

Department of Anaesthesiology, UCMS & GTB Hospital, Delhi

Evaluation report for NAAC visit

1	Name of the Department	Anaesthesiology
2	Year of establishment	1971
3	Is the Department part of a School/Faculty of the university?	Yes, UCMS, Delhi University
4	Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)	MBBS MS (Anaesthesia)
5	Interdisciplinary programmes and departments involved	Yes With Medicine and General Surgery
6	Courses in collaboration with other universities, industries, foreign institutions, etc.	No
7	Details of programmes discontinued, if any, with reasons	DNB (Anaesthesia) discontinued by GTB Hospital as per MCI guidelines
8	Examination System: Annual/Semester/Trimester/Choice Based Credit System	Annual summative examination at the end of 3 years
9	Participation of the department in the courses offered by other departments	Yes With Medicine, Surgery, Biochemistry, Microbiology and OBG
10	Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)	As per the table below

	Sanctioned		Filled		Actual (including CAS & MPS): Total
	GTBH	UCMS	GTBH	UCMS	
Professor	1	1	4	3	7
Associate Professors	2	2	1	1	2
Asst. Professors	7	5	0	0	0
Others (Senior Residents)	44	6	27	4	25

11	Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance	As per the table below
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S. No.	Name	Qualification	Designation	No. of Years of Experience
1	Dr. A K Sethi	D.A (1981), M.D (1983)	Director Professor & HOD	34 years
2	Dr. Ashok Kumar Saxena	D.A (1983), M.D (1985), FAMS (2003), FICA (2013)	Professor	32 years
3	Dr. Mahendra Kumar	D.A (1986), M.D (1989)	Director Professor	26 years
4	Dr. R S Rautela	M.D (1989)	Director Professor	25 years
5	Dr. Sujata Chaudhary	M.D (1992)	Director Professor	24 years
6	Dr. Medha Mohta	M.D (1992)	Director Professor	23 years 8 months
7	Dr. Asha Tyagi	M.D (1998), DNB (2000)	Director Professor	17 yrs 11 months
8	Dr. Geetanjali Tolia	MD (2005)	Associate Professor	8 years 2 months
9	Dr. Rashmi Salhotra	MD (2006)	Associate Professor	6 years 9 months

12	List of senior Visiting Fellows, adjunct faculty, emeritus professors	Nil
13	Percentage of classes taken by temporary faculty – programme-wise information	No temporary teachers. All classes are being taken by permanent faculty members
14	Programme-wise Student Teacher Ratio	MBBS 1:16 MD 1:1.33 (9 recognized teachers for 12 students each year)
15	Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual	As per Annexure I

16	Research thrust areas as recognized by major funding agencies	<ul style="list-style-type: none"> • Techniques of airway management • Oxygen therapy • Acute and chronic post-operative pain modulation • Vasopressors in Obstetric Anaesthesia • Markers of and role of fluid therapy in Acute Kidney injury
17	Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.	None
18	Inter-institutional collaborative projects and associated grants received a) National collaboration b) International collaboration	None
19	Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.	As per table below

Principal Investigator	Funding agency	Project	Grant
Asha Tyagi	SERB (2012-2015)	Effect of intra-op mechanical ventilation on systemic inflammatory response and postoperative organ failure in patients with pre-existing inflammatory response	23 lakhs

20	Research facility / centre with <ul style="list-style-type: none"> • state recognition • national recognition • international recognition 	No separate facility in the department Central Research facility in the institution
21	Special research laboratories sponsored by / created by industry or corporate bodies	No separate facility in the department
22	Publications: <ul style="list-style-type: none"> * Number of papers published in peer reviewed journals (national / international) * Monographs * Chapters in Books * Edited Books * Books with ISBN with details of publishers * Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) * Citation Index – range / average * SNIP * SJR * Impact Factor – range / average * h-index 	Annexure - II
23	Details of patents and income generated	None
24	Areas of consultancy and income generated	Not permitted
25	Faculty selected nationally / internationally to visit other laboratories / institutions /industries in India and abroad	Dr. Asha Tyagi for 1 month short term training in Transplant Anaesthesia and Critical Care; April 2015
26	Faculty serving in a) National committees b) International committees c) Editorial Boards d) any other (please specify)	As per table below

