

Department of Neurosurgery

Topic list (2025/2026):

Supervisor	Topic
Dr. Pál Barzó	Surgical treatment of neurovascular syndromes (trigeminal neuralgia).
Dr. Pál Barzó	Morphological and functional studies of the cortical neuronal network.
Dr. Dávid Kis	Preoperative functional MRI and DTI-based tractography investigation of brain tumors affecting motor and speech areas.
Dr. Dávid Kis	The role of diffusion MRI-based probabilistic connectivity examinations in the surgical treatment of movement disorders (Parkinson's disease, essential tremor).
Prof. Dr. Veres Róbert Dr. Bod Bence	Operative management of traumatic thoraco-lumbar spinal fractures
Prof. Dr. Barzó Pál Dr. Tamás Tóth	Retrospective follow-up studies of surgical treatment of degenerative cervical spine.
Prof. Dr. Barzó Pál Dr. Tamás Tóth	Treatment options of degenerative cervical spine.
Prof. Dr. Barzó Pál Dr. Kerim Watfa	Diagnostic and treatment options of hydrocephalus.
Prof. Dr. Barzó Pál Dr. Kerim Watfa	Endoscopic neurosurgery.
Prof. Dr. Barzó Pál Dr. Tahaei Arad	Unusual infections of the CNS and their treatment
Prof. Dr. Barzó Pál Dr. Tóth Tamás	The advantages of retroperitoneal exploration of the lumbar spine
Prof. Dr. Barzó Pál Dr. Tahaei Arad	Pituitary Adenomas: surgical treatment pitfalls and nuances