

Department of Anaesthesiology, Critical Care and Pain Medicine

UCMS and GTB Hospital,
Dilshad Garden
Delhi - 110095

Outline

- Faculty and Staff
 - Teaching faculty: Professors: 8; Associate Professor: 1; Assistant Professors: 3
 - Residents: SRs 30; and JRs
 - Non-teaching staff
- Infrastructure
- Patient care areas
- Equipment
- Teaching curriculum and Assessment
- Publications by faculty

Faculty and Staff

Designation	Numbers available	Numbers required	Deficiency, if any
Professors	08	01	Nil
Associate Professor	01	04	Nil
Assistant Professor	03	06	Nil
Senior Residents	30	11	nil

Teaching Faculty



Teaching Faculty

	Name	Designation	Teaching Experience (PG teacher)
1	Dr. Ashok Kumar Saxena	Professor and HOD	33 years 8 months
2	Dr. Mahendra Kumar	Director Professor	28 yrs, 3mth, 9d
3	Dr. RS Rautela	Director Professor	26yrs, 8mth, 14d
4	Dr. Sujata Chaudhary	Director Professor	26yrs, 2mth, 25d
5	Dr. Medha Mohta	Director Professor	23yrs, 6mth, 17d
6	Dr. Asha Tyagi	Director Professor	19yrs, 9mth, 18d

S. No.	Name	Designation	Teaching Experience (PG teacher)
7	Dr. Geetanjali Chilkoti	Professor	9yrs, 14d
8	Dr. Rashmi Salhotra	Professor	8yrs, 4mth, 11d
9	Dr. Ruchi Kapoor	Associate Professor	9yrs, 5mth
10	Dr. Vibhore Gupta	Assistant Professor	1yr, 2mth, 25d
11	Dr. Anshul Singh	Assistant Professor	1 yr, 2mth, 3d
12	Dr. Michelle Gulabani	Assistant Professor	1mth, 4d

S. No.	Designation	Total number
1	Senior Residents	30
2	Junior Residents (PG students)	68
3	Stenographer	01
4	Store keeper	01
5	Technical Supervisor	03
6	Technical Assistant	03
7	Technician	24
8	OT Attendant	73

Infrastructure

Office space for teaching faculty

Office Space for Teaching Faculty	
Head of the Department	Yes
Professors	Yes
Associate Professors	Yes
Assistant Professor	Yes
Residents	Yes