NAME (In alphabetical order of last name)	DISTINCTION
Mohta Medha	Editorial Board Member of World Journal of Critical Care Medicine
	Editorial Board Member of World Journal of Anesthesiology
Salhotra Rashmi	Invited reviewer for Indian Journal of Orthopaedics
	Invited reviewer for Biomedical Central Journals

Saxena Ashok Kumar	Global member of the committee of committees' (COC) for global issues relevant to the advancement of the therapeutics of chronic pain and cancer pain and for initiatives on the themes for "Global year against pain" from Oct 2014 to Oct 2018
	Subject expert and examiner for DNB the speciality of Anaesthesia for National Board of Examinations, MOH&FW, New Delhi
	Subject expert for selection of Faculty and promotional Interviews in Anaesthesiology at BHU, Varanasi on 12 th March 2016
	Member of Scientific program committee for the 15 th World Congress On Pain, held on October 7-11, 2014 at Buenos Aires, Argentina
	Initiated "Pain awareness and Pain education" and "awareness of anaesthesia for layman" through All India Radio, New Delhi, Radio Mirchi and Delhi Doordarshan.
	Expert Review Member of WHO Panel (Geneva, Switzerland, April 2008 & March 2012) for reviewing and updating "WHO Guidelines" on chronic pain management, cancer pain management and pediatric pain management
	Core Member of WHO Sponsored Teaching Module on Prevention and Control of Injury for UG Medical Education Curriculum
	Core member for training of trainers team for implementation in 8 th semester MBBS students' education curriculum at Lady Hardinge Medical College & University College of Medical Sciences, Delhi, India
	Chief Executive Editor (Jan 2008 to Feb. 2012) of the "Indian Journal of Pain", official Journal of the "Indian Society for the Study of Pain"
Sethi Ashok Kumar	Invited reviewer for Indian Journal of Anaesthesiology
	Member of the Advisory Board, Medical Journal, D.Y. Patil University, Kolhapur, Maharashtra.
	Expert Member for Delhi Medical Council, for giving expert opinion in relation to the complaints examined by Delhi Medical Council, Delhi
	Subject expert for the speciality of Anaesthesia for National Board of Examinations, MOH&FW, New Delhi.
	Speciality Expert/Advisor for selection of faculty members, vis. Assistant Professors, Associate Professors, Professors, Anaesthesiology at AIIMS, New Delhi, PGIMER, Chandigarh and Rajasthan Public Service Commission, Ajmer
	Member of the Expert committee constituted by the Principal Secretary Health, GNCT of Delhi, to strengthen the Intensive Care and Medical Gas Supply System in the hospitals of Govt. of NCT of Delhi.
	Member of the APEX Committee constituted by Principal Secretary Health, G NCT of Delhi, to make recommendations on identification of courses and curriculum for paramedicals
Tyagi Asha	Invited reviewer for national and international journals
	Editorial Board Member of World Journal of Anesthesiology

27	Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).	All faculty members attend conferences/ workshops/training programmes related to the speciality regularly. Workshops/training programmes regarding Medical Education/Teachers training conducted by Medical Education Unit (MEU) have been attended by Dr. A K Sethi; Dr. A K Saxena; Dr. Mahendra Kumar; Dr. Sujata Chaudhary; Dr. Medha Mohta; Dr. Asha Tyagi; Dr. Geetanjali Tolia; Dr. Rashmi Salhotra.
28	Student projects <ul style="list-style-type: none"> •percentage of students who have done in-house projects including inter-departmental projects • students doing projects in collaboration with other universities industry/ institute 	<ul style="list-style-type: none"> • Of all Postgraduate students, upto 50% conduct inter-departmental research, in collaboration with other departments • No ongoing projects in collaboration with other universities

