Laser interstitial thermal therapy for an eloquent region supratentorial brain lesion

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Laser interstitial thermal therapy (LITT) is a minimally invasive stereotactic technique that causes tumor ablation using thermal energy. LITT has shown to be efficacious for the treatment of deep-seated brain lesions, including those near eloquent areas. In this video, the authors present the case of a 62-year-old man with a history of metastatic melanoma who presented with worsening right-sided hemiparesis. MRI revealed a contrast-enhancing lesion in left centrum semiovale in close proximity to corticospinal tracts, consistent with radiation necrosis. The authors review their stepwise technique of LITT with special attention to details for a lesion located near eloquent area.

The video can be found here: <https://youtu.be/ndrTgi6MXqE>.

KEYWORDS laser interstitial thermal therapy; LITT; eloquent; radiation necrosis; brain lesion

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DISCLOSURES Drs. Barnett and Mohammadi report being consultants for Monteris Company.

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