



Dr. Gyaninder Pal Singh

M.B.B.S; M.D. (Anaesthesiology); D.M. (Neuroanaesthesiology)
Professor, Department of Neuroanaesthesiology and Critical Care
All India Institute of Medical Sciences, New Delhi

▪ **Professional Experience:**

- 2010 - 2012 : Senior Research Associate, AIIMS New Delhi.
- 2012 – 2016 : Assistant Professor, AIIMS, New Delhi.
- 2016 - 2019 : Associate Professor, AIIMS, New Delhi.
- 2019 - 2022 : Additional Professor, AIIMS, New Delhi.
- 2022 – till date: Professor, AIIMS, New Delhi.

▪ **Research ID Nos:**

- ORCID : 0000-0002-6702-6892
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- Scopus : 55470618600
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- Google Scholar ID : [evLo26UAAAAJ](https://scholar.google.com/citations?hl=en&user=evLo26UAAAAJ)
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▪ **Journal Publications and Book Chapters:**

- Over 150 publications in National and International Journals
- 19 Book chapters

▪ **Achievements and positions held:**

- Assistant Editor for Journal of Neuroanaesthesiology and Critical Care
- Section Editor (Neuroanaesthesia) for Neurology India
- Review Editor (Intensive Care Medicine & Anesthesiology) for Frontiers in Medicine
- Reviewer for multiple national and international Scientific Journals
- Active member of several national and international Scientific Societies like SNACC, ISNACC, ISA, RSACP, NSI, NTSI, ISTACC etc.
- Treasurer of the Indian Society of Neuroanaesthesiology and Critical Care (ISNACC) since 2022.
- Past Governing Council member for ISNACC
- Organising Secretary of AIIMS Neuroanaesthesia Update in 2017 and 2018.
- Training Centre Faculty for AHA-accredited BLS and ACLS Courses at AIIMS International Training Centre.
- Instructor for ISNACC and NCSI accredited Acute Neuro Care Course.
- Member of Expert Panel (for declaration of brain death) of Organ Retrieval and Banking Organization (ORBO), AIIMS.

▪ **Awards and Honors:**

- **Certificate of Appreciation** by Directorate General of Health Services, Govt. of NCD Delhi for contribution towards G20 Summit, New Delhi- 2023
- **Certificate of Appreciation** by Director AIIMS, New Delhi for contribution towards preparing e-learning skill modules and simulation-based training at AIIMS, Delhi- 2023
- **Bharat Vikas Award**- 2023
- **Appreciation Award for Exemplary Teaching** by Delhi ISA- 2022
- **Certificate of Appreciation**” by SET facility for contribution towards online teaching modules during COVID-19 in 2022
- **Certificate of Appreciation** by Director AIIMS for academic contributions to the SET facility programs at AIIMS Delhi in 2020
- **Best Researcher Award** in Anaesthesiology- 2020
- **Outstanding Scientist Award** in Anaesthesiology -2019
- **Awarded Patent** for “Modified polypeptide based Nano-conjugate for rapid risk stratification of traumatic brain injury” in 2019

- **First Prize and Travel Grant for the Best Research Paper** at NCS 2018, Gurugram.
- **Appreciation Certificate** by Director AIIMS, New Delhi for successful management of the first Craniopagus surgery in India in 2017
- **Best Paper Award** at International CME & Workshop 2016, NOIDA
- **Third Prize for Best Poster Award** at 4th Congress of ASNCC 2015, Korea.
- **Second Prize for the research paper** at the Research Society Meeting of PIMS- 2005.
- **Gold Medal in Surgery** during M.B.B.S. in 2000.

Few Important Publications:

1. Bindu B, **Singh GP**, Pandia MP. Effect of nitrous oxide on clinical outcome in patients undergoing cerebellopontine tumor surgery under sevoflurane anesthesia: a randomized controlled trial. *Med Gas Res.* 2024;14:26-32. doi: 10.4103/2045-9912.351105.
2. Pandit AK, Misra S, Sengupta S, Chakraborty R, Singh P, **Singh GP**, Phuljhele S, Srivastava AK, Vibha D, Garg A, Shankar V, Mohania D, Shukla G, Prasad K. Cerebral fluid proteins in idiopathic intracranial hypertension: An exploratory SWATH proteomics analysis. *Proteomics Clin Appl.* 2024;18:e2300021. doi: 10.1002/prca.202300021.
3. Dhanda A, **Singh GP**, Bindra A. Correlation Between Invasive and Noninvasive Technique of Intracranial Pressure Measurement in Children With Traumatic Brain Injury: An Observational Study. *J Neurosurg Anesthesiol.* 2022;34:221-6. doi: 10.1097/ANA.0000000000000751.
4. Mishra RK, Pandia MP, Kumar S, **Singh GP**, Kalaivani M. The effect of anaesthetic exposure in presurgical period on delayed cerebral ischaemia and neurological outcome in patients with aneurysmal subarachnoid haemorrhage undergoing clipping of aneurysm: A retrospective analysis. *Indian J Anaesth* 2020;64:495-500. DOI: 10.4103/ija.IJA_958_19.
5. Vanamoorthy P, **Singh GP**, Bidkar PU, Mitra R, Sriganesh K, Chavali S et al. The Neurocritical Care Society of India (NCSI) and the Indian Society of Neuroanaesthesiology and Critical Care (ISNACC) Joint Position Statement and Advisory on the Practice of Neurocritical Care during the COVID-19 Pandemic. *J Neuroanaesthesiol Crit Care.* 2020;7:128–39. DOI: 10.1055/s-0040-1714648.

