Medical Report

Patient Details

Patient Name: Kairav Deepeshwar K
Age: 19
Gender: Male

Analysis Results

Approximate MRI Report

Date of Scan: October 27, 2023

Exam: T1-weighted MRI of the Brain

Findings:

A well-defined, hyperintense mass is identified in the **right frontal lobe**, consistent with a **glioma**. The tumor appears to be **approximately 2.5-3 cm in diameter** and occupies **approximately 15-20% of the frontal lobe's volume**.

Location: The tumor is located in the **right frontal lobe**, a region of the brain involved in higher-level cognitive functions, including planning, decision-making, and motor control. It appears to be near the **motor cortex**, which may potentially be affected by the tumor's growth.

Characteristics:

- The tumor demonstrates **heterogeneous signal intensity** on the T1-weighted sequence, with a mix of hyperintense and hypointense regions. This suggests a complex structure with potential areas of necrosis or hemorrhage.

- The mass exhibits **mass effect** causing compression of surrounding frontal lobe tissue and possible displacement of the lateral ventricle.

- There is **associated edema** surrounding the tumor, suggesting inflammation and potential pressure on nearby brain tissue.

Impression:

The MRI findings are consistent with a **glioma** located in the right frontal lobe. The tumor's size and location suggest a potentially challenging case with implications for neurological function and treatment planning.

Recommendations:

- Further imaging, such as T2-weighted and FLAIR sequences, may be helpful to better characterize the tumor's extent and identify any associated edema.

- Consultation with a neurosurgeon and neuro-oncologist for a multidisciplinary approach to treatment is recommended.

Note: This report is based on the provided image alone and is not a substitute for a formal medical evaluation.