

Professor Mohan Raj Sharma, MBBS, MS

Dean, Institute of Medicine, Tribhuvan University

Professor Mohan Raj Sharma is Dean of the Institute of Medicine (IOM), Tribhuvan University, and Professor of Neurosurgery at Maharajgunj Medical Campus. An accomplished neurosurgeon, academic leader, researcher, and educator, he has more than three decades of experience in clinical care, medical education, research, and institutional leadership.

After completing his MBBS and MS (General Surgery) at the IOM, he undertook advanced clinical and research fellowship training in neurosurgery at the University of Washington, USA. His career has been marked by significant contributions to neurosurgical care, research ethics, health research, postgraduate medical education, and academic leadership in Nepal.

He has served as Director of Research and Chairperson of the Institutional Review Committee at IOM and has authored more than 160 peer-reviewed scientific publications, books, and book chapters.

As Dean, Professor Sharma is committed to advancing excellence in education, research, innovation, ethical practice, and patient care while strengthening the IOM's national and international academic partnerships. The Incubation and Placement department commenced under his leadership to encourage innovation and incubation. He provides strategic leadership for Nepal's premier medical institution, comprising multiple campuses, teaching hospitals, research centers, and affiliated colleges.

Academic Leadership

His previous leadership appointments include:

- Chair, Department of Neurosurgery, Institute of Medicine
- Director of Research, Institute of Medicine
- Chair, Institutional Review Committee (three consecutive terms)
- Coordinator, MCh Neurosurgery Program
- Founder Editor-in-Chief, Nepal Journal of Neuroscience
- President, Nepalese Society of Neurosurgeons

Clinical and Research Interests

Clinical

General Neurosurgery
Cerebrovascular Neurosurgery
Neurotrauma

Education and Research

Global Neurosurgery
Clinical Research
Medical Education
Research Ethics and Governance
Artificial Intelligence in Medicine
Evidence-Based Medicine
Graduate Education and Mentorship

Professor Sharma has supervised postgraduate research across multiple disciplines and has mentored a generation of clinician-scientists in Nepal.

His academic supervision includes:

MS and MD postgraduate theses
MCh (Neurosurgery) theses
PhD co-supervision

Research mentorship for visiting international medical students and faculty;

He has supervised research projects involving trainees from internationally recognized institutions, including the University of Birmingham, Stanford University, Indiana University, SUNY Downstate Health Sciences University, and the University of Gothenburg, reflecting his commitment to international academic collaboration.

Authored book

- Sharma MR. Principles of Health Science Research. 2nd ed. Kathmandu: Samiksha Publications; 2025.

Textbook Chapters

- Sharma MR, Marsh H. Challenges in global neurosurgery. In: Ellenbogen RG, Sekhar LN, editors. *Principles of Neurological Surgery*. 4th ed. Philadelphia: Elsevier; 2017.
- Rubiano A, Sharma MR, Kolas AG, Hawryluk G. Management of traumatic brain injury in a resource-challenged environment. In: Winn HR, editor. *Youmans and Winn Neurological Surgery*. 8th ed. Philadelphia: Elsevier; 2022.

