

Transcranial magnetic stimulation

[Transcranial magnetic stimulation](#) (TMS) is a unique [method](#) for non-invasive brain [imaging](#). The fundamental difference between TMS and other available non-invasive brain imaging techniques is that when a physiological response is evoked by stimulation of a cortical area, that specific cortical area is causally related to the response. With other imaging methods, it is only possible to detect and map a brain area that participates in a given task or reaction.

Transcranial magnetic stimulation tractography

[Transcranial magnetic stimulation tractography](#)

Indications

see [Repetitive transcranial magnetic stimulation](#).

Brain tumor resections in presumed eloquent location ^{1) 2)}

see [Navigated transcranial magnetic stimulation](#).

see [Transcranial direct current stimulation](#).

¹⁾

Paiva WS, Fonoff ET, Marcolin MA, Cabrera HN, Teixeira MJ. Cortical mapping with navigated transcranial magnetic stimulation in low-grade glioma surgery. *Neuropsychiatr Dis Treat*. 2012;8:197-201. doi: 10.2147/NDT.S30151. Epub 2012 May 3. PubMed PMID: 22665996; PubMed Central PMCID: PMC3363137.

²⁾

Picht T. Current and potential utility of transcranial magnetic stimulation in the diagnostics before brain tumor surgery. *CNS Oncol*. 2014 Jul;3(4):299-310. PubMed PMID: 25286041.

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