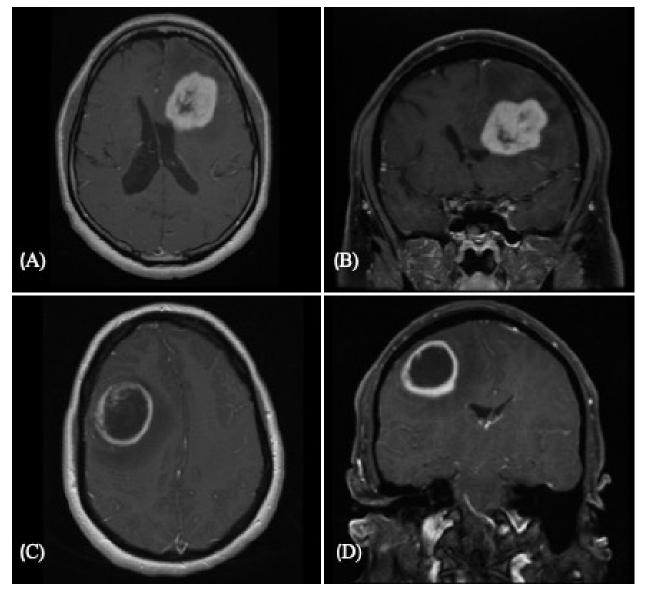
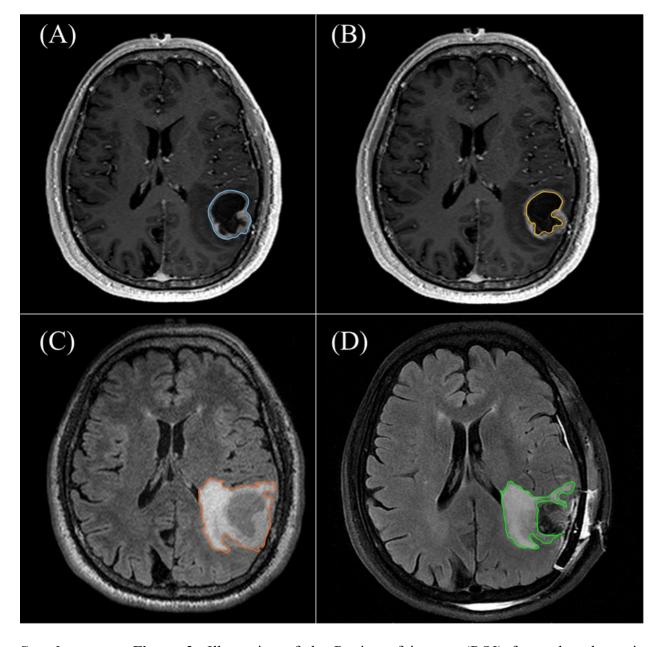
Supplementary material:

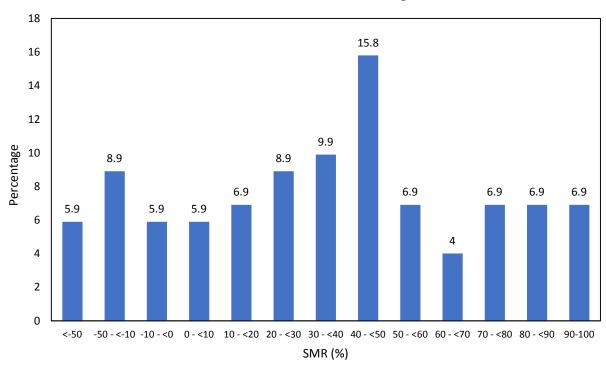


**Supplementary Figure 1:** Location of the tumor in relation to the lateral ventricles (LV). **A & B,** T1-weighted post-contrast MR images, axial and coronal view respectively, showing CE tumor bordering the LV. **C & D,** T1-weighted post-contrast MR images, axial and coronal view respectively.

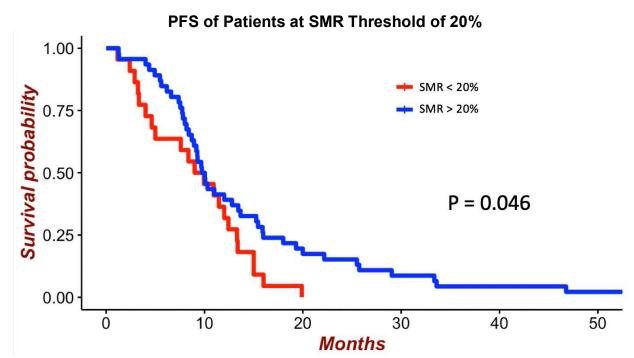


**Supplementary Figure 2:** Illustration of the Region of interest (ROI) for each volumetric measurement. **(A)** Contrast-enhancing ROI (blue) on pre-operative MRI axial T1 post-contrast sequence. **(B)** Cystic/Necrosis ROI (yellow) on pre-operative MRI axial T1 post-contrast sequence. **(C)** FLAIR ROI (orange) on pre-operative MRI axial FLAIR sequence. **(D)** FLAIR ROI (green) on post-operative MRI axial FLAIR sequence.

## Distribution of SMR Percentages

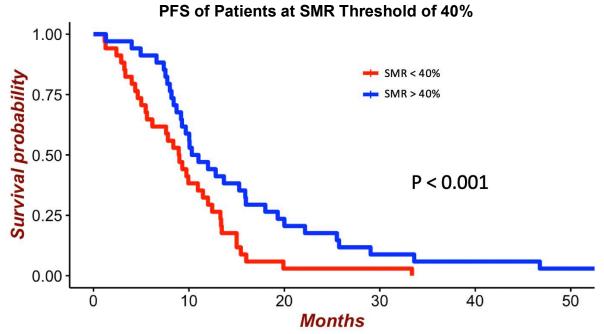


**Supplementary Figure 3:** Histogram showing distribution of SMR percentages in our cohort.



**Supplementary Figure 4:** PFS by SMR threshold of 20% among patients with GBM with GTR of the CE. The mean PFS for patients receiving <20% SMR was 8.7 months compared to 9.6 months for >20% SMR patients (P = 0.046).





**Supplementary Figure 5:** PFS by SMR threshold of 40% among patients with GBM with GTR of the CE. The mean PFS for patients receiving <40% SMR was 8.9 months compared to 10.6 months for >40% SMR patients (P < 0.001).

Supplementary table 1: Univariate Analysis of SMR (%) by Location				
Variable	Yes	No	p Value	
Deep-seated	24.8%	31.9%	0.50	
Non-Eloquent	30.0%	26.4%	0.73	

Supplementary Table 2: Univariate Analysis of SMR and PFS				
Variable	HR (95% CI)	p Value		
% SMR on T2-weighted FLAIR				
1% Increments	1.00(0.99 - 1.01)	0.38		
10% Increments	0.92 (0.85 - 0.99)	0.04		
> 20%	0.58 (0.34 - 0.99)	0.05		
> 30%	0.50 (0.30 - 0.85)	0.01		
> 40%	0.52(0.31-0.86)	0.01		
> 50%	0.64 (0.38 - 1.06)	0.08		
Age				
≥ 65 yrs	2.34(1.31 - 4.19)	< 0.01		
Gender				
Male sex	0.87 (0.52 - 1.45)	0.59		
MGMT				
Promoter metylation	0.61 (0.48 - 0.94)	0.04		
KPS				
>70	0.48 (0.24 - 0.86)	0.03		
Charlson Comorbidity Index	0.03			

Boldface type indicates statistical significance (p < 0.05).