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## AREA OF RESEARCH INTEREST

**Aneurysmal SAH | Brain Protection | Epilepsy Surgery  
Intraoperative Blood Loss | Intraoperative Anaesthetic Consumption**

## KEY RESEARCH CONTRIBUTIONS

Our team has made important contributions to the following key research areas of Neuro-Anesthesiology

1. Effect of stellate ganglion block on cardiac rhythm in patients with acute aneurysmal sub-arachnoid hemorrhage with vasospasm.
2. Management of life threatening airway obstruction caused by rapidly enlarging giant dissecting pseudoaneurysm of the carotid artery.
3. Use of tranexamic acid during excision of intracranial meningioma.
4. Percutaneous Retrogasserian Glycerol Rhizolysis and Radiofrequency Thermocoagulation techniques in the management of Trigeminal Neuralgia.

## MAJOR RESEARCH PROJECTS

1. Effect of preoperative transcutaneous electrical nerve stimulation on intraoperative anesthetic drug consumption and pain scores in patients undergoing lumbar discectomy under general anesthesia. Role: Co-Investigator. Funding Agency: Indian Society of Neuroanaesthesiology and Critical Care. Period: 2014–2016.
2. Measurement of Neutrophil Gelatinase-Associated Lipocalin for Acute Kidney Injury following Neuroradiological Procedure(s) in Patients with Aneurysmal Sub-arachnoid Hemorrhage: A Preliminary Study. Role: Co-Investigator. Funding Agency: Indian Society of Neuro-anaesthesiology and Critical Care. Period: 2016–2018.

## MAJOR PUBLICATIONS

1. Radhakrishna N, Khandelwal A, Chouhan RS, Pandia MP, Burman S and Mahapatra RR. Complications and neurological outcome following intraoperative aneurysm rupture in adult patients undergoing intracranial aneurysm clipping: A Retrospective study. *J Neurosci Rural Pract* 2021; 12 (2): 382–388.
2. Rajagopalan V, Chouhan RS, Pandia MP, Lamsal R, Bithal PK, Rath GP. Effect of Stellate Ganglion Block on Intraoperative Propofol and Fentanyl Consumption in Patients with Complex Regional Pain Syndrome Undergoing Surgical Repair of Brachial Plexus Injury: A Randomized, Double-blind, Placebo- controlled Trial. *Neurol India* 2020; 68: 617 - 623.
3. Hooda B, Chouhan RS, Rath GP, Bithal PK, Suri A and Lamsal R. Effect of tranexamic acid on intraoperative blood loss and transfusion requirements in patients undergoing excision of intracranial meningioma. *J Clin Neurosci* 2017; 41: 132–138.
4. Bindra A, Chouhan RS, Prabhakar H, Dash HH, Chandra PS, Tripathi M. Comparison of the effects of different anesthetic techniques on electrocorticography in patients undergoing epilepsy surgery – A bispectral index guided study. *Seizure*, 2012; 21(7): 501-507
5. Chouhan RS, Dash HH, Bithal PK, Chaturvedi A, Pandia MP, Radhakrishnan M, Rath GP, and Padhy N: Intra-operative mild hypothermia for brain protection during intracranial aneurysm surgery. *J Anaesth Clin Pharmacol*, 2006; 22 (1): 21–28.