6. Rath GP, **Singh GP**. Operating room to intensive care unit handoffs: Time to recognize an underrated predictor of patient outcome. *J Neuroanaesthesiol Crit Care*. 2019;06:179-81. DOI: 10.1055/s-0039-3401790.
7. Tomar GS, **Singh GP**, Bithal P, Upadhyay, AD, Chaturvedi A. Comparison of effects of manual and mechanical airway clearance techniques on intracranial pressure in patients with severe traumatic brain injury on a ventilator: randomized, crossover trial. *Phys Ther* 2019;99:388–95. DOI: 10.1093/ptj/pzy141.
8. **Singh GP**, Nigam R, Tomar GS, Monisha M, Bhoi SK, S A, Sengar K, Akula D, Panta P, Anindya R. Early and rapid detection of UCHL1 in the serum of brain-trauma patients: a novel gold nanoparticle-based method for diagnosing the severity of brain injury. *Analyst*. 2018;143:3366-73.
9. Tomar GS, **Singh GP**, Lahkar D, Sengar K, Nigam R, Mohan M, Anindya R. New biomarkers in brain trauma. *Clin Chim Acta*. 2018 ;487:325-9.
10. Chowdhury T, **Singh GP**, Zeiler FA, Hailu A, Loewen H, Schaller B, Cappellani RB, West M. Anesthesia for Awake Craniotomy for Brain Tumors in an Intraoperative MRI Suite: Challenges and Evidence. *Front. Oncol*. 2018, doi.org/10.3389/fonc.2018.00519.
11. Chowdhury T, Zeiler FA, **Singh GP**, Hailu A, Loewen H, Schaller B, Cappellani RB, West M. The Role of Intraoperative MRI in Awake Neurosurgical Procedures: A Systematic Review. *Front Oncol*. 2018;8:434.
12. Mahajan C, Rath GP, **Singh GP**, Mishra N, Sokhal S, Bithal PK. Efficacy and safety of dexmedetomidine infusion for patients undergoing awake craniotomy: An observational study. *Saudi J Anaesth*. 2018;12:235–239.
13. Bindu B, **Singh GP**, Chowdhury T, Schaller B. Rhinitis and sleep disorders: The trigeminocardiac reflex link? *Med Hypotheses*. 2017;103:96-99.
14. **Singh GP**, Chowdhury T. Brain and heart connections: The trigeminocardiac reflex!. *J Neuroanaesthesiol Crit Care*. 2017;4:71-77.
15. Chowdhury T, Bindu B, **Singh GP**, Schaller B. Sleep Disorders: Is the Trigemino-Cardiac Reflex a Missing Link? *Front Neurol*. 2017;8:63.
16. **Singh GP**, Chowdhury T, Bindu B, Schaller B. Sudden Infant Death Syndrome - Role of Trigemino-cardiac Reflex: A Review. *Front Neurol*. 2016;7:221.
17. Prabhakar H, **Singh GP**, Mahajan C, Kapoor I, Kalaivani M, Anand V. Intravenous versus inhalational techniques for rapid emergence from anaesthesia in patients

- undergoing brain tumour surgery. *Cochrane Database Syst Rev.* 2016 Sep 9;9:CD010467.
18. Prabhakar H, **Singh GP**, Ali Z, Kalaivani M, Smith MA. Pharmacological and non-pharmacological interventions for reducing rocuronium bromide induced pain on injection in children and adults. *Cochrane Database Syst Rev.* 2016.12;2:CD009346.
 19. Banik S, Kumar P, Prabhakar H, **Singh GP**. Dexmedetomidine and propofol for cerebral angiography in non-intubated patients: A comparative study. *J Neuroanaesthesiol Crit Care.* 2015;2:121-6.
 20. Prabhakar H, **Singh GP**, Anand V, Kalaivani M. Mannitol versus hypertonic saline for brain relaxation in patients undergoing craniotomy. *Cochrane Database Syst Rev.* 2014 Jul 16;7:CD010026.
 21. Bindra A, Prabhakar H, Bithal PK, **Singh GP**, Chowdhury T. Predicting difficult laryngoscopy in acromegalic patients undergoing surgery for excision of pituitary tumors: A comparison of extended Mallampati score with modified Mallampati classification. *J Anaesthesiol Clin Pharmacol.* 2013;29:187-90.
 22. Prabhakar H, Bindra A, **Singh GP**, Kalaivani M. Propofol versus thiopental sodium for the treatment of refractory status epilepticus (Review). *Evid Based Child Health.* 2013;8:1488-508
 23. **Singh GP**, Prabhakar H, Bithal PK, Dash HH. A retrospective analysis of perioperative complications during intracranial neuroendoscopic procedures: our institutional experience. *Neurol India.* 2011;59:874-8.
 24. **Singh GP**, Prabhakar H, Bithal PK, Dash HH. A comparative evaluation of nitrous oxide-isoflurane vs isoflurane anesthesia in patients undergoing craniotomy for supratentorial tumors: A preliminary study. *Neurol India.* 2011;59:18-24.
 25. Sharma D, Prabhakar H, Bithal PK, Ali Z, **Singh GP**, Rath GP, Dash HH. Predicting difficult laryngoscopy in acromegaly: a comparison of upper lip bite test with modified Mallampati classification. *J Neurosurg Anesthesiol.* 2010;22:138-43.