

Medical Imaging Report

Patient Name: Mr. Peter David

Patient ID: PA-1058

Date of Scan: 10/05/2021

Referring Physician: Dr. Stephan Miller

Scan Modality: Magnetic Resonance Imaging (MRI)

Region of Interest: Brain

Clinical Details

The patient is a 45-year-old male presenting with the following symptoms:

- Persistent headaches for the past two months, primarily localized to the frontal region, worsening in the mornings.
 - Recent onset of seizures, described as generalized tonic-clonic episodes, occurring twice in the past three weeks.
 - Progressive weakness in the left upper and lower extremities over the last month, with associated difficulty in coordination and gait imbalance.
 - Reports of occasional blurred vision and episodes of nausea and vomiting.
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Imaging Findings

1. A focal lesion is identified in the right hemisphere, frontal, parietal, or temporal lobe, showing contrast enhancement.
 - The lesion is hyperintense on T1-weighted imaging and shows surrounding edema, indicative of a potential pathological process.
 2. The lesion's size, borders, and contrast uptake are suggestive of an active abnormality.
 3. Adjacent brain tissue demonstrates signs of mass effect.
 4. No evidence of hemorrhage, hydrocephalus, or significant atrophy is noted.
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Differential Diagnosis

The findings are consistent with a range of possible diagnoses, including:

- Primary brain tumor (e.g., glioblastoma, meningioma).

- Secondary metastasis.
- Infective or inflammatory lesions (e.g., abscess).

Further diagnostic workup is recommended to narrow the differential diagnosis.

Recommendations

1. **Further Imaging:** Obtain additional imaging sequences (e.g., diffusion-weighted imaging, MR spectroscopy, or perfusion studies) to better characterize the lesion.
2. **Biopsy:** Consider histopathological evaluation via biopsy for definitive diagnosis if clinically indicated.
3. **Consultations:** Referral to a neurologist or oncologist for comprehensive evaluation.
4. **Laboratory Workup:** Assess for markers of infection, inflammation, or malignancy as appropriate.

Radiologist's Name: Mr. Willion D. C

Signature: Mr. Willion D. C

Date: 15/05/2021