Laser interstitial thermal therapy of the spine: technical aspects

Nelson Moussazadeh, MD,¹ Linton T. Evans, MD,¹ Roxana Grasu, MD,² Laurence D. Rhines, MD,¹ and Claudio E. Tatsui, MD¹

Departments of ¹Neurological Surgery and ²Anesthesiology, University of Texas MD Anderson Cancer Center, Houston, Texas

Spinal laser interstitial thermal therapy has been developed as a minimally invasive modality to treat epidural spinal tumors percutaneously. The safe and effective use of this technology requires meticulous preoperative trajectory planning and an intraoperative workflow incorporating navigation and MR thermography. Instrumented stabilization can be performed during the same operation if needed. Operative considerations and technical aspects are reviewed.

The video can be found here: <https://youtu.be/P--frsag6gU>.

KEYWORDS spinal laser interstitial thermal therapy; spinal metastasis

SUBMITTED December 1, 2017. **ACCEPTED** February 14, 2018.

INCLUDE WHEN CITING Published online April 1, 2018; DOI: <http://thejns.org/doi/abs/10.3171/2018.4.FocusVid.17732>.

CORRESPONDENCE Claudio Tatsui: University of Texas MD Anderson Cancer Center, Houston, TX. cetatsui@mdanderson.org.