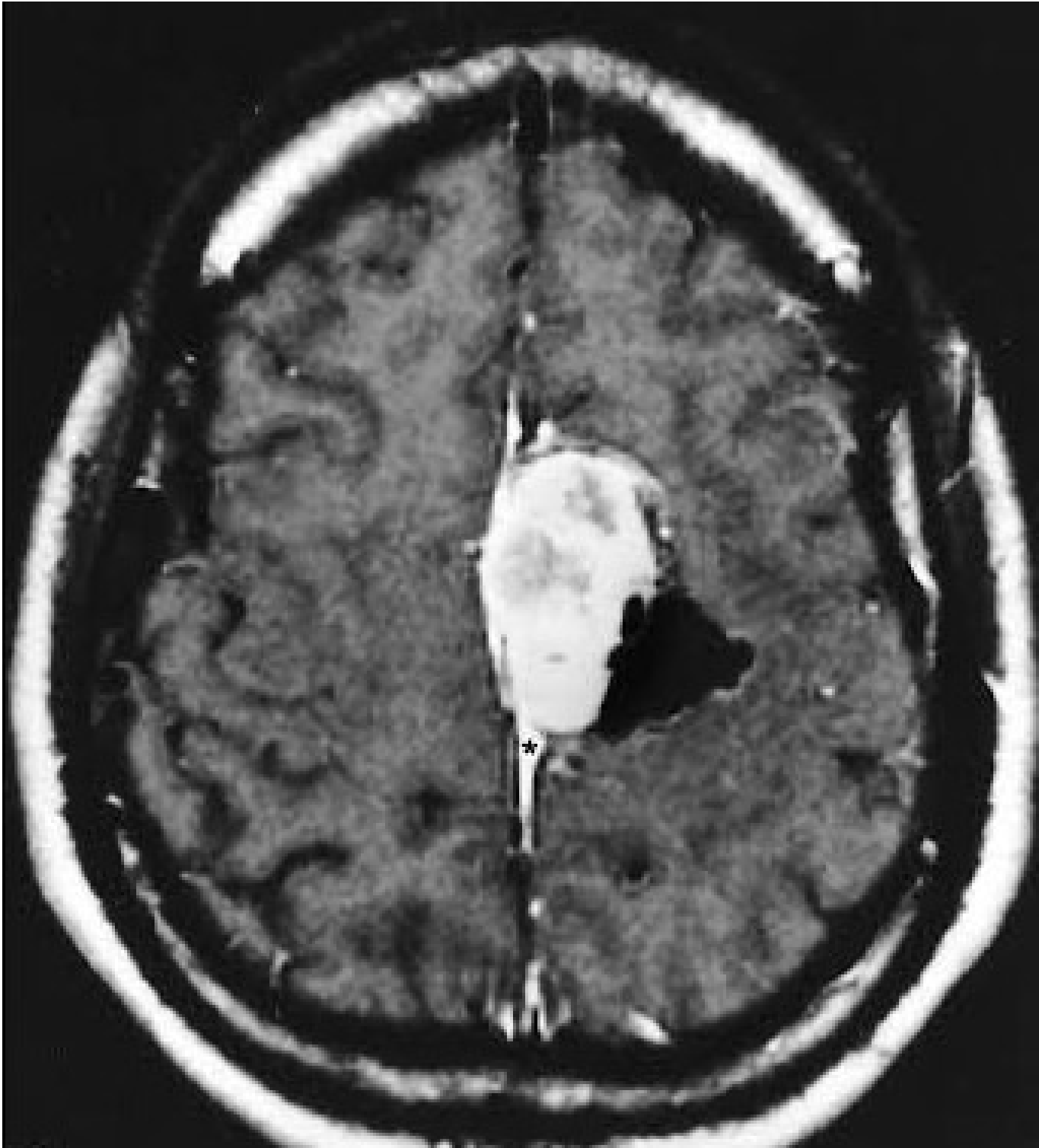
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Precautions:

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- Regular monitoring with follow-up MRI scans to assess tumor growth.
- Avoid activities that significantly increase intracranial pressure (e.g., heavy lifting, straining).
- Manage symptoms such as headaches with appropriate medication as prescribed.
- Seek immediate medical attention if new neurological symptoms develop (e.g., weakness, vision changes, seizures).
- Consult a neurosurgeon or neuro-oncologist for evaluation of potential surgical removal or other treatment options.
- Maintain a healthy lifestyle, including adequate hydration, balanced diet, and stress management to support overall brain health.

Original Image



Grad-CAM Image

