

NEUROIMAGING ANALYSIS REPORT

AI-Assisted Brain Tumor Detection and Analysis

Report ID:	RPT-PT001-20250825
Generated On:	August 25, 2025 at 11:28:25
System:	AI Brain Tumor Detection System v2.0
Status:	PRELIMINARY - REQUIRES RADIOLOGIST REVIEW

PATIENT INFORMATION

Patient ID:	PT001
Name:	John Doe
Age:	45 years
Gender:	Male
Scan Date:	2024-01-15
Referring Physician:	Dr. Smith
Institution:	City Medical Center

CLINICAL SUMMARY

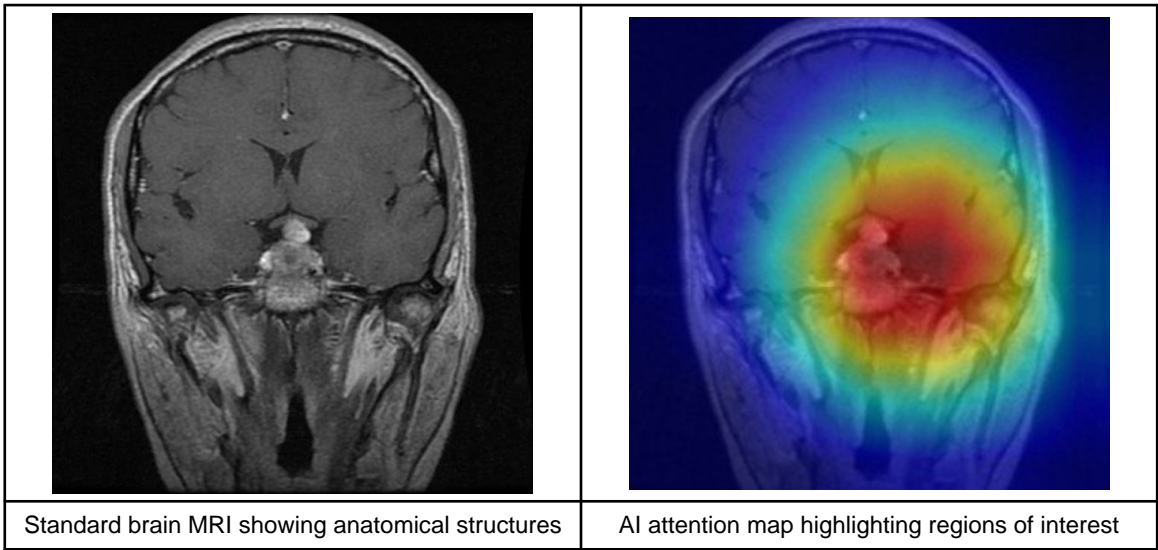
Primary Finding: Glioblastoma
Confidence Level: 89.0%
Location: Left frontal lobe
Estimated Size: Approximately 3.2cm x 2.8cm
Severity Assessment: High

Key Characteristics:

- Irregular borders
- Heterogeneous enhancement pattern
- Surrounding edema present
- Mass effect on adjacent structures

IMAGING STUDIES

Original MRI Scan	GradCAM Visualization
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AI RADIOLOGICAL INTERPRETATION

AI analysis unavailable. Manual interpretation required.

TECHNICAL DETAILS

AI Model Confidence:	89.0%
Processing Method:	Deep Learning + GradCAM Visualization
LLM Analysis Status:	fallback
Analysis Timestamp:	2025-08-25T11:28:25.452610
Tokens Used:	0

RECOMMENDATIONS

- URGENT: High-priority finding requires immediate medical attention
- Urgent radiologist review required for confirmation of AI findings
- Clinical correlation with patient symptoms and history recommended
- Consider additional imaging modalities (contrast-enhanced MRI, CT, PET) as clinically indicated
- Multidisciplinary team consultation for treatment planning
- Follow-up imaging as per institutional protocols

IMPORTANT MEDICAL DISCLAIMER:
This report is generated by an AI system and is intended for use by qualified medical professionals only. The findings presented here are preliminary and require verification by a licensed radiologist. This AI analysis should not be used as the sole basis for clinical decision-making. All results must be interpreted in conjunction with clinical findings and patient history.

Generated by AI Brain Tumor Detection System