

CV



Name: Dr. Niraj Kumar

- MBBS, MD

Designation:

- Professor

Department/Institute/University:

- Department of Neuroanaesthesiology and critical care, AIIMS, New Delhi.

Date of Birth: 01-04-1977...

Sex - Male

Office Address:

- Room No 710, 7th Floor, Neurosciences Centre, AIIMS, New Delhi
- Email: (drnirajaiims@gmail.com)
- Phone No: 011-26593474
- Mobile No: 9013770806

Education (Post-Graduation onwards & Professional Career)

Sl No.	Institution Place	Degree Awarded	Year	Field of Study
1.	AIIMS, New Delhi	Senior Residency	2011	Neuroanessthesia
2.	Pt. JNM, Medical college, Raipur	MD	2007	Anesthesia
3.	Pt. JNM, Medical college, Raipur	MBBS	2002	Medicine, Surgery

Position and Employment (Starting with the most recent employment)

Sl No.	Institution	Position	From (Date)	To (date)
1.	AIIMS, NEW DELHI	Professor	01-07-2022	Till date
2.	AIIMS, NEW DELHI	Additional Professor	01-07-2018	30-06-2022
3.	AIIMS, NEW DELHI	Associate Professor	01-07-2015	30-06-2018
4.	AIIMS, NEW DELHI	Assistant professor	22-03-2012	30-06-2015

Awards and Academic Achievements

- Instructor (Faculty) of –ATLS, ANC, ACCC, AIIMS – EM-SONO, AUTLS, AIIMS cadaver airway.
- Course director - Cadaveric Airway Management Course, AIIMS, New Delhi.
- Course Director - Ultrasound POCUS SERIES - Classroom “an online ISNACC initiative.
- I have also given series of lectures in National Live Webinar Series -Neuroanesthesia, conducted by NBEMS (National board of examinations in Medical Sciences)
- Completed fellowship Program: (Clinical Research Methodology and Evidence Based Medicine) at AIIMS, New Delhi. 2021.
- Completed Good Clinical Practice Training Program.

Publications

1. Kumar N, Bindra A, Mahajan C. Anesthetic management of patient with brugada syndrome. *J Neurosurgical Anesthesiol.* 2013; 25(2)16-217.
2. Meyong bhutia, keshav goyal, Arti rai, Shweta kedia, Niraj kumar, Ranadhir mitra. High altitude pulmonary edema with a fatal outcome within 24h of its onset: shall acclimatization be made compulsory? *Saudi journal of anesthesia* 2013;4:488-499
3. Kumar N, Goyal H, Bindra A, Goyal K. Management of aspirated tooth in an adult head injury patient: Report of two cases. *Saudi Journal of Anaesthesia.* 2014; 8(2):276-278.
4. Kumar N, Arora S, Bindra A, Goyal K. Anesthetic management of craniosynostosis repair in patient with Apert syndrome. *Saudi Journal of Anaesthesia.* 2014;8(3):399-401
5. Bindra A, Chauhan M, Kumar N, Jain V, Chauhan V, Goyal K. Severe barotrauma resulting from subtle migration of tracheal tube: A nightmare. *Saudi Journal of Anaesthesia.* 2014;8(4):572-573.
6. Kumar N, Bindra A, Kumar N, Yadav N, Sharma S. Anesthetic concerns in a huge congenital sublingual swelling obscuring airway access. *Saudi Journal of Anaesthesia.* 2015; 9(2):202-203.
7. Tomar GS, Saxena A, Kumar N, Goyal K. A well known and important adverse effect of phenytoin in a neurosurgical patient. *BMJ Case Rep.* 2015 Oct 16; 2015.
8. Tomar GS, Kumar N, Saxena A, Goyal K. Head injury patient with bilateral vocal cord paralysis: a mistake and a lesson learnt. *BMJ Case Rep.* 2015 Nov 18; 2015.
9. Rajeeb K Mishra, Ashish Bindra, Niraj Kumar, S Leve J Devaranjan. Post-intubation quadriplegia in a child: A dreadful presentation. *Journal of Neuroanaesthesiology and Critical Care* 2016;3 : 65-66.
10. Tomar GS, Goyal K, Chandran R, Luthra A, Chauhan V, Kumar N. Aneurysmal hemorrhage in a pregnant patient with coarctation of aorta: An anesthetic challenge. *J Clin Anesth.* 2017 Feb;37: 176–8.
11. A. Kaushal, A. Bindra, N. Kumar, K. Goyal, G. P. Rath. Evaluation of prognostic factors of outcome in severe traumatic brain injury patients following decompressive craniectomy. *JNACC* 2017; 4: 88 -116
12. A. Khandelwal, K. Goyal, A. Hazarika, N. Sokhal, A. Bindra, N. Kumar, G. P. Rath, P. Bithal. Non-neurosurgical complications in traumatic neurosurgical ICU patients: A prospective observational study. *JNACC* 2017; 4: 88 -116