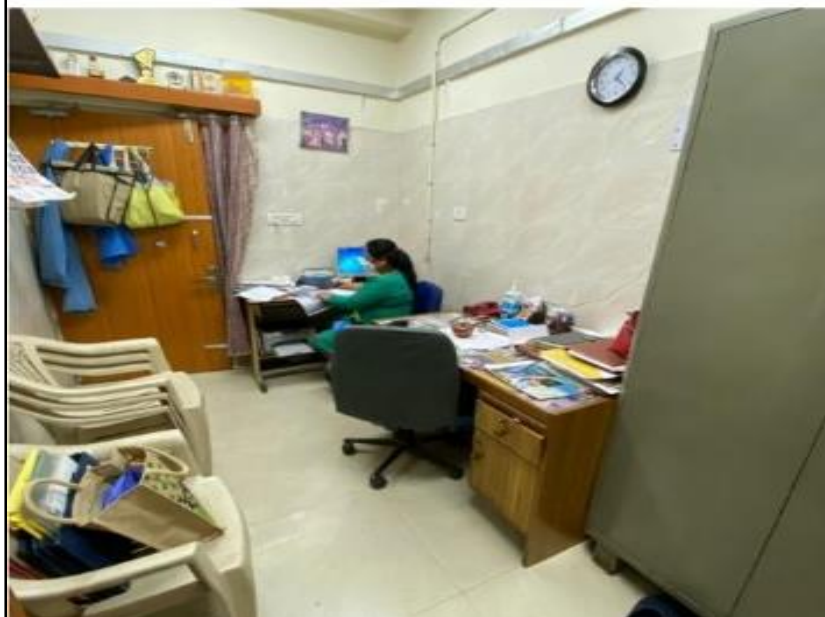
HOD Room



Office of the Head Of the Department



Offices of the faculty members



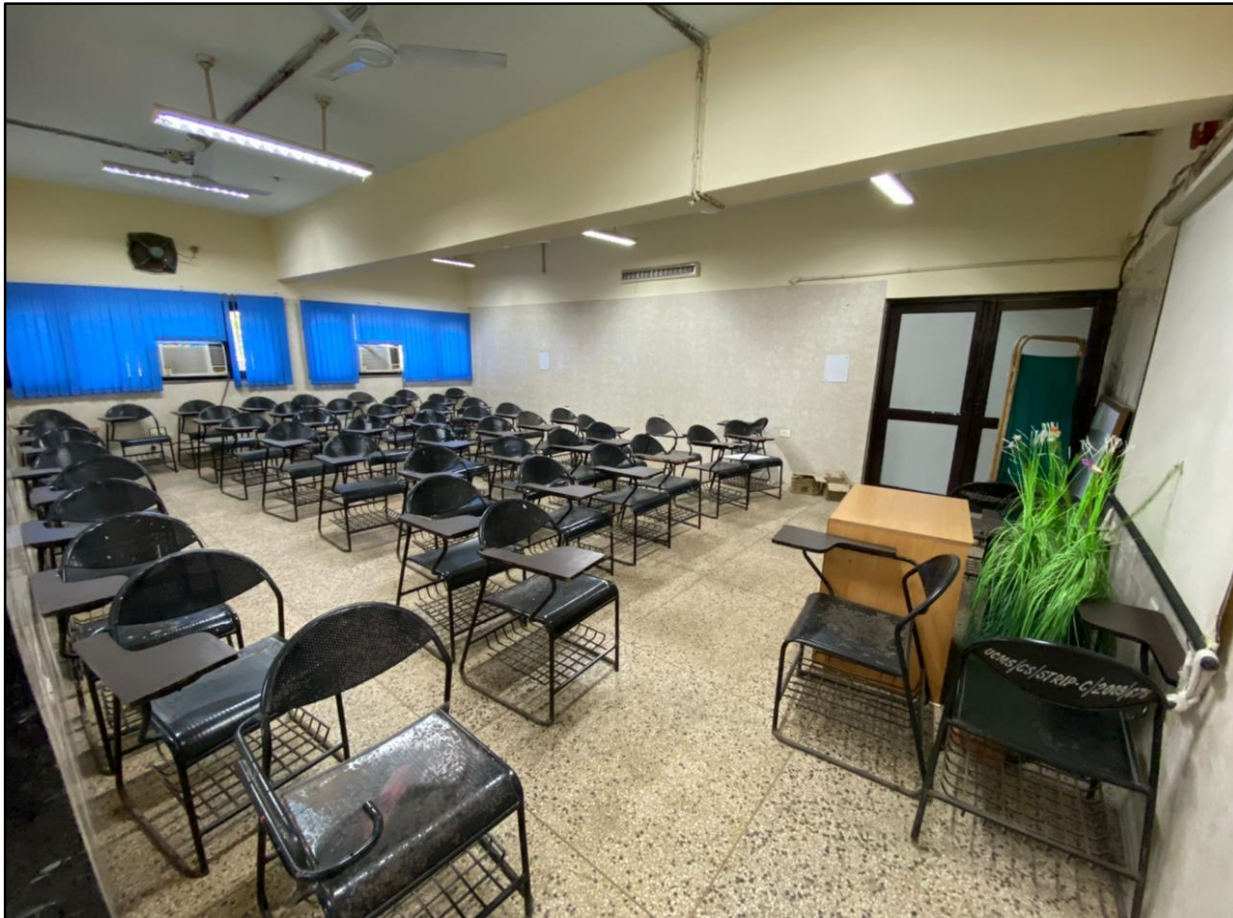
Rooms for residents

Duty rooms located in each OT and ICU area



Teaching Area: Demo/Seminar Room

- 01 large dedicated room available with furniture and projector in CSSD
- Lecture theatres in college



