# inomed 13



Intraoperative Neuromonitoring Functional Neurosurgery Pain Treatment Neurological Diagnostics

# Dynamic continuous Mapping of the Corticospinal Tract

by Raabe

#### >> APPLICATION FIELDS

Neurosurgery

KATEGORIESIEGER

Protection of the corticospinal tract and motor cortex during tumor resection

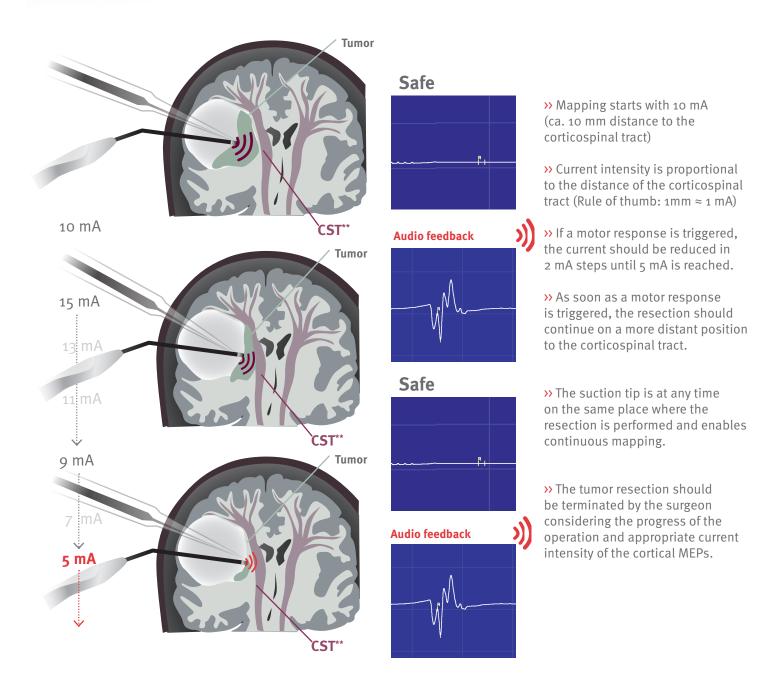


## > Mapping Method by RAABE

### >> METHOD

## Dynamic continuous subcortical mapping simplifies a safe tumor resection.

The ability to resect a tumor down to low motor thresholds is a significant refinement of the classic subcortical mapping of the corticospinal tract. The use of the Mapping Suction Probe makes it possible to achieve maximal tumor removal **minimizing the possibility of damage to the corticospinal tract**.



The method (\*) is based on resection, where no MEPs will be triggered.

The method allows a safe tumor resection with better protection of the corticospinal tract and helps to prevent a postoperative permanent paresis.

## > All-in-one surgical suction tube & stimulation probe

Especially for the new method of dynamic continuous subcortical mapping, the MAPPING SUCTION PROBE was developed in cooperation with Prof. Dr. Raabe.

The combination of a surgical suction tube and a monopolar electrical stimulation probe combines suction during tumor resection with simultaneous continuous dynamic mapping of the corticospinal tract.

### >> BENEFITS

- >> Subcortical mapping with synchronous suction
- >> Simplified maximal tumor resection
- >> No change of instruments during the procedure
- >> The method is supported by a continuous audio feedback
- 1. A low-pitched sound is emitted if there is a motor response.
- 2. A high-pitched sound is delivered when current confirm is activated and there is no motor response allowing a continuation of resection.

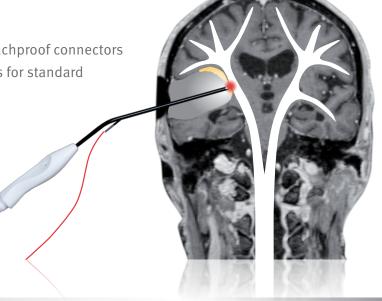


#### >> FFATURES

The monopolar electrical stimulation is delivered at the tip of the mapping suction probe. The shaft of the Mapping Suction Probe is insulated to ensure that the electrical contact is restricted to the tip of the Mapping Suction Probe only. The red connection cable of the stimulator is attached directly to the Mapping Suction Probe.

Stimulation parameters and the routine application of the Mapping Suction Probe is identical to the parameters of a standard monopolar stimulation probe.

- >> 2mm active tip
- >> Easy connection to stimulators with 1.5 mm touchproof connectors
- >> Stimulation parameters identical to parameters for standard monopolar stimulation probe
- >> Connection to commonly used suction







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