Intraoperative awake brain mapping and multimodal image-guided resection of dominant side insular glioma

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Resection of insular tumors in the dominant hemisphere poses a significant risk of postoperative motor and language deficits. The authors present a case in which intraoperative awake mapping and multi-modal imaging was used to help preserve function while resecting a dominant insular glioma. The patient, a 55-year-old man, came to the clinic after experiencing sudden onset of numbness in the right limbs for 4 months. Preoperative MRI revealed a nonenhancing lesion in the left insular lobe. Gross-total tumor resection was achieved through the transcortical approach, and the patient recovered without language or motor deficits. Informed patient consent was obtained.

The video can be found here: <https://youtu.be/gFky09ekmzw>.

KEYWORDS insula; glioma; transcortical resection; video

SUBMITTED June 13, 2018. **ACCEPTED** August 9, 2018.

INCLUDE WHEN CITING Published online October 1, 2018; DOI: <http://thejns.org/doi/abs/10.3171/2018.10.FocusVid.18259>.

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