Department Library

Location	2 nd floor main ICU area
Total No. of Books	88
Purchase of latest editions in past 3 years	2
Number of Journals	The journals are available in Central Library

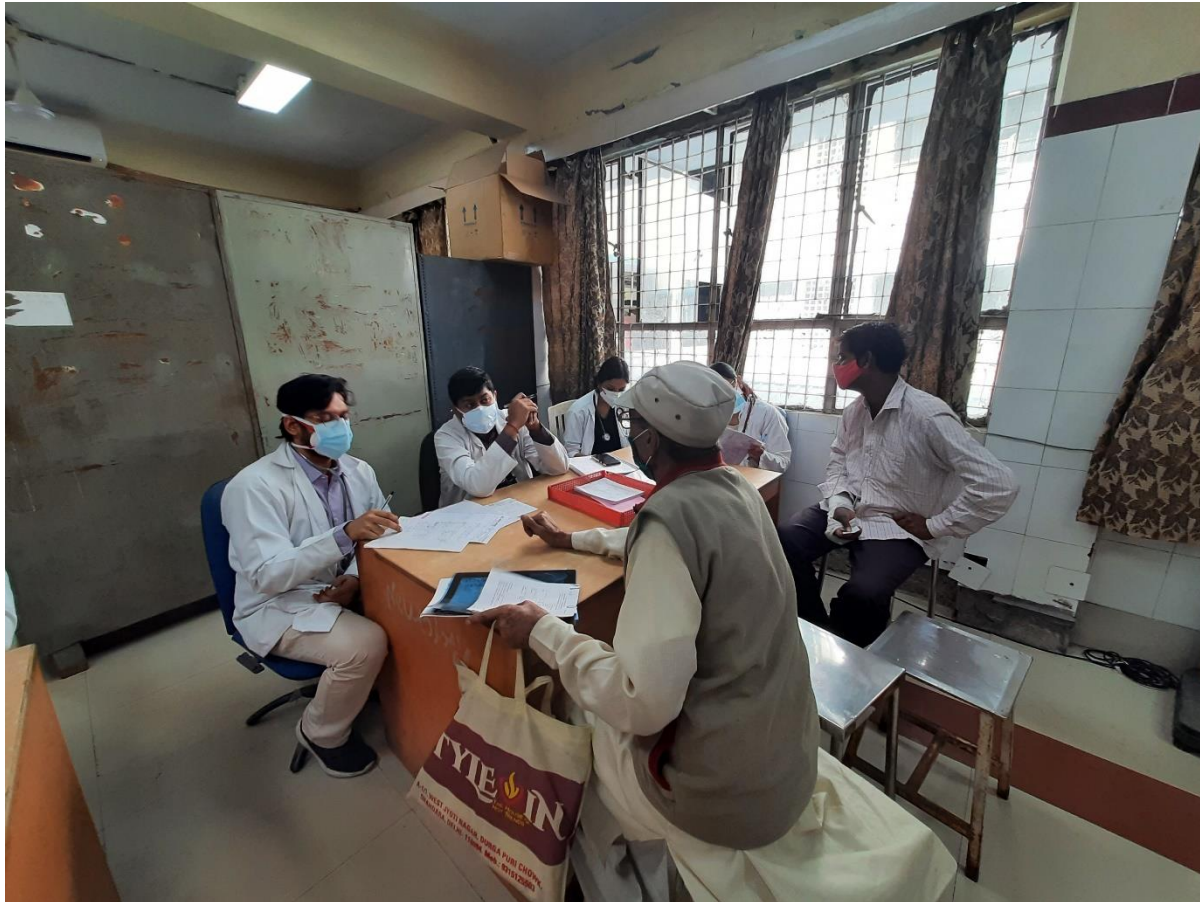


Patient Care Areas

Name of the Clinic	Weekday/s	Timings	Number of cases (Avg)	Name of Clinic In-charge
Pre-anaesthetic Clinic (Room No. 132, OPD block)	All working days (Mon - Sat)	8.00 AM- 2.00 PM	90-100 cases per day	One consultant every day by rotation
Pain Clinic (Room No. 132, OPD block)	Mon, Wed, Fri	2.00-4.00 PM	14 cases per clinic day	Prof. Ashok Kumar Saxena