29	Awards / recognitions received at the national and international level by <ul style="list-style-type: none"> • Faculty • Doctoral / post doctoral fellows • Students 	As per the table below
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NAME (In alphabetical order of last name)	AWARD	DATE RECEIVED
Faculty		
Mohta Medha	Commonwealth Fellowship in 'Trauma Anaesthesia and Critical Care' at London	October 2007 till April 2008.
	'Best Poster Presentation' in Free paper session during 58 th Annual National Conference of Indian Society of Anaesthesiologists held at Lucknow	December 2010
	Councillor of Indo-US Academic Council for Emergency and Trauma (ACET)	2009-2010
	Invited as a reviewer for "Short-term Studentship" projects by ICMR, New Delhi	December 2014
	Reviewed scientific articles for international and national journals	
	Nominated to 'Who's Who in the World 2009'.	2009
	Successfully completed ATLS provider course held at JPN Apex Trauma Center	23-25 Jul 2009
	Successfully completed ATLS instructor course held at JPN Apex Trauma Center	27-28 Apr 2009
Salhotra Rashmi	Successfully completed AHA accredited PALS provider course held at CNBC, Delhi	2009
	Successfully completed AHA accredited BLS/ACLS provider course held at MAMC, Delhi	2010
	Successfully completed AHA accredited BLS/ACLS instructor course held at MAMC, Delhi	2012
Saxena Ashok Kumar	State Award by Hon. Dy. CM and Health Minister, Govt. of Delhi, in recognition of significant contribution towards advancement of the basic understanding, clinical management, public awareness and research in the field of pain management in acute pain, chronic pain and cancer pain	20-10-15
	FICA (Fellow of Indian College of Anaesthesiologist)	2014
	"Academic award of Excellence" by DMA, Delhi during the 55 th Annual Delhi state Medical Conference	6-01-13
	Recognition of Membership of International Association for Study of Pain(IASP), Seattle, USA in Good Standing by President of IASP	2010
	Delivered Dr B G Tambe memorial Oration during the annual conference of Nagpur city branch of ISA	Jan 2012
	T N Jha Award for the best research paper (on a national basis, during annual conference ISACON held every year from Dec 26 to Dec 29) to four postgraduate MD students under guidance and supervision	2007, 2009 2012, 2015
	KOP's Award for best free paper in "Pain Management" section at National Annual Conference of ISA	December 2001 & 2003
	KOP's Award for best free paper in "Clinical Pharmacology section" at National Annual Conference of ISA	December 2003
	"Bhojraj Award" for the Best Review Article in Indian Journal of Anesthesia	29 -12-03
	FAMS (Fellow of Academy of Medical Sciences, India)	2003

Sethi Ashok Kumar	WHO Fellowship by Govt. of India in “Paediatric Anaesthesia” at Children Hospital under Harvard University, Boston, Massachusetts, USA	1995
	“Appreciation Award” by Honorable Minister of Health & Family Welfare, Delhi, in recognition of the distinguished services to GTB Hospital and UCMS, on the occasion of Doctor’s Day	01-07-2011
	“Dr. Pritam Singh Memorial Oration” – delivered the oration on “Perception of Difficult Airway in today’s anaesthetic practice: Need for Change!” during 13 th North Zone ISACON-2012 held at Government Medical College & Hospital, Chandigarh.	13-10-2012
	“Delhi State Award” for the Year 2011-12 given by Chief Minister Delhi State and Honorable Minister of Health & Family Welfare, Delhi, in recognition of his meritorious services in the field of health care in Delhi.	01-07-2013
	Speciality Expert/Advisor for selection of faculty members, vis. Assistant Professors, Associate Professors, Professors, Anaesthesiology etc. at AIIMS, New Delhi, PGIMER, Chandigarh and Rajasthan Public Service Commission, Ajmer	2013, 2015, 2016
Tolia Geetanjali	MAMS on at the Annual Conference of National Academy of Medical Sciences at AIIMS Patna	18-10-15
Tyagi Asha	“National KPR Young Anaesthesiologist award”, conferred by the Indian Society of Anaesthesiologists, Kerala state branch.	2004
	“Appreciation Award” awarded by Honorable Minister of Health & Family Welfare, Delhi, in recognition of the distinguished services to GTB Hospital and UCMS, on the occasion of Doctor’s Day	2012
	Research work conducted and presented under guidance adjudged as best research paper in 59 th National conference of Indian Society of Anaesthesia; Mumbai: (<i>Presentation of Research in Anaesthesia: Culmination into publication?</i>)	2011
	Research work conducted and presented under guidance adjudged as best research paper (poster – postgraduate section) in 1 st National conference of obstetric anaesthesia; Chennai: (<i>Role of patient position in Epidural Volume Extension</i>).	2008
	Case study conducted and presented under guidance adjudged as best research paper (poster) in 1 st National conference of obstetric anaesthesia; Chennai.	2008.
	Best Research Paper Presentation for “Perioperative problems in thoracic spine tuberculosis”, presented at Annual Conference of ISA Delhi chapter, held at Army Hospital, Delhi.	2007
	Won the T N Jha Memorial Award under guidance of Dr. A. K. Sethi for Best Scientific Research Paper presentation of the Year 1996, at Delhi State Level.	1996
	Won T N Jha Gold Medal Award under guidance of Dr. A. K. Sethi at the National Level for the best national scientific paper; Competition held at National Annual Conference of Indian Society of Anaesthesiologists at Hyderabad.	1996.
	Invited as a reviewer for “Short-term Studentship” projects by ICMR, New Delhi	2014 and 2015
Students in last academic year		
Singh Anshul	T. N. Jha National Award for the best research presentation” on a national basis during Annual National Conference of ISA held at Jaipur under guidance and supervision of Prof. Ashok Kumar Saxena	26 th to 29 th December 2015

