

## Department of Neurosurgery

### Topic list (2022 /2023):

Supervisor	Topic
<b>Dr. Pál Barzó:</b>	Surgical treatment of neurovascular syndromes (trigeminal neuralgia).
<b>Dr. Pál Barzó:</b>	Morphological and functional studies of the cortical neuronal network.
<b>Dr. Tamás Németh, Dr. Pál Barzó</b>	Management of complex (and giant) aneurysms: endovascular treatment modalities.
<b>Dr. Tamás Németh, Dr. Pál Barzó</b>	Surgical management of intracranial aneurysms.
<b>Dr. Dávid Kis:</b>	Preoperative functional MRI and DTI-based tractography investigation of brain tumors affecting motor and speech areas.
<b>Dr. Dávid Kis:</b>	The role of diffusion MRI-based probabilistic connectivity examinations in the surgical treatment of movement disorders (Parkinson's disease, essential tremor).
<b>Prof. Dr. Veres Róbert, Dr. Bod Bence</b>	Operative management of traumatic thoraco-lumbar spinal fractures
<b>Dr. Péter Elek, Dr. Tamás Tóth:</b>	Retrospective follow-up studies of surgical treatment of degenerative cervical spine.
<b>Dr. Péter Elek, Dr. Tamás Tóth:</b>	Treatment options of degenerative cervical spine.
<b>Dr. Péter Elek, Dr. Tamás Tóth, Dr. Kerim Watfa:</b>	Diagnostic and treatment options of hydrocephalus.
<b>Dr. Péter Elek, Dr. Tamás Tóth, Dr. Kerim Watfa:</b>	Endoscopic neurosurgery.