OPD: PAC

- 2 rooms for PAC and Pain clinic



OPD: PAC

- Facility for patient examination
- Screen for patient privacy



OPD: Pain Clinic



Waiting area for patients



Waiting area outside the PAC and Pain clinic



Pre-operative rooms in the Operation Theatres

Clinical Workload

Particulars	Year 1 (2018)	Year 2 (2019)	Year 3 (2020: Hospital functioning as a COVID hospital).
Number of patients assessed pre-op (PAC)	29889	31442	7468
Number of Major operations	20,649	18,676	7,031
Number of Minor operations	38,185	36,096	4,542
Number of Day care operations	NA	NA	NA
Number of Caesarean sections	5,341	6,156	2,345
Number of patients seen in Pain Clinic	2060	3105	606
Number of procedures in Pain Clinic	73	73	37

Indoor: Main ICU

- 8 beds on the 2nd floor
- Presently under renovation
- Makeshift ICU on the 1st floor emergency area



ICU workload

Number of Beds	8 Beds (Main ICU) + 6 Beds (1 st floor Emergency postoperative area with the provision for management of critical patients) + 02 Beds (Gynae 3 rd floor Emergency postoperative area with provision for short term ventilation)
Average bed occupancy	99-100%
Available equipment	Adequate

Post-operative areas

- 39 beds
- Monitors available
- Oxygen and suction ports available



Post-operative areas

Number of beds	39
Average bed occupancy	The occupancy of these beds is dependent on the number of surgeries done on a certain day. These are specifically for recovery from Anaesthesia, till patients can be safely transferred to surgical wards for further care.
Available equipment	Monitors: 17 Defibrillator: 11 Syringe infusion pumps: 08

Equipment available

Equipment	Numbers / comments	Functional status
Anesthesia Work Stations	12 (with monitors); 27 (Boyles machine)	12/12 Functional 27/27 Functional
Multi-channel Monitor (with 2 probes)	36 (with capnographs) 18 (without capnography)	35/36 functional 18/18 functional
Fiberoptic Laryngoscope	02 Kings Vision videolaryngoscope	2/2 functional
Fiberoptic Bronchoscope Ambu scope	02 02	2/4 functional (02 under process of repair)
Resuscitation equipment (for teaching)	ATLS manikin cardiac trainer with laptop: 01 ATLS manikin trainer (AED trainer): 01	02/02 Functional

Equipment	Numbers / comments	Functional status
Any other equipment	<ul style="list-style-type: none"> ● AUTOPULSE (Noninvasive cardiac support pump with integrated defibrillator autopulse): 02 ● ICU ventilators: 85 ● High Flow Nasal Oxygen Cannulae with machines: 30 ● Syringe infusion pumps: 28 ● Immunoassay analyser (Radiometer):01 ● ABG machine:02 	<ul style="list-style-type: none"> ● 2/2 functional ● 80/85 functional ● 30/30 functional ● 26/28 functional ● 01/01 functional ● 01/02 functional
<p><i>In addition, there is a fully equipped advance Skill Lab which trains/holds BLS teaching programs at least once every 02 months (during pre COVID times).</i></p>		

Teaching Curriculum and Assessment

Theory classes	22 classes for first year PGs (2019) 16 classes for first year PGs (2020)
Clinical seminars	26 (In 2019) 8 (In 2020)
Tutorials	11 (In 2020): Equipment based 2 (In 2020): Endocrine system based 6 (In ongoing series): Drugs (03) and Respiratory system based (03)
Journal clubs	7 (In 2019) 2 (In 2020) 2 (In 2021)
Group discussions	Case discussions: 22 (In 2019-2020) 22 (In 2020-2021)
Assessment Theory Practical	At the end of each seminar list, as a 3 hour paper with maximum marks of 100 Informal evaluation by supervisor of student during routine clinical postings