30	Seminars/ Conferences/Workshops organized and source of funding (national /international) with details of outstanding participants, if any.	National level teaching programme: Examination Oriented Refresher Course for Anaesthesia Postgraduate students (EORCAPS) organized annually
31	Code of ethics for research followed by the departments	All clinical research is followed as per the internationally accepted Code of Ethics for Human Research stated in

		the Declaration of Helsinki. Further, all clinical research is conducted after approval of the Institutional Ethical Committee
32	Student profile programme-wise:	The department conducts the programme for MD in Anaesthesiology. Admission process for this programme is conducted by the Delhi University as per their laid rules and regulations. No detailed information regarding applicant details as these are available with the department.
33	Diversity of students	Admission process for the MD programme run by the department is conducted by the Delhi University as per their laid rules and regulations. No such information regarding applicant details as these are available with individual departments.
34	How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.	No such information is available with the department of Anaesthesiology.
35	Student progression	Not applicable to department of Anaesthesia.
36	Diversity of staff	As per the table below

Percentage of faculty who are graduates from	
The same university	5/9 (55.6%)
Other universities within the State	1/9 (11.1%)
Other universities from other States	3/9 (33.3%)
Universities outside the country	None

37	Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period	Not Applicable
38	Present details of departmental infrastructural facilities with regard to a) Library - Yes b) Internet facilities for staff and students – Yes c) Total number of class rooms - Seminar room with capacity to hold 50 students d) Class rooms with ICT facility - Nil e) Students' laboratories - Nil f) Research laboratories - Nil	
39	List of doctoral, post-doctoral students and Research Associates a) from the host institution/university b) from other institutions/universities	None
40	Number of post graduate students getting financial assistance from the university.	No such information available in Department of Anaesthesiology. All post graduate students get stipend from the university
41	Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.	NA
42	Does the department obtain feedback from a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? c. alumni & employers on programmes offered & how does the department utilize feedback?	There is a regular interaction amongst faculty members for improvement of the undergraduate and postgraduate teaching program. Feedbacks are obtained.
43	List the distinguished alumni of the department (maximum 10)	None

44	Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.	National level teaching programme: Examination Oriented Refresher Course for Anaesthesia Postgraduate Students (EORCAPS) organized annually.
45	List the teaching methods adopted by the faculty for different programmes.	1. Lectures/Didactic sessions 2. Small group interactive discussions 3. Problem based learning 4. Patient bedside teaching in operation theatres 5. Clinical rounds in ICU 6. Case discussions 7. Seminars
46	How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?	Formative assessment after each section of teaching schedule; followed by a feedback to students on their performance
47	Highlight the participation of students and faculty in extension activities.	Nil.
48	Give details of “beyond syllabus scholarly activities” of the department.	Nil.
49	State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.	No.
50	Briefly highlight contributions of the department in generating new knowledge, basic or applied.	Faculty members have many research papers, awards and distinctions to their credit.
51	Detail five major Strengths, Weaknesses, Opportunities and Challenges of the department.	As per the table below

