

CURRICULUM VITAE

Dr. Rakesh V. Sondekoppam
MBBS, MD (Anesthesiology)

Personal Profile

Last Name : Sondekoppam Vijayashankar
Given Name : Rakesh
Date of Birth : 28th May 1982
Address : 11103 84 ave nw, Edmonton, Alberta, Canada- T6G2X4
Contact No : +1-519-639-7585
Email Id : rakesh6282@gmail.com

Academic Qualifications and Licensure

ECFMG certification	May 2018	
MD (Anesthesiology)	June 2010	Postgraduate Institute of Medical Education & Research (PGIMER), Chandigarh, India
MBBS	March 2004	Sri Siddartha Medical College, Tumkur Karnataka, INDIA

Current licensure:

- College of Physicians and Surgeons of Alberta (Licensure number: 026320; MINC NO.: CAMD-0124-2848)

Registration with Professional Organizations

- **Member of Canadian Anesthesiology Society (CAS), No:66026**
- **Member of American Society of Anesthesiology: 1146561