Research Projects utilizing research labs

- Efficacy of intra-articular injection of platelet rich plasma and the modulation of mRNA expression of MAT2B gene in patients with early stage osteoarthritis knee: A prospective study
- A randomized double-blind comparative study evaluating the efficacy of a combination of pregabalin and duloxetine versus pregabalin alone and the modulation of mRNA expression of PPARG and Akt genes in patients of painful diabetic peripheral neuropathy
- A randomized comparative study evaluating the efficacy of pregabalin and duloxetine versus pregabalin and nortriptyline and the modulation of mRNA expression of HLA-A33 and HLA-B44 genes in patients of post-herpetic neuralgia
- Effect of preoperative oral carbohydrate on postoperative hyperglycemia in patients undergoing hip fracture surgery under combined spinal epidural anaesthesia

Department Publications (2018-2020)

S. No.	Name of faculty member	Total no. of publications	No. of original research
1	Prof. Ashok Kumar Saxena	12	07
2	Dr. Mahendra Kumar	01	01
3	Dr. R.S. Rautela	01	01
4	Dr. Sujata Chaudhary	01	01
5	Dr. Medha Mohta	13	07
6	Dr. Asha Tyagi	22	10
7	Dr. Geetanjali Chilkoti	07	04
8	Dr. Rashmi Salhotra	10	06
9	Dr. Ruchi Kapoor	02	---
10	Dr. Vibhor Gupta	01	01

1. **Saxena AK**, Khrolia D, Chilkoti GT, Gondode PG, Sharma T, Thakur G, Banerjee BD. Modulation of the extracellular Signal-Regulated Protein Kinase and Tissue Inhibitors of Matrix Metalloproteases-1 Gene in Chronic Neuropathic Pain. Accepted for publication in Indian J Palliat Care 2021.
2. Shaboo SS, **Saxena AK**, Choudhary S, Banerjee A, Behl A. Redefining the efficacy of USG guided pudendal nerve block in pudendal neuralgia in the vulnerable section of the society. Accepted for publication in Indian J Pain 2021.
3. Kaur N, Kumar R, Jain A, **Saxena AK**. Sensory changes and Postmastectomy Pain following preservation of intercostobrachial nerve in breast cancer surgery: a prospective randomized study. Indian J Surg Oncol 2020;1193-1195 doi [http:// doi.org/10.1007/s 13193-020-01193-5](http://doi.org/10.1007/s13193-020-01193-5)
4. **Saxena AK**, Chilkoti GT, Singh A, Yadav G. Pregnancy-induced low back pain in Indian women: Prevalence, risk factors, and correlation with serum calcium levels. Anesth Essays Res 2019 April-June;13: 395-402.
5. Chopra AK, Bajaj M, **Saxena AK**, Talwar H, Yadav N, Chilkoti GT. Pulsed Radiofrequency Lesioning at Multiple trigger Points around the scar for management of Chronic Persistent Postsurgical pain following Total Abdominal Hysterectomy and Laprotomy. Indian J Pain 2019;33:109-111 doi: 10.4103/ijpn.ijpn_22_19
6. **Saxena AK**, Jain PN, Bhatnagar S. The prevalence of chronic pain among adults in India. Indian J Palliat Care 2018; 24(4):472-477.
7. **Saxena AK**, Khrolia D, Chilkoti GT, Malhotra RK. Validation of Complete Hindi Version of DouleurNeuropathique 4 Questionnaire for Assessment of Neuropathic Pain. IJPC_340_20. Accepted for publication in Indian Journal of Palliative Care.

