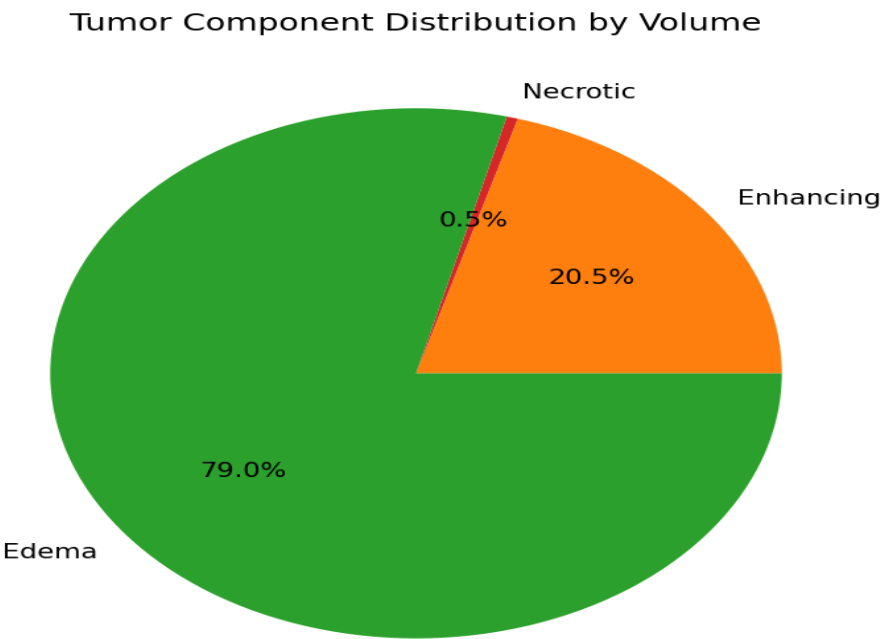


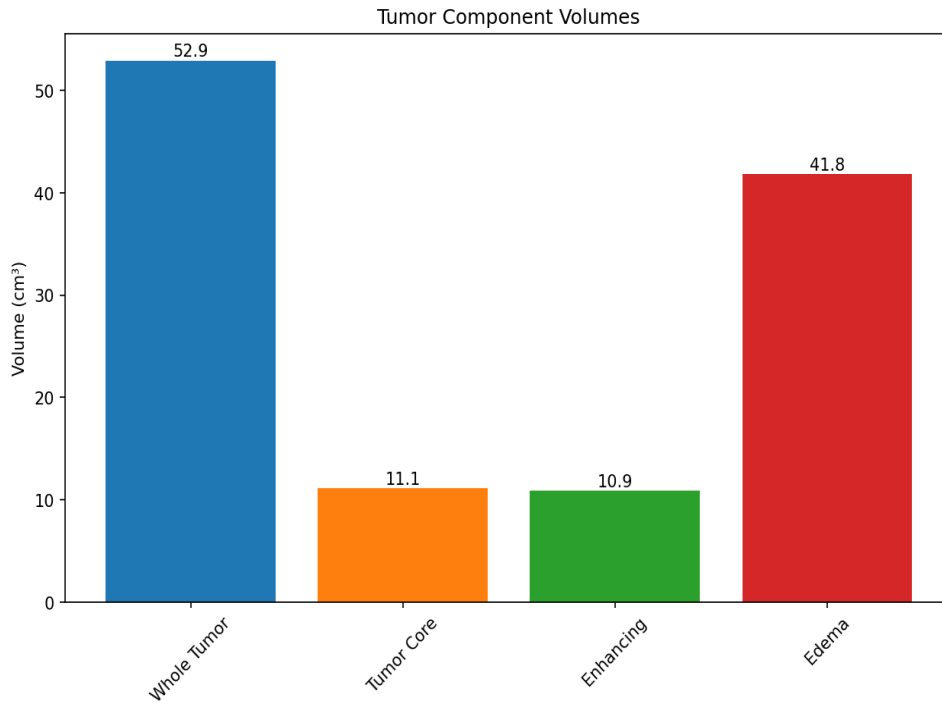
# Brain Tumor Analysis Report

Patient Information	
Report Date	2025-09-09T22:45:48.840799
Case ID	case_6c5caaed-a97a-46c7-beec-54fd207d10c1

Clinical Features Summary	
Whole Tumor Volume	52.92 cm³
Tumor Size Category	very_large (>15 cm³)
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 <sup>3</sup>
Whole Tumor Diameter	62.0	mm
Tumor Core Volume	11.12	cm <sup>3</sup>
Enhancing Volume	10.86	cm <sup>3</sup>
Necrotic Volume	0.26	cm <sup>3</sup>
Edema Volume	41.80	cm <sup>3</sup>
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 10:45 PM

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