Strengths	Weaknesses	Opportunities	Challenges
Qualified and experienced faculty	Lack of super-specialized departments.	Expansion to build super-specialized departments.	Budget allocation; space constraint; bureaucracy
Trainees are adult learners, motivated.	Inadequate advanced equipments to enhance skills.	Attract funds for research	Inability to drive “duty first” attitude
Good interpersonal relationships	Lack of dedicated in-department academic time for faculty; academic block; online access to wide range of academic material.	Allotting dedicated academic time/hours to faculty. Building academic block with shared resources for all departments such as teaching aids etc.	
Adequate Clinical material	Lack of electronic centralized health information system.	Building up a HIS to also improve transparency in clinical outcomes.	
Wide variation in patient presentation/good opportunities for trainee-patient interactions	Lack of consistent availability of essential medications/equipments; lack of in-house biomedical engineers for faster maintenance of equipment.	Building of a biomedical engineering wing for in-house maintenance of equipment.	

52	Future plans of the department.	<ul style="list-style-type: none"> • Strengthening infrastructure in ICU, OT, Post Anaesthesia care services, PAC and Pain Clinic • Developing facilities for specialized anaesthesia services for super-specialities. • Developing facilities for HDUs
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Annexure I

Support Staff from UCMS = 1 Post (Library Attendants) - Mr. Vineet Kumar Choudhary

Support Staff from GTBH = Details of follows:-

S. No.	Name	Designation
1	Sh. Jagbir Singh	Tech. Supervisor
2	Shri Yogesh Kr. Chauhan	Tech. Supervisor
3	Shri Rajender Singh	Tech. Supervisor
4	Shri Dushyant Garg	Tech. Asstt
5	Shri Hira Singh	Technician
6	Shri Surbir Singh	Technician
7	Shri Jagdish-I	Technician
8	ShriRamaShankarManjhi	Technician
9	Shri Giri Raj Singh	Technician
10	Shri Jagdish Kr-II	Technician
11	Shri Charan Singh	Technician
12	Shri Mohan Singh	Technician
13	Shri D.N. Prasad	Technician
14	Shri Jagdeshwar Dutt	Technician
15	Shri R.K Thakur	Technician
16	Shri Ram Swaroop	Technician
17	Shri Navin Chandra	Technician
18	ShriGyan Chand Thakur	Technician
19	Shri Bhola Nath	Technician
20	Shri Vinit Kumar	Technician
21	Shri Keshav Pal Singh	Technician
22	Shri Balbir Singh	Technician
23	Sh. Prem Babu	Technician
24	Smt. Meena Rani Malik	Technician
25	Sh. Tribhu Nath Prasad	Technician
26	Sh. Surender Kumar	Technician
27	Sh.JagdishK-III S/o Shri Mukandhilal	Technician
28	Smt. Kamla Devi	Technician
29	Shri Rajeev Kumar Khuba	Technician
30	Shri Ashwani Kumar	Technician

31	Shri Shiv Prasad	Technician
32	Shri Maqsood Alam	Technician
33	Smt. Meenakshi	Technician
34	Sh. Deepak Kumar	Asstt.
35	Smt. Heerawati	Asstt.
36	Smt. Sheela Saini	Asstt.
37	Sh. Rohtash Kumar	Asstt.
38	Sh. Suresh Chand	Asstt.
39	Sh. Rajender Kumar II	Asstt.
40	Sh. Md. Khusnood	Asstt.
41	Smt. Ranjana Verma	Asstt.
42	Smt. Saroj Bala	Asstt.
43	Smt. Mehroo Nisha	Asstt.
44	Sh. Md Israil	Asstt.
45	Smt. Savitri Devi	Asstt.
46	Sh. Ram Phal	Asstt.
47	Sh. Ram Kishor	Asstt.
48	Sh. R.P. Sharma	Asstt.
49	Sh. O.P. Jagga	Asstt.
50	Sh. Krishan Gopal	Asstt.
51	Sh. Sunil Kumar	Asstt.
52	Smt. Sunita Khanna	Asstt.
53	Sh. Kewala Nand	Asstt.
54	Sh. Vipin kumar	Asstt.
55	Sh. Gulab Chand	Asstt.
56	Smt. Geeta Paswan	Asstt.
57	Smt. Devki	Asstt.
58	Sh. S.N. Chaudhary	Asstt.
59	Sh. Rameshwar Manjhi	Asstt.
60	Sh. Om Prakash-II	Asstt.
61	Smt. Usha Rani	Asstt.
62	Sh. Birrender Singh Rawat	Asstt.
63	Smt. Parveen Kumari	Asstt.