8. **Kumar M**, Thabrah R. Evaluation of analgesic effect of magnesium sulphate in intravenous regional anaesthesia- a double blind study. *J. Evid. Based Med. Healthc.* 2018; 5(36), 2616-2620. DOI: 10.18410/jebmh/2018/539.
9. **Mohta M**, Duggal S, Chilkoti GT. Randomised double-blind comparison of bolus phenylephrine or ephedrine for treatment of hypotension in women with pre-eclampsia undergoing caesarean section. *Anaesthesia.* 2018 Jul;73(7):839-846.
10. **Mohta M**, Dubey M, Malhotra RK, Tyagi A. Comparison of the potency of phenylephrine and norepinephrine bolus doses used to treat post-spinal hypotension during elective caesarean section. *Int J ObstetAnesth*2019 May;38:25-31.
11. **Mohta M**, Rani A, Sethi AK, Jain AK. Efficacy of local wound infiltration analgesia with ropivacaine and dexmedetomidine in tubercular spine surgery – A pilot randomised double-blind controlled trial. *Indian J Anaesth* 2019 March; 63 (3): 182-7.
12. **Mohta M**, Garg A, Chilkoti GT, Malhotra RK. A randomised controlled trial of phenylephrine and noradrenaline boluses for treatment of postspinal hypotension during elective caesarean section. *Anaesthesia* 2019 Jul; 74(7): 850-5.
13. Agarwal R, Yadav RK, **Mohta M**, Sikka M, Radhakrishnan G. Sepsis in Obstetrics Score (SOS) utility and validation for triaging patients with obstetric sepsis in the emergency department: Evidence from a low income health care setting. *Obstet Med.* 2019 Jun;12(2): 90-96.
14. Goyal P, Agarwal R, Srivastava H, Kar R, Sikka M, **Mohta M**. Serial Serum Lactic Acid in Pregnancy-Associated Sepsis for Maternal Outcome. *J ObstetGynaecol India.* 2020 Oct;70(5):342-348.
15. Agarwal R, Sharma K, Mehndiratta M, **Mohta M**, Srivastava H, Anthonio AE. Role of repeat procalcitonin estimation at 48 hours for outcome in pregnancy associated sepsis: a prospective observational study. *ObstetGynecol Sci.* 2021; 64 (1): 27-33.

16. **Tyagi A**, Ramanujam M, Sethi AK, Mohta M. Clinical utility of epidural volume extension following reduced intrathecal doses: a randomized controlled trial. *Brazilian J Anesth*. December 2020, <https://doi.org/10.1016/j.bjane.2020.12.005>.
17. Garg D, **Tyagi A**, Kumar M. Intraabdominal pressure and its relationship with organ dysfunction in patients scheduled for elective cesarean section: Effect of supine vs. lateral tilt position. Accepted for publication in *Acta Obstet Gynecol Scand*. <https://doi.org/10.1111/aogs.13965>
18. Chugh V, **Tyagi A**, Arora V, Tyagi A, Das S. Low tidal volume ventilation strategy and organ functions in patients with pre-existing systemic inflammatory response. *J Anaesthesiol Clin Pharmacol* 2019 Oct-Dec;35(4):460-467. doi: 10.4103/joacp.JOACP_112_18.
19. Luthra A, **Tyagi A**. [TIMP-2]*[IGFBP7] for predicting early AKI. *Anaesth Crit Care Pain Med*. 2019 Dec;38(6):677. doi: 10.1016/j.accpm.2018.11.011.
20. Arora V, **Tyagi A**, Ramanujam M, Luthra A. Intraabdominal Pressure in Non-laboring Preeclamptic vs. Normotensive Patients Undergoing Cesarean Section: A Prospective Observational Study. *Acta ObstetGynecol Scand*. 2019 Oct 23. doi: 10.1111/aogs.13757.
21. **Tyagi A**, Gupta YR, Das S, Rai G, Gupta A. Effect of Segmental Thoracic Epidural Block on Pancreatitis Induced Organ Dysfunction: A Preliminary Study. *IJCCM*; 2019 Jan: 23(2): 89-94. DOI: 10.5005/jp-journals-10071-23123.
22. **Tyagi A**, Verma G, Luthra A, Lahan S, Das S, Rai G, Sethi AK. Risk of Early Postoperative Acute Kidney Injury with Stroke Volume Variation Guided Tetrastarch versus Ringers Lactate. *Saudi J Anaesth*. 2019 Jan-Mar;13(1):9-15. doi: 10.4103/sja.SJA_410_18.