Selected scholarly contributions

- Sharma MR, Newell DW, Grant GA. Diffuse cerebral venous air embolism following subarachnoid hemorrhage. *J Neurosurg*. 2003; 98:1320. PMID: [12816283](#).
- Mukhida K, Sharma MR, Shilpakar SK. Pediatric neurotrauma in Kathmandu, Nepal: Implications for injury management and control. *Childs Nerv Syst*. 2006; 22:352-362 DOI: [10.1007/s00381-005-1235-0](#).
- Bansal V, Patil P, Faria I, Khajanchi M, Garba D, Raykar NP, Jhunjhunwala R, Sharma MR, Chatterjee S, Wärnberg MG, Roy N. Risk factors for mortality in patients with isolated traumatic brain injury: A multicenter prospective cohort study. *J Surg Res*. 2022; 279:480-490. DOI: [10.1016/j.jss.2022.05.005](#).
- Basak D, Chatterjee S, Attergrim J, Sharma MR, Soni KD, Verma S, Gerdin Wärnberg M, Roy N. Glasgow Coma Scale compared to other trauma scores in discriminating in-hospital mortality of traumatic brain injury patients admitted to urban Indian hospitals: A multicenter prospective cohort study. *Injury*. 2023;54(1):93-99. PMID: [36243583](#).
- Sharma MR, Karki S, Pradhanang AB, Sedain G. Microsurgical treatment of posterior circulation aneurysms: An institutional experience from Nepal. *Ann Med Surg (Lond)*. 2024; 86:1476-1482. PMID: [38463098](#)
- Sharma MR, Bohara S, Shrestha DK, Joshi DR, Singh S, Lamsal R, Acharya SP, Kafle P, Pradhanang AB, Sedain G, Farrokhi F, Grant GA. Clinical characteristics and outcome of patients with intraoperative aneurysm rupture: A retrospective cohort study from Nepal. *Neurosurg Pract*. 2024;5. DOI [10.1227/neuprac.0000000000000083](#)
- Sharma MR, Sedain G, Kafle P, Rajbhandari B, Pradhanang A, Shrestha D, Karki A, Chilawal A. Clinical characteristics and outcome of patients with brain arteriovenous malformations from a university hospital in Nepal. *Interdiscip Neurosurg*. 2023; 32:101716. DOI:[10.1016/j.inat.2022.101716](#)
- Mukhida K, Shilpakar SK, Sharma MR, Bagan M. Neurosurgery at Tribhuvan University Teaching Hospital, Nepal. *Neurosurgery*. 2005;57(1):172-180. PMID: [15987553](#) | DOI: • DOI: [10.1227/01.neu.0000163429.92507.d4](#).
- Kato Y, Liew BS, Feng L, Rasulic L, Arnautovic KI, Dong VH, Florian IS, Ollidashi F, Makhambetov Y, Bajamal AH, Nair S, Sharif S, Sharma MR, Landeiro JA, Yampolsky CG, El-Ghandour NM, Hossain AM, Sim S, Chemate S, Servadei F. Global neurosurgery education:

Summary from the "Horizon of Neurosurgery in the Developing Countries" symposium 2019. *Chin Neurosurg J.* 2020;6:19. [DOI: 10.1186/s41016-020-00194-1](https://doi.org/10.1186/s41016-020-00194-1).

- Sharma MR, Sedain G, Kafle P, Rajbhandari B, Pradhanang AB, Sapkota S, Niyaf A, Farrokhi F, Grant GA. Academic neurosurgery in Nepal: Present status and future directions. *Brain Spine.* 2023; 3:101779. **PMID:** [38020989](https://pubmed.ncbi.nlm.nih.gov/38020989/) | DOI: [10.1016/j.bas.2023.101779](https://doi.org/10.1016/j.bas.2023.101779)
- Cavallo SM, Pellencin E, Carone G, Castelli N, Ayadi RF, Ollidashi F, et al. The non-technical skills in neurosurgery. *Brain Spine.* 2024; 4:102923. **DOI:** [10.1016/j.bas.2024.102923](https://doi.org/10.1016/j.bas.2024.102923)
- Azad TD, Shrestha RK, Vaca SD, Niyaf A, Pradhananga A, Sedain G, Sharma MR, Shilpakar SK, Grant GA. Pediatric central nervous system tumors in Nepal: Retrospective analysis and literature review of low- and middle-income countries. *World Neurosurg.* 2015;84:1832-1837. **PMID:** [26283488](https://pubmed.ncbi.nlm.nih.gov/26283488/) .
- Pant A, Farrokhi F, Gyawali P, Yekuno K, Shah OB, Singh S, Sharma MR. Global research trends in central nervous system tuberculosis: A bibliometric analysis. *J Clin Tuberc Other Mycobact Dis.* 2024; 34:100414. **PMID:** [38304751](https://pubmed.ncbi.nlm.nih.gov/38304751/) | **DOI:** [10.1016/j.jctube.2024.100414](https://doi.org/10.1016/j.jctube.2024.100414) .
- Sharma MR, Ghimire N. Research and publication ethics in developing countries. *Nepal J Neurosci.* 2021;18(3):3-9. doi.org/10.3126/njn.v18i3.37143
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- Sharma MR. Applications of generative artificial intelligence in medicine: Opportunities and ethical considerations. *J Inst Med Nepal.* 2024;46(3):1-5. DOI:[10.59779/jiomnepal.1344](https://doi.org/10.59779/jiomnepal.1344)
- Sharma MR. Evidence-based medicine: Present status and future directions. *Nepal J Neurosci.* 2025;22(1):1-5. <https://doi.org/10.3126/njn.v22i1.78864>

