



Trial Innovation Network Expression of Interest: SUpratotal vs Gross-total Resection for Glioblastoma: The SUGR Trial

Study Title	SUpratotal vs Gross-total Resection for Glioblastoma: The SUGR Trial	
Funding I/C	PCORI	
Study Description	Hypothesis: SpTR for non-eloquent primary GBM confers OS benefit compared to GTR without a negative impact on neurologic outcomes, ability to pursue adjuvant treatments, or quality of life. Based on historical trials in GBM treatment, 10% percent improvement in OS will be defined as the "benchmark" for success; while the trial is powered to detect a significant treatment difference, survival curves will be presented illustrating OS differences at all study timepoints.9 1. Demonstrate significantly improved OS for patients undergoing SpTR vs. GTR for primary GBM based on a prospectively, simple randomized clinical trial 2. Determine PFS/recurrence; initiation/completion of adjuvant therapy; rates of early/long-term complications; and differences in patient-reported QOL metrics for primary GBM patients undergoing SpTR vs. GTR 3. Quantify the impact of primary GBM molecular markers and residual FLAIR volume following surgical resection upon survival, recurrence, morbidity, neurologic function, overall performance status, and patient-reported QOI in patients undergoing SpTR vs GTR for primary GBM.	
Study Design	To test this Hypothesis, we have designed a randomized clinical trial conforming to the Comparative Effectiveness Research model. Eligible patients will be randomized to undergo SpTR or GTR in equal proportions. Patients enrolled during the Feasibility phase will continue scheduled follow-up aand will be included in the analysis for the Full-Scale Study Phase.	
IRB	Johns Hopkins School of Medicine IRB	
Coordinating Center	Johns Hopkins (CCC) and University of Utah (DCC)	
Study Length	Participant duration: 24 months	
Study Enrollment #	400	
Eligibility Criteria	 Inclusion Criteria Age ≥ 18 years Karnofsky performance status KPS <70 Individuals with a suspected, contrast-enhancing primary HGG on MRI brain imaging who are broguth to neurosurgery clinic or the inpatient neurosyrgery service as part of their routine care will be identified for study inclusion by their neurosurgeon (or delegate). Patients must be subsequently proceed with resection as part of standard of primary GGG care and have histologically confirmed primary HGG in order to remain in the study. Confirmed primay HGG must be centred in the right frontal lobe, right anterior temporal lobe, left anterior temporal lobe, right occipital lobe, or left occipital lobe based upon routine brain MRI with and without contrast Participaint surgeon will consist of board-eligible or board-certified neurosurgeons with brain tumor sub-speciality, published work on HGG patient outcomes, and at least 50 craniotomies for brain tumor resection performed per year. 	Exclusion Criteria
Total # of Sites	30	
Site Requirements	 Study sites will need to have the following at their site to be considered: Performs at least 40 HGG resections per year At least 30% of surgical patients return to the site for chemo radiation Research staff with experience in randomized trials 	
Site Investigator Qualifications	Site Invesitigators should have the following: Board-certified neurosurgeon Performs at least 10 HGG resections per year Willing to randomize participants to SpTR vs. GTR	





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The following dates are projections and subject to change: Site Selection Decisions: March 2026 Site Selection Notifications: March 2026 Enrollment begins: December 2026

Key Timeline Dates:

Last Patient/Last Visit: March 2031 Study Closure: March 2032