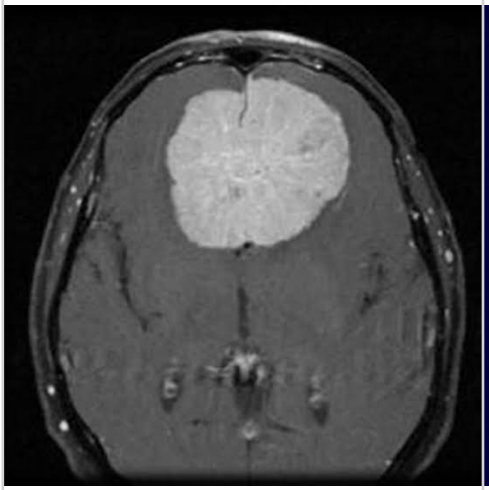
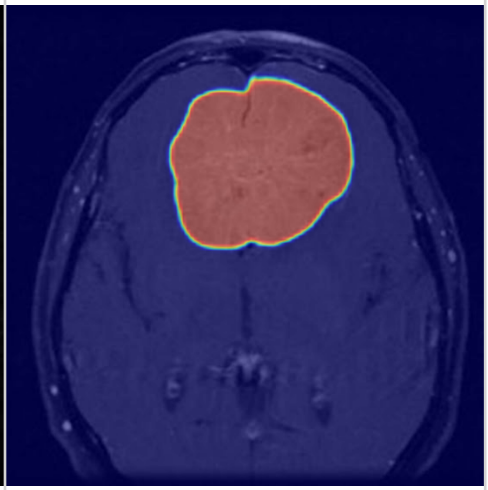
TUMORX

AI-Powered Brain Tumor Detection & Analysis

Report Generated:	August 20, 2025 at 17:25:07
Analysis Method:	Deep Learning Neural Networks
Model Version:	TumorX v2.1.0
Report ID:	TX-20250820172507

MRI SCAN ANALYSIS

Original MRI Scan	AI Segmentation Analysis
	

AI DIAGNOSTIC RESULTS

Classification Result	Meningioma Tumor
Confidence Level	98.15%
Risk Assessment	**HIGH PRIORITY - Requires medical attention**

DETAILED MEDICAL INFORMATION

About Meningioma Tumor:

Meningiomas are tumors that arise from the meninges, the protective layers surrounding the brain and spinal cord. Most are benign (non-cancerous).

Common Types/Subtypes:

- Grade I (Benign) - 90% of cases
- Grade II (Atypical) - 7-8% of cases
- Grade III (Malignant) - 1-3% of cases

Common Symptoms:

- Headaches
- Vision problems
- Hearing loss or ringing in ears
- Memory loss
- Weakness in arms or legs
- Seizures
- Changes in smell

Treatment Options:

- Observation (for small, asymptomatic tumors)
- Surgical removal
- Stereotactic radiosurgery
- Conventional radiation therapy
- Hormone therapy (in some cases)

Prognosis:

Generally excellent for Grade I meningiomas. 5-year survival rate is over 95% for benign meningiomas.

Prevalence:

Most common primary brain tumor, representing about 36% of all brain tumors

BRAIN TUMOR REFERENCE GUIDE

Complete overview of brain tumor types analyzed by TumorX AI system:

Glioma Tumor

Gliomas are tumors that arise from glial cells in the brain and spinal cord. They are the most common type of primary brain tumor in adults.

Prevalence: Approximately 3-5 cases per 100,000 people annually

Meningioma Tumor

Meningiomas are tumors that arise from the meninges, the protective layers surrounding the brain and spinal cord. Most are benign (non-cancerous).

Prevalence: Most common primary brain tumor, representing about 36% of all brain tumors

Pituitary Tumor

Pituitary tumors are growths in the pituitary gland, a small organ that controls several other hormone-producing glands. Most are benign adenomas.

Prevalence: About 15% of all brain tumors. Affects approximately 1 in 1,000 people

MEDICAL DISCLAIMERS & IMPORTANT INFORMATION

AI Technology Limitations: This analysis is performed by artificial intelligence and machine learning algorithms. While highly accurate, AI systems can make errors and should never replace professional medical judgment.

Not a Medical Diagnosis: This report provides AI-assisted analysis for informational purposes only. It does not constitute a medical diagnosis, treatment recommendation, or medical advice.

Professional Medical Consultation Required: Any abnormal findings require immediate consultation with qualified medical professionals including radiologists, neurologists, or neurosurgeons.

Imaging Limitations: MRI interpretation depends on image quality, patient positioning, contrast usage, and scanning parameters. Some conditions may not be visible on MRI.

Emergency Situations: If experiencing severe headaches, seizures, vision changes, or neurological symptoms, seek immediate medical attention regardless of this AI analysis.

Second Opinion Recommended: For any positive findings, obtain a second opinion from qualified medical professionals and consider additional diagnostic tests.

Data Privacy: Medical imaging data processed by this system is handled according to healthcare privacy regulations. No personal health information is stored permanently.

Regulatory Status: This AI system is for research and educational purposes. It is not FDA-approved for clinical diagnosis.