23. **Tyagi A**, Lahan S, Verma G, Das S, Kumar M. Role of Intra-Abdominal Pressure in Early Acute Kidney Injury: A Prospective Cohort Study in Critically ill Obstetric Patients. *Indian J Crit Care Med*. 2018 Aug;22(8):602-607.
24. Arora V, **Tyagi A**, Verma G. Prediction of outcome in perforation peritonitis: Sequential organ function assessment score and inflammatory mediators. *J Anaesthesiol Clin Pharmacol*. 2018 Apr-Jun;34(2):253-254. doi:10.4103/joacp.JOACP_91_17.
25. **Tyagi A**, Luthra A, Kumar M, Das S. Epidemiology of Acute Kidney Injury and Role of Urinary [TIMP-2] • [IGFBP7]: A Prospective Cohort Study in Critically Ill Obstetric Patients. *Int J ObstetAnesth*. 2018 Nov;36:77-84.
26. **Chilkoti GT**, Gondode P, Tiwari S. "MDI or Nebulization in moderate to severe Covid-19 disease with COPD: which one is better?" (ASJA-D-20-00107R2) has been accepted for publication in *Ain- Shams Journal of Anesthesiology*.
27. **Chilkoti GT**, Agarwal M, Mohta M, Saxena AK, Sharma CS, Ahmed Z. A randomised preliminary study to compare the performance of fiberoptic bronchoscope and laryngeal mask airway CTrach (LMA CTrach) for visualisation of laryngeal structures at the end of thyroidectomy. *Indian J Anaesth*. 2020;64(8):704-709.
28. **Chilkoti GT**, Karthik G, Rautela R. Evaluation of postoperative analgesic efficacy and perioperative hemodynamic changes with low dose intravenous dexmedetomidine infusion in patients undergoing laparoscopic cholecystectomy - A randomised, double-blinded, placebo-controlled trial. *J Anaesthesiol Clin Pharmacol*. 2020; 36(1):72-77.
29. **Chilkoti GT**, Kumar M, Mohta M, Saxena AK, Sharma N, Singh J. Comparison of postoperative analgesic efficacy of low-dose bolus intravenous dexmedetomidine and intraperitoneal dexmedetomidine with bupivacaine in patients undergoing laparoscopic cholecystectomy: A randomised, controlled trial. *Indian J Anaesth*. 2019; 63(2):106-113.

30. Dolma L, **Salhotra R**, Rautela RS, Banerjee A. Isobaric ropivacaine with or without dexmedetomidine for surgery of neck femur fracture under subarachnoid block. *J Anaesthesiol Clin Pharmacol*. 2018;34(4):518-523.
31. Kayina CA, **Salhotra R**, Sethi AK, Mohta M, Sharma AK. Postintubation Sequels: Influence of Fluticasone and Technique of Intra-Operative Muscle Relaxation. *Anesth Essays Res*. 2018;12(4):891-896.
32. Sethi AK, **Salhotra R**, Chandra M, Mohta M, Bhatt S, Kayina CA. Confirmation of placement of endotracheal tube – A comparative observational pilot study of three Ultrasound methods. *J Anaesthesiol Clin Pharmacol* 2019;35(3):353-8.
33. Tyagi A, Sethi AK, **Salhotra R**, Tyagi A. Nonpneumatic anti-shock garment versus intermittent sequential compression device for prevention of postspinal hypotension in patients undergoing cesarean section: A randomized controlled study. *Anesth Essays Res* 2019;13(4):383-8.
34. Das N, Kaur M, Chaudhary S, Kumar M, **Salhotra R**, Chauhan J. Magnesium sulphate as an adjuvant to epidural ropivacaine for postoperative analgesia in patients undergoing vaginal hysterectomy. *AcadAnesthesiol Int*. 2019; 4(2):25-9. (July-Dec)
35. Yadav N, Chaudhary S, Gahlot D, **Salhotra R**. Comparison of intrathecal hyperbaric bupivacaine, isobaric levobupivacaine and isobaric ropivacaine with fentanyl as adjuvant in knee arthroscopy: A randomised controlled study. *Indian Journal of Clinical Anaesthesia*. 2020;7(4):594-9.
36. **Gupta V**, Jain A, Gupta A, Hayaran N. Randomized Controlled Trial to study the effect of Intravenous Clonidine and Intravenous fentanyl on perioperative hemodynamics during laparoscopic cholecystectomy. *Mymensingh medical journal* .2019 Jan;28(1):230-

Thank You