

Engineering the extraordinary

Let's talk possibility

for your **brain tumor patients**

Visualase™ MRI-Guided Laser Ablation

Laser Interstitial Thermal Therapy (LITT)



What is Visualase™ MRI-guided laser ablation?

Visualase[™] is an MRI-guided laser ablation system used to perform Laser Intersitital Thermal Therapy (LITT), a minimally-invasive surgical option to ablate tumors in the brain. This option can help expand treatment possibilities for brain tumor patients.

LITT can provide access to deep-seated brain tumors that may otherwise be considered inoperable.¹ It can arrest the progression of radiation necrosis that may result from earlier radiation therapy.² LITT may also prove beneficial for your patients who have reached the maximum cumulative dose of radiation for treatment of their brain tumor. 1,3-5

With a significantly shorter recovery time than open craniotomy,⁶ LITT patients can move on to adjuvant treatments more quickly. 1,7-9 Because less time in the hospital is more time for living.



Visualase[™] vs Craniotomy

hospital stay⁶

2.33

discharge to home⁶

79%

66%

complication rate¹⁰

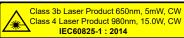
5.7%

13.9%

30-day readmission rate⁶

0%

13%



DANGER
VISIBLE AND INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO DIRECT OR
SCATTERED RADIATION

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Is Visualase™ right for my patient?

Find out more about Visualase™ MRI-Guided laser ablation, including technology and indications at medtronic.com/visualase.

How can I refer my patient for a Visualase[™] procedure?

Become part of the Visualase™ community. Scan this QR code to sign up to speak with your local Medtronic rep. We can answer your questions and help you connect with neurosurgeons who perform Visualase™ procedures in your area.



- 1. Ivan ME, Mohammadi AM, De Deugd N, et al. Laser Ablation of Newly Diagnosed Malignant Gliomas: a Meta-Analysis.
- Neurosurgery. 2016;79 Suppl 1:S17-S23. doi:10.1227/NEU.00000000001446

 Hernandez RN, Carminucci A, Patel P, Hargreaves EL, Danish SF. Magnetic Resonance-Guided Laser-Induced Thermal Therapy for the Treatment of Progressive Enhancing Inflammatory Reactions Following Stereotactic Radiosurgery, or PEIRs, for Metastatic Brain Disease. Neurosurgery. 2019;85(1):84-90. doi:10.1093/neuros/nyy220

 Banerjee C, Snelling B, Berger MH, Shah A, Ivan ME, Komotar RJ. The role of magnetic resonance-guided laser ablation in
- neurooncology. Br J Neurosurg. 2015;29(2):192-196. doi:10.3109/02688697.2014.996527
- 4. Franzini A, Moosa S, Servello D, et al. Ablative brain surgery: an overview. Int J Hyperthermia. 2019;36(2):64-80. doi:10.108 0/02656736.2019.1616833
- 5. Norred SE, Johnson JA. Magnetic resonance-guided laser induced thermal therapy for glioblastoma multiforme: a review. Biomed Res Int. 2014;2014;761312. doi:10.1155/2014/761312
- 6. Leuthardt EC, Voigt J, Kim AH, Sylvester P. A Single-Center Cost Analysis of Treating Primary and Metastatic Brain Cancers with Either Brain Laser Interstitial Thermal Therapy (LITT) or Craniotomy. Pharmacoecon Open. 2017;1(1):53-63. doi:10.1007/s41669-016-0003-2
- 7. Gross RE, Stern MA, Willie JT, et al. Stereotactic laser amygdalohippocampotomy for mesial temporal lobe epilepsy. Ann Neurol. 2018;83(3):575-587. doi:10.1002/ana.25180
- Hoppe C, Witt JA, Helmstaedter C, Gasser T, Vatter H, Elger CE. Laser interstitial thermotherapy (LiTT) in epilepsy surgery. Seizure. 2017;48:45-52. doi:10.1016/j.seizure.2017.04.002
- 9. Tovar-Spinoza Z, Choi H. MRI-quided laser interstitial thermal therapy for the treatment of low-grade gliomas in children: a case-series review, description of the current technologies and perspectives. Childs Nerv Syst. 2016;32(10):1947-1956. doi:10.1007/s00381-016-3193-0
- 10. Barnett GH, Voigt JD, Alhuwalia MS. A Systematic Review and Meta-Analysis of Studies Examining the Use of Brain Laser Interstitial Thermal Therapy versus Craniotomy for the Treatment of High-Grade Tumors in or near Areas of Eloquence: An Examination of the Extent of Resection and Major Complication Rates Associated with Each Type of Surgery. Stereotact Funct Neurosurg. 2016;94(3):164-173. doi:10.1159/000446247

Caution: Federal Law (USA) restricts these devices for sale by or on the order of a physician. Refer to product instruction manual/package insert for instructions, warnings, precautions, and contraindications. Healthcare professionals must review the product technical manual prior to use for detailed disclosure. For information on Indications, Safety, and Warnings, call Medtronic at (800) 328-0810. For further information, please contact Medtronic Neurosurgery at (877) 242-9504, and/or consult Medtronic's website at www.medtronic.com.

Healthcare professionals must review the product technical manual prior to use for detailed disclosure. For information on Indications, Safety, and Warnings, call Medtronic at (877) 242-9504, or visit Medtronic's website at www.medtronicneurosurgery.com.

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