

Intraoperative Cortical Mapping

General information

Indications

Typically used to locate the [motor strip](#), [sensory cortex](#), or [speech centers](#) intraoperatively for surgery in and around these [eloquent areas](#). Localization of these areas based on visible anatomy alone is unreliable. These techniques are typically employed in [seizure surgery](#) as well as in treating lesions in areas of the [eloquent](#) brain.

Some techniques require an awake patient, with the surgery done under local anesthesia with sedation. Motor and sensory cortex can also be localized in anesthetized patients using SSEPs.

see [Cortical map](#).

The [gold standard](#) for cortical [mapping](#), is direct [electrocortical stimulation](#) (DECS),

Sir [Victor Horsley](#) is credited with first utilizing intraoperative [electrical stimulation](#) for [cortical mapping](#) ¹⁾.

¹⁾
Panczykowski DM, Monaco EA 3rd, Friedlander RM. Transcranial focused ultrasound modulates the activity of primary somatosensory cortex in humans. Neurosurgery. 2014 Jun;74(6):N8-9. doi: 10.1227/NEU.0000000000000365. PubMed PMID: 24836106.

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