

Neurosurgical practice

- Early progressive ambulation in neurosurgical patients with tracheostomy: clinical application and evaluation
- Simulating Endonasal Endoscopic Skull Base Surgery on Animal Carcasses: A Prospective Observational Study
- NeuroLens: organ localization using natural language commands for anatomical recognition in surgical training
- Brain ultrasonography in neurosurgical patients
- Reliability and validity of the Finnish version of the AO spine PROST (patient reported outcome spine trauma)
- Reshaping neurosurgical training: a novel simulation-based concept for structured skill acquisition and curriculum integration
- Society of MYND (Mentorship of Young Neurosurgical Doctors): a project for the ongoing education of junior faculty pediatric neurosurgeons
- A national study of neurosurgical residency competency development

The carrying out or exercise of a [neurosurgeon](#).

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Here are several facets of neurosurgery practice:

Clinical Practice:

Patient Care: Neurosurgeons diagnose and treat disorders of the nervous system, including the brain, spinal cord, and peripheral nerves. This involves performing surgeries, such as tumor resections, spine surgeries, and interventions for vascular abnormalities.

Preoperative and Postoperative Care: Neurosurgeons are involved in assessing patients before surgery, discussing treatment options, and providing postoperative care to ensure optimal recovery.

Training and Education:

Residency Training: Neurosurgeons undergo extensive training, including a residency program that typically spans several years. During this time, they acquire the skills and knowledge necessary to practice independently.

Continuing Medical Education (CME): Neurosurgeons engage in ongoing education to stay abreast of the latest advancements in their field, attend conferences, and participate in CME activities.

Collaboration and Multidisciplinary Practice:

Collaboration with Other Specialties: Neurosurgeons often work collaboratively with other medical specialists, such as neurologists, radiologists, oncologists, and rehabilitation specialists, to provide

comprehensive patient care.

Multidisciplinary Tumor Boards: In the management of complex cases, neurosurgeons may participate in multidisciplinary tumor boards where treatment plans are discussed and determined collaboratively.

Research and Innovation:

Research Practice: Neurosurgeons may engage in research activities to contribute to the advancement of knowledge in neurosurgery. This can involve clinical trials, outcomes research, and basic science investigations.

Innovation: Neurosurgeons may be involved in developing and adopting new technologies, surgical techniques, and treatment modalities to improve patient outcomes.

Ethical Practice:

Ethical Considerations: Neurosurgeons are expected to adhere to ethical principles in their practice. This includes informed consent, patient autonomy, confidentiality, and maintaining the highest standards of professionalism.

Global Practice:

Global Health Initiatives: Some neurosurgeons may participate in global health initiatives, providing care, training, and expertise in underserved regions.

Subspecialization:

Subspecialty Practice: Neurosurgeons often choose to specialize within neurosurgery, focusing on specific areas such as skull base surgery, vascular neurosurgery, spinal surgery, or pediatric neurosurgery.

Quality Improvement and Patient Safety:

Quality Assurance: Neurosurgeons actively participate in quality improvement initiatives to enhance patient safety, improve outcomes, and optimize the delivery of care.

Neurosurgery practice is dynamic and continually evolving, with practitioners dedicated to providing high-quality patient care, advancing the field through research and innovation, and maintaining ethical standards. It involves a commitment to lifelong learning, collaboration with other healthcare professionals, and a focus on improving the lives of patients with neurological disorders.

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