13. Ankur Khandelwal, Bhagya Ranjan Jena, Niraj Kumar, Ashutosh Kaushal. Hypermobility laryngeal granulomas: a potential cause of false negative cuff leak test. *Anaesthesiol Intensive Ther* 2017;49(1):77-78a
14. Kumar N, Kaushal A, Dev Soni K, Tomar GS. A rare case of malposition of central venous catheter detected by ultrasonography-guided saline flush test. *BMJ Case Rep*. 2017 Jul 6; 2017.
15. Khandelwal A, Sokhal N, Kumar N, Singh S, Sokhal S. Phenytoin-induced Excessive Sedation During Awake Craniotomy: An Unusual Observation. *J Neurosurg Anesthesiol*. 2017 Nov 10;
16. Lamsal R, Mishra RK, Kumar N. Pneumocephalus following Lumbar Spine Surgery: A Rare Cause of Delayed Emergence from Anesthesia. *J Neuroanaesth Crit Care*. 2018 Jan;05 (1):30–2.
17. Khandelwal A, Kumar N. Sustained intraoperative bradycardia revealing Sengers syndrome. *Indian J Anaesth*. 2018 Jan 1; 62(1):86.
18. Kumar N, Burman S, Yadav A, *et al* Stuck guidewire due to soft tissue imposition: a rare complication of central line catheter placement *Case Reports* 2018; 2018: bcr-2018-224219.
19. Goyal K, Hazarika A, Khandelwal A, Sokhal N, Bindra A, Kumar N, et al. Non-neurological complications after traumatic brain injury: A prospective observational study. *Indian J Crit Care Med* 2018;22: 632-8.
20. Moda N, Kumar N. Combined use of video laryngoscopy and fiberoptic for airway management in a patient with fixed cervical spine. *Asian J Pharm Clin Res*. 2018 Nov 7; 1–3.
21. Kaushal A, Bindra A, Kumar A, Goyal K, Kumar N, Rath GP, et al. Long term outcome in survivors of decompressive craniectomy following severe traumatic brain injury. *Asian J Neurosurg* 2019; 14:52
22. Burman S, Kumar N, Goyal K, Bindra A. Rupture along with fibrin clot occluding the middle port of the triple lumen catheter: an uncommon complication of central venous catheterisation. *BMJ Case Rep*. 2019 Sep 16;12(9).
23. Prasad C, Khandelwal A, Kumar S, Chaturvedi A, Kumar N. Abdominal Cerebrospinal Fluid Pseudocyst Due to Ventriculoperitoneal Shunt Mimicking Unilateral Pleural Effusion: A Rare Finding. *J Neurosurg Anesthesiol*. 2019 Jul 10;
24. Khandelwal A, Kumar N. Reply to “Reversible Cerebral Vasoconstriction Syndrome Responsive to Intravenous Milrinone.” *Neurocrit Care*. 2020 Apr 1;32(2):643–643.
25. Kumar N, Bindra A, Singh GP, Goyal K, Chaturvedi A, Yadav N, et al. Incidence of posterior vessel wall puncture during ultrasound guided vascular access: Short

axis versus long axis approach. J Anaesthesiol Clin Pharmacol. 2021 Sep;37(3):342–6

