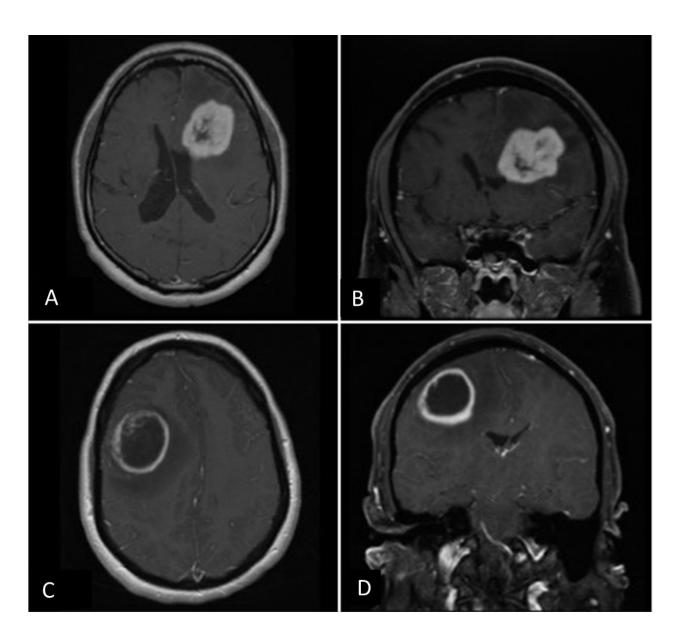
ONLINE ONLY Supplemental material

Influence of supramarginal resection on survival outcomes after gross-total resection of IDH–wild-type glioblastoma

Vivas-Buitrago et al. https://thejns.org/doi/abs/10.3171/2020.10.JNS203366

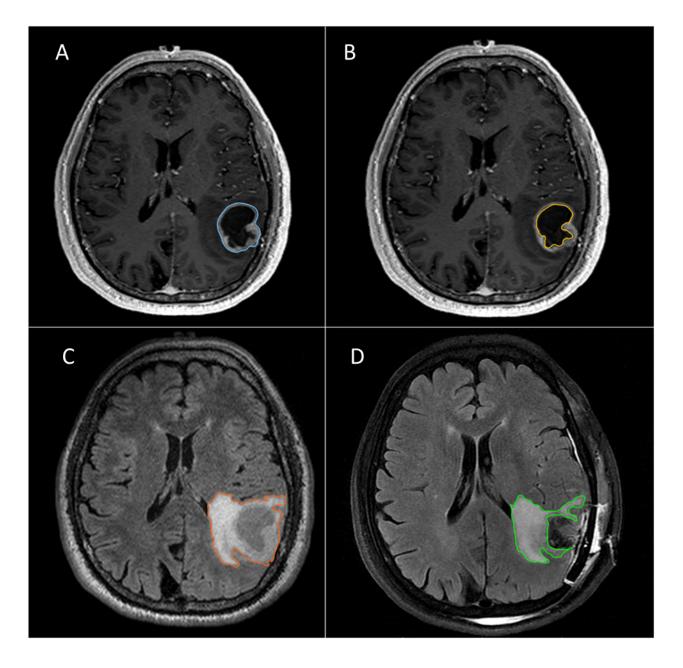
DISCLAIMER The *Journal of Neurosurgery* acknowledges that the following section is published verbatim as submitted by the authors and did not go through either the *Journal's* peer-review or editing process.

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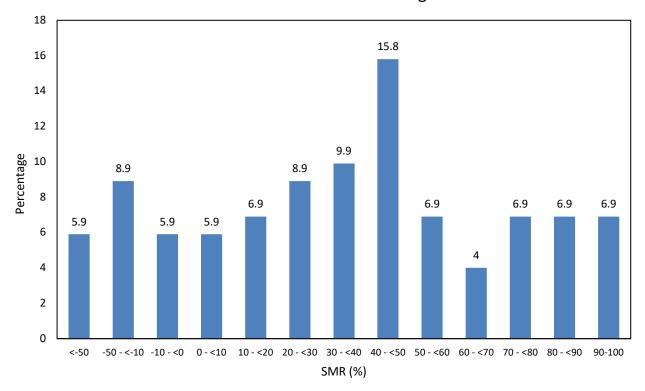


Supplementary Figure 1: Location of the tumor in relation to the lateral ventricles (LV). A & B, T1-weighted post-contrast MR images, axial and coronal view respectively, showing CE tumor bordering the LV. C & D, T1-weighted post-contrast MR images, axial and coronal view respectively.

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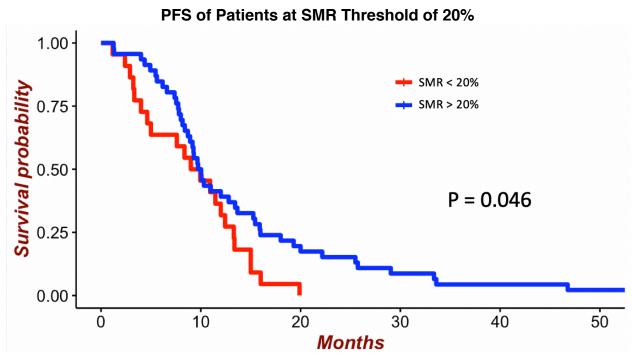


Supplementary Figure 2: Illustration of the Region of interest (ROI) for each volumetric measurement. **A.** Contrast-enhancing ROI (blue) on pre-operative MRI axial T1 post-contrast sequence. **B.** Cystic/Necrosis ROI (yellow) on pre-operative MRI axial T1 post-contrast sequence. **C.** FLAIR ROI (orange)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

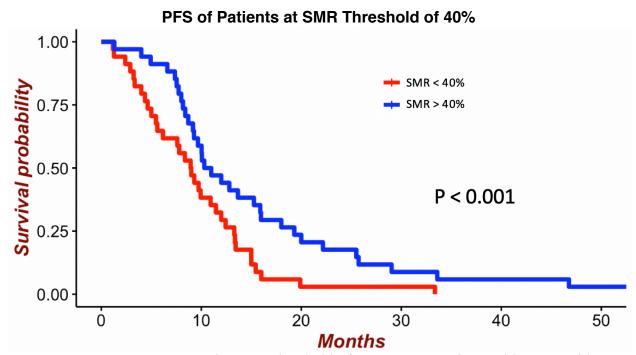


Distribution of SMR Percentages

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		
T2-FLAIR SMR (%)				
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				
\geq 65	2.34 (1.31 – 4.19)	<0.01		
Gender				
Male	0.87(0.52 - 1.45)	0.59		
MGMT				
Methylated	0.61 (0.48 - 0.94)	0.04		
KPS				
>70	0.48(0.24 - 0.86)	0.03		
Charlson Comorbidity Index	1.20 (1.01 - 1.43)	0.03		