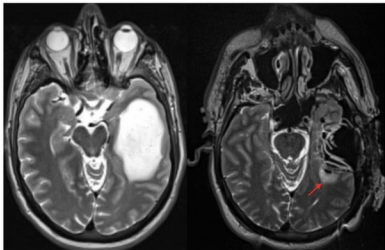


Graphical Abstract

Using Histopathology to Assess the Reliability of Intraoperative Magnetic Resonance Imaging in Guiding Additional Brain Tumor Resection: A Multicenter Study

Study Population

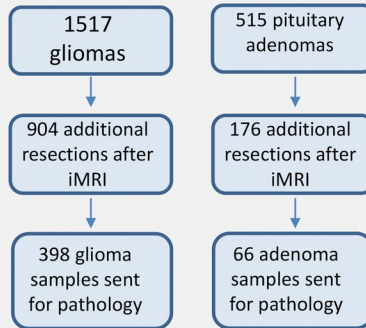
Patients receiving surgical resection for gliomas (grade I-IV) or pituitary adenomas with intraoperative MRI (iMRI).



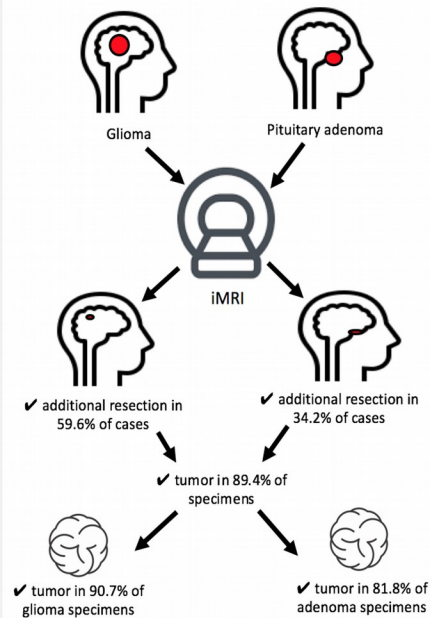
T2 preoperative MRI (left) showing left temporal glioma and iMRI (right) showing possible residual tumor after initial resection (red arrow).

Study Cohort

- 2032 resections (1517 gliomas, 515 pituitary adenomas) used iMRI.
- 1080 cases had additional resection after iMRI
- 464 cases had histopathology after additional iMRI-guided resection.



Reliability of iMRI



Shah et al. *Neurosurgery*. August 2020

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