

Neurosurgery

No editors, no Publishers, Pure Neurosurgery

Latest Neurosurgery PubMed-Related Articles

- A "Smurf-Cap" head requiring total cranial vault reshaping. A novel syndromic presentation of craniofrontonasal dysplasia associated with spina bifida
 - ROS-responsive dextran-benzeneboronic acid pinacol ester micelles encapsulating edaravone for the treatment and mechanism of cerebral ischemia-reperfusion injury
 - Epidemiology of WHO grade 2 and grade 3 gliomas from 2009 to 2021 in Germany
 - Percutaneous cryoablation in the management of spinal metastases: a comprehensive systematic review and meta-analysis
 - FANCI is involved in the malignant progression of glioma cells by regulating the Akt/Bcl-2 signaling pathway
 - Effect of extended intravenous diclofenac infusions on brain tissue oxygenation in patients with acute brain injury
 - Development and validation of a pediatric spine surgical invasiveness index
 - Fatty acid metabolism-related risk signature revealing the immune landscape of neuroblastoma and predicting overall survival in pediatric neuroblastoma patients
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Definition

Neurosurgery is a medical **specialty** that focuses on the **diagnosis, surgical treatment, and management of disorders affecting the nervous system**, including the **brain, spinal cord, peripheral nerves, and cerebrovascular system**.

This includes:

* **Brain surgery** (e.g., for tumors, hemorrhages, epilepsy) * **Spine surgery** (e.g., for herniated discs, spinal stenosis, trauma) * **Neurovascular procedures** (e.g., aneurysm clipping, AVM treatment) * **Functional neurosurgery** (e.g., deep brain stimulation for Parkinson's disease) * **Pediatric neurosurgery** (e.g., congenital malformations like spina bifida) * **Neuro-oncology** (e.g., surgical resection of brain and spinal tumors) * **Trauma neurosurgery** (e.g., emergency surgery after head injuries)

Neurosurgeons use advanced imaging, microsurgical techniques, and increasingly, **robotics and computer-guided navigation systems** to improve precision and outcomes.

In summary:

Neurosurgery is the branch of medicine concerned with the surgical treatment of diseases of the nervous system.

Neurosurgical Procedures

[Neurosurgical Procedures.](#)

Neurosurgical Techniques

[Neurosurgical Techniques.](#)

Resources

Here are some of the **best and most respected resources for neurosurgery**, categorized by type:

<https://neurosurgerywiki.com/>

□ Textbooks & Reference Works

- * **[Greenberg's Handbook of Neurosurgery](#)** – compact but comprehensive; widely used by residents.
- * **[Youmans and Winn Neurological Surgery](#)** – the most exhaustive multivolume reference.
- * **[Neurosurgery by Kempe](#)** – classic atlas for cranial and spinal approaches.
- * **[Core Techniques in Operative Neurosurgery](#)** – practical surgical techniques.

Journals

see [Neurosurgery Journals](#)

- * **[Journal of Neurosurgery \(JNS\)](#)** – flagship publication; highly respected.
- * **[Neurosurgery \(Operative Neurosurgery\)](#)** – focuses on clinical and technical advances.
- * **[World Neurosurgery](#)** – global scope; includes case reports and technical notes.
- * **[Acta Neurochirurgica](#)** – European-based but international in scope.

□ Online Platforms & Databases

- * **[The Neurosurgical Atlas](#)** (by Aaron Cohen-Gadol):
<https://www.neurosurgicalatlas.com/>

Rich multimedia on surgical techniques and anatomy.

* **UpToDate** – reliable for evidence-based summaries, though not surgical-heavy. * **PubMed** – essential for literature searches on specific clinical questions.

□ Clinical Guidelines

* **EANS (European Association of Neurosurgical Societies)** * **AANS/CNS Joint Guidelines** * **NCCN & EANO Guidelines** – especially for neuro-oncology.

□ Video & Learning Platforms

* **AANS Video Library** – curated operative videos and lectures. * **CNS Nexus** – streaming content and educational modules. * **YouTube Channels** (selected):

- *Neurosurgical.TV*
- *Neurosurgery Blog by AANS*
- *Operative Neurosurgery (Wolters Kluwer)*

□ Communities & Forums

* **AANS and EANS Membership Platforms** * **ResearchGate** and **LinkedIn** – to follow researchers and discussion threads. * **Reddit (r/Neurosurgery)** – informal, sometimes insightful peer discussions.

Societies

[Societies.](#)

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