26. Mishra RK, Goyal K, Bindra A, Singh GP, Kumar N, Sokhal N, et al. An investigation to the prolonged requirement (>7 days) of vasopressors in cervical spinal cord injury patients a retrospective analysis. Spinal Cord Ser Cases. 2021 Nov 2;7(1):96.
27. Vishwakarma, V. K., Shah, S., Kaur, T., Singh, A. P., Arava, S. K., **Kumar, N.**, Yadav, R. K., Yadav, S., Arora, T., & Yadav, H. N. (2023). Effect of vinpocetine alone and in combination with enalapril in experimental model of diabetic cardiomyopathy in rats: possible involvement of PDE-1/TGF- β / Smad 2/3 signaling pathways. *The Journal of pharmacy and pharmacology*, 75(9), 1198–1211.
28. Das K, Kumar S, Bindra A, **Kumar N**, Pathak S. Ultrasound assessment of diaphragm function in traumatic brain injury: a prospective observational study. J Neuroanaesth Crit Care 2023; 10(03): 183-188
29. Mishra A, Kumar M, **Kumar N**, Goyal K, Soni KD, Yadav A. Short-axis versus long-axis approach for ultrasound-guided vascular access: An updated systematic review and meta-analysis of randomized controlled trials. Indian J Anaesth 2023;67: S208-17
30. Purohit A, Kumar M, **Kumar N**, Bindra A, Pathak S, Yadav A. Comparison between dexmedetomidine and lidocaine for attenuation of cough response during tracheal extubation: A systematic review and meta-analysis. Indian J Anaesth 2024; 68:415-25.

- Books chapter: 3
- Conference Lectures – > 100

Reviewer of Journal

- As a reviewer of various journal e.g.
 - BMJ Case Reports
 - Indian journal of anesthesia
 - Annals of Otolaryngology and Rhinology
 - Journal of Neuroanaesthesiology and Critical Care (JNACC)
 - Asian Journal of Pediatric Research (AJPR)
 - Journal of Pharmaceutical Research International (JPRI)
 - Journal of emergency and shock

MEMBERSHIP OF PROFESSIONAL BODIES:

1. Indian Society of anesthesiologists. (ISA)- lifetime - Membership no – N-648

2. Indian society for trauma and acute care (ISTAC)- lifetime - Membership no -10216
3. Indian society of Neuroanesthesiology and critical care (ISNAC) – lifetime - Membership no –LMK -33
4. Indian society of critical care medicine (ISCCM) - lifetime - LM-13/K -628
5. Neurotrauma society of India – lifetime – K -32
6. Society of Neurosonology – LM-NS060/2071
7. All India Difficult Airway Association (AIDAA) – 17/K -60

C. Research

Ongoing Research Projects – funded

Sl No.	Title of Project	Funding Agency	Amount	Date of sanction and Duration
1.	Non convulsive status epilepticus in severe TBI patients at level-1trauma center in India. (As coinvestigator)	DHR-GIA	25 lakhs	2020 (2 Years)

Completed Research Projects. – funded

Sl No.	Title of Project	Funding Agency	Amount	Date of completion
1.	Development and validation of novel pressure measuring device for measuring the collapsing pressure of internal Jugular vein during an ultrasound examination. (As PI)	AIIMS-IITD (AI 40)	20 lakhs	April-2020 2 Years
2.	Incidence of posterior vessel wall punctures during ultrasound guided vascular access: short axis versus long axis approach	AIIMS (Intramuaral)	3,80,000/	2017

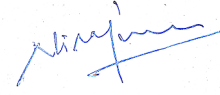
Departmental projects (Thesis)

Departmental DM Thesis (Chief guide)–

- To evaluate the effect of change in end tidal carbon dioxide on optic nerve sheath diameter under general anaesthesia. (Completed)
- Effect of topical ropivacaine on extubation response in patients undergoing supratentorial tumour surgeries: a prospective randomised double blinded placebo-controlled trial. (ongoing)
- Effects of varying concentration of nitrous oxide on motor evoked potential during spine surgeries: A Randomized controlled study. (ongoing)

Departmental DM Thesis (Co- guide)–

- Development of postoperative laryngeal edema in patients undergoing craniotomy for elective intracranial tumour excision: a prospective, observational, preliminary study. (Co-Guide– DM thesis)
- To establish correlation between inferior vena cava collapsibility index and carotid doppler flow time with cardiac output in patients undergoing intracranial tumor surgeries (Co-Guide– DM thesis).
- Comparison of three anaesthetic techniques on emergence and recovery profile in patients undergoing supratentorial craniotomy.
- Use of intratracheal lignocaine to reduce emergence reaction in the patients undergoing endoscopic transphenoidal pituitary surgery: a randomized controlled study.
- Effect of ketamine infusion as neuroprotective agent on neurological outcome in patients with severe traumatic brain injury: a randomized controlled pilot study.
- To establish correlation between inferior vena cava collapsibility index and carotid doppler flow time with cardiac output in patients undergoing intracranial tumor surgeries. (co-guide)



Place : AIIMS, New Delhi
Date : 10-02-2023

Signature of Investigator