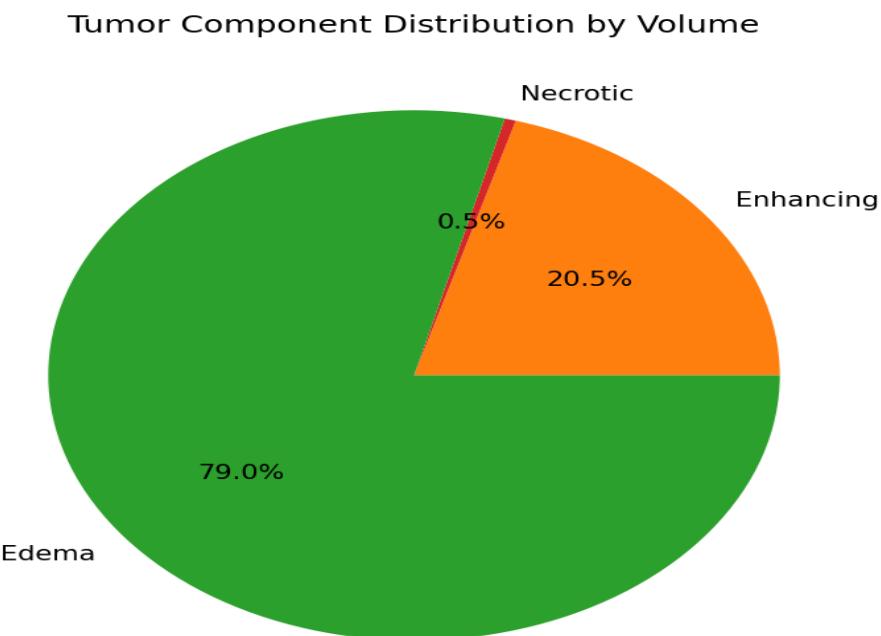


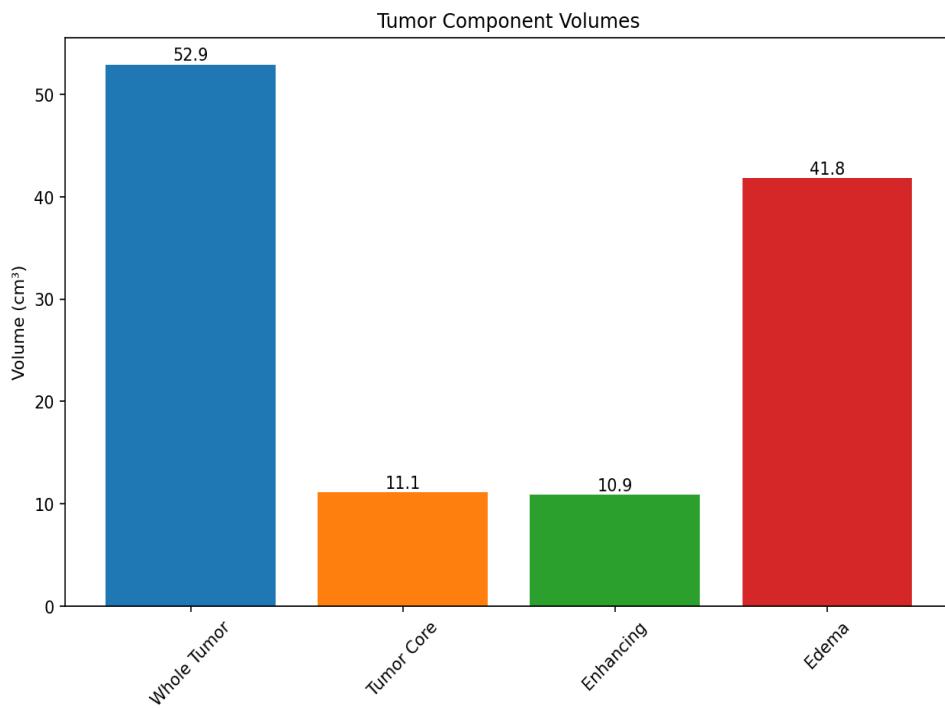
Brain Tumor Analysis Report

Patient Information	
Report Date	2025-09-09T19:11:39.442024
Case ID	case_f769ffd7-cbff-4921-b288-180495a69c60

Clinical Features Summary	
Whole Tumor Volume	52.92 cm ³
Tumor Size Category	very_large (>15 cm ³)
Location	right - central
Enhancement Pattern	moderate (10-30%)
Has Enhancement	yes
Has Necrosis	yes
Has Edema	yes

Tumor Analysis Visualizations





AI-Generated Clinical Analysis

EXECUTIVE SUMMARY This report presents automated brain tumor segmentation analysis results. The AI-powered analysis has identified and quantified various tumor components including enhancing regions, necrotic areas, and peritumoral edema.

TUMOR CHARACTERISTICS The segmentation analysis has successfully identified the tumor boundaries and characterized different tissue types within the lesion. Detailed morphological analysis shows the spatial distribution and volumetric measurements of tumor components.

QUANTITATIVE ANALYSIS Volume and diameter measurements have been calculated for all tumor subregions. These measurements provide objective metrics for monitoring tumor progression and treatment response assessment.

CLINICAL SIGNIFICANCE The quantitative features extracted from the segmentation provide valuable information for treatment planning and prognosis assessment. The detailed measurements can aid in clinical decision-making.

RECOMMENDATIONS 1. Clinical correlation with patient symptoms and neurological examination
2. Multidisciplinary team review for treatment planning
3. Follow-up imaging as clinically indicated
4. Consider additional advanced imaging techniques if needed

TECHNICAL NOTES This analysis was performed using AI-assisted segmentation algorithms. Results should be interpreted in conjunction with clinical findings and expert radiological review.

Detailed Quantitative Measurements

Measurement	Value	Unit
Whole Tumor Volume	52.92	cm ³
Whole Tumor Diameter	62.0	mm
Tumor Core Volume	11.12	cm ³
Enhancing Volume	10.86	cm ³
Necrotic Volume	0.26	cm ³
Edema Volume	41.80	cm ³
Enhancement Percentage	20.5	%
Necrosis Percentage	0.5	%
Edema Percentage	79.0	%
Voxel Spacing	1.0x1.0x1.0	mm
Centroid Coordinates	(162, 106, 91)	voxels

Report generated by AI-Assisted Brain Tumor Analysis System

Model: Qwen/Qwen3-Coder-30B-A3B-Instruct

Generated on: September 09, 2025 at 07:11 PM

This report is for research purposes and should be validated by qualified medical professionals.