

Pakistan

- [Antibiotic-Impregnated Catheters for Ventriculoperitoneal Shunt in Neonates and Infants: A Systematic Review and Meta-Analysis](#)
- [Efficacy of Apolipoprotein A-1 Infusion on Coronary Atherosclerosis Postacute Coronary Syndrome: A Network Meta-Analysis of Randomized Controlled Trials](#)
- [Advanced Therapeutic Approaches Based on Small Extracellular Vehicles \(sEVs\) For the Regeneration of Spinal Cord Injuries](#)
- [Risk analysis index-measured frailty as a critical predictor of outcomes in patients with non-normal pressure hydrocephalus undergoing first-time shunt surgery: A nationwide study](#)
- [Modified frailty index-11 \(mFI-11\) measured frailty as a predictor of postoperative outcomes in Parkinson's disease patients undergoing deep brain stimulation: A national inpatient sample analysis](#)
- [Tirofiban Combination Therapy for Acute Ischemic Stroke: A Systematic Review and Meta-Analysis](#)
- [Genetic association of AIP gene variant c.910C>T with pituitary adenoma/acromegaly patients of Pakistani origin](#)
- [Enhancing IANB success: Panoramic guidance for locating mandibular foramen](#)

Hospitals

[Karachi](#).

[Peshawar](#).

Neurosurgeons

According to the [World Federation of Neurosurgical Societies](#) (WFNS), a minimum neurosurgery [workforce](#) density should be 1 per 200,000 [population](#) for optimum access to neurosurgical [care](#). Pakistan lags behind in the number of [neurosurgeons](#), and disproportionate geographical distribution further increases disparity.

The objective of Bakhshi et al. was to geographically map the density of neurosurgeons and [emergency](#) neurosurgical services (ENS) in Pakistan.

This survey was circulated among 307 neurosurgeons. Data was analyzed using [SPSS](#) v21. The number of neurosurgeons and ENS were plotted on the population density map using ArcGIS Pro 3.0.0 software.

Three hundred and seven neurosurgeons working at 74 centers responded to the survey (93.3% coverage). The current density of neurosurgeons in Pakistan is 0.14/100,000. The two more populous provinces, Punjab and Sindh, have 42.3% (130) and 35.8% (110) neurosurgeons, respectively. They also housed nearly 3 quarters of all the neurosurgery centers in urban districts. Karachi and Lahore accommodate 135 (44%) of all the country's neurosurgeons, having 0.29 and 0.51 neurosurgeons/100,000 respectively. Management of traumatic brain injury is offered at 65 centers (87.8%). Nearly all centers are equipped with CT scan machine (74; 97%), but MRI facility is available

at 55 (72%) centers and 37 (49%) centers have angiography suites. Sixty-nine centers (93.2%) have C-arm fluoroscopes available.

The geographical mapping of neurosurgeons and neurosurgical facilities is highly skewed towards urban centers, increasing disparity in access to timely neurosurgical emergency services. Four times more neurosurgeons are required in Pakistan to bridge the gap in the neurosurgical workforce ¹⁾

Society

[Pakistan Journal of Neurological Surgery](#)

Annual Conference

29th Annual Conference Pakistan Society of Neurosurgery

November 4 — November 6 2016

Lahore, Pakistan

The meeting is a premier forum for Neurosurgeons and trainees of Pakistan. This conference will offer a diverse, relevant and cutting edge scientific program and hands on workshops to help you advance your skills and knowledge. Lahore is a stunningly beautiful city with numerous historic buildings, beautiful gardens and delightful cuisines.

<http://www.neurosurgerypk.org/>

28th Annual Conference of Pakistan Society of Neurosurgeons SP TU Event Date: Thursday, November 19, 2015 to Sunday, November 22, 2015 About the Event: There are 20 renowned Faculty from all over the World.

This consists of Hands-on Cadaver Spine course, Microscopic/ Endoscopic Skull Base Course and Annual Meeting of Pakistan Society of Neurosurgeons.

External Link: www.neurosurgeryatliaquatnational.com/

Motorcycle accident in Pakistan

see [Motorcycle accident in Pakistan](#).

¹⁾

Bakhshi SK, Shah Z, Khalil M, Khan Mughal MA, Kazi AM, Virani QU, Jooma R, Dewan M, Shamim MS. Geographical Distribution of Neurosurgeons and Emergency Neurosurgical Services in Pakistan. World Neurosurg. 2023 Sep 6:S1878-8750(23)01243-3. doi: 10.1016/j.wneu.2023.08.133. Epub ahead of print. PMID: 37683928.

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