

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

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