64	Smt Ramwati	Asstt.
65	Smt. Saroj Bhaskar	Asstt.
66	Smt. Sunita B.L.	Asstt.
67	Sh. Mahesh Kumar	Asstt.
68	Smt. Elizabeth Khatri	Asstt.
69	Sh.RajenderKumar, S/o Jumma Singh	Asstt.
70	Sh. Dalip Kumar	Asstt.
71	Smt.. Lakshmi	Asstt.
72	Shri Bhagwan Dass	Asstt.
73	Shri Dharam Pal Singh	Asstt.
74	Shri Sri krishan	Asstt.
75	Shri K.Murugesan	Asstt.
76	Shri Jagat Singh Kaira	Asstt.
77	Shr Jagdish Parsad	Asstt.
78	Shri Raju	Asstt.
79	Shri Nagpal Singh	Asstt.
80	Smt. K.Bhoomi	Asstt.
81	Smt. Nirmala	Asstt.
82	Smt. Sarla Rani	Asstt.
83	Smt. Vijay Laxmi	Asstt.
84	Smt. Kamla Gautam	Asstt.
85	Smt. Bhagwati	Asstt.
86	Shri Mahavir	Asstt.
87	Sh.Madan Lal	Asstt.
88	Sh.Anit Kumar	Asstt.
89	Sh.Yusaf Danial Singh.	Asstt.
90	Sh.Bir Singh	Asstt.
91	Sh. Ashwini Kumar	Asstt.
92	Sh. Rajpal	Asstt.
93	Sh. Yogesh Kumar	Asstt.
94	Sh. Subhash	Asstt.
95	G Samiwel	Asstt.
96	Hansraj	Asstt.

97	Jai Karan	Asstt.
98	Janesh Kumar	Asstt.
99	Shri.Ratnesh Prasad	OT Assistant (contract)
100	Shri Yogesh Kalra	OT Assistant (contract)
101	Shri. Mukesh Antil	OT Assistant (contract)
102	Shri.Sudhir Kumar	OT Assistant (contract)
103	Shri.Md.A. Chaudhary	OT Assistant (contract)
104	Shri.Amit Jha	OT Assistant (contract)
105	Shri.Neeraj Kumar	OT Assistant (contract)
106	Sh. Raj Pal	O.T. Attendant
107	Sh. Diwan Singh	O.T. Attendant
108	Shri Chander Shekhar	O.T. Attendant
109	Smt. Rekha Jain	O.T. Attendant
110	Sh. Narender Kumar	O.T. Attendant
111	Sh. Harka Bahadur	O.T.Attendant (M.S.Office)

Annexure II

Indexed Journals:

1. Saxena AK, Lakshman K, Sharma T, Gupta N, Banerjee BD, Singal A.
Modulation of serum BDNF levels following an integrated multimodal approach using pulsed radiofrequency lesioning of intercostal nerve and pregabalin in thoracic Postherpetic neuralgia : a randomized, double blind controlled study. *Pain Management* 2016 May;6(3):217-27. doi: 10.2217/pmt.16.3. Epub 2016 Mar 30.PMID:27094801
2. Nasare N V,i Mediratta P K , Banerjee B D , Deshmukh P S, Saxena A K, Bhattacharya S N, Ahmed R S .Translational Medicine: Impact on CYP2D6 polymorphism with respect to Tramadol treatment in post herpetic neuralgia. *World Journal of Pharmacy and Pharmaceutical Sciences*. 2016;5(3), 377-419.
3. Saxena AK, Chilkoti G, Oberoi N. Back pain in pregnancy. Accepted for publication in *Korean Journal of Pain* 2016.
4. Chilkoti G, Saxena AK. Anaesthetic management of unstable cervical spine – Is Intubating LMA C Trach a right choice? Accepted for publication in *J. of American Assoc. of NA* 2016.
5. Chilkoti G, Wadhwa R, Saxena AK. Technological advances in perioperative monitoring: Current concepts and clinical perspectives. *J Anaesthesiol Clin Pharmacol*. 2015;31(1):14-24.
6. Chilkoti G, Wadhwa R, Kumar A. Status of problem based learning in
7. postgraduate anesthesia teaching: A cross-sectional survey. *Saudi J Anaesth*. 2015 ; 9(1): 64-70
8. Nath S, Kapoor R, Saxena A K. Successful management of Achondroplastic Dwarf for emergency caesarean section using intrathecal clonidine. *Journal of Anaesthesia and Critical Care Case Reports*. 2015; 1: 9-11.
9. Saxena A K, Nath S and Kapoor R. Diabetic Peripheral Neuropathy: Current Concepts and Future Perspectives. *Journal of Endocrinology and Diabetes* 2015; 2 (5): 1-18
10. Chilkoti G, Wadhwa R, Saxena A, Khurana P. Could pregabalin premedication predispose to perioperative atrial fibrillation in patients with sepsis? *Saudi J Anaesth*. 2014;8(Suppl 1):S115-6.
11. Chilkoti G, Mohta M, Wadhwa R, Saxena AK. Problem-based learning research in anesthesia teaching: current status and future perspective. *Anesthesiol Res Pract*. 2014;2014:263948

12. Dureja GP, Jain PN, Shetty N, Mandal SP, Prabhu R, Joshi M, Goswami S, Natarajan KB, Iyer R, Tanna DD, Ghosh P, Saxena A, Kadhe G, Phansalkar AA . Prevalance of Chronic Pain, Impact on daily life, and Treatment Practices in India. *Pain Practice* 2014;14(2):E51-E62
13. Saxena Kr. Ashok, Nasare Namita, Jain Smita; Dhakate Gaurav, Ahmed S Rafat , Bhattacharya N Sambit, Mediratta Kumari Pramod, Banerjee Basu Dev . A Randomized, Prospective study of Efficacy and Safety of Oral Tramadol in the Management of Post Herpetic Neuralgia in patients from North India. *Pain Practice* 2013 ;13(4):264-275
14. Nasare N , Banerjee Basu Dev ,Deshmukh Pravin, Mediratta PK, Saxena Ashok Kumar, Ahmed Rafat S, Bhattacharya SN . CYP2D6 Gene Polymorphism and therapeutic efficacy following oral Tramadol and Pregabalin Medication for Management of Post Herpetic Neuralgia. *American Journal of Therapeutics*, 2013 doi:10.1097/MJT.0b13e31826fc491)
15. Saxena Kumar Ashok. Failed Back Surgery Syndrome : Current Concepts, Evidence and Future Perspectives. *Int J Perioper Ultrasound & App Technologies* 2013; 2 (2): 64-69
16. Nasare N, Banerjee BD, Mediratta PK, Saxena AK, Ahmed RS, Bhattacharya SN. CYP2D6*2 Polymorphism as a Predictor of Failed Outpatient Tramadol Therapy in Postherpetic Neuralgia Patients. *American Journal of Therapeutics* 2013; 1-11.
17. Saxena A K, Mandhyan R. Multimodal Approach for the Management of Hunan Hand Syndrome : a Case Report. *Pain Practice* 2013 ; 13:227-230
18. Ahuja S, Yadav S, Joshi N, Chaudhary S, Madhu SV. Efficacy of caudal fentanyl and ketamine on postoperative pain and neuroendocrine response in children undergoing infraumbilical and perineal surgery: A pilot study . *J Anaesthesiol Clin Pharmacol* 2015;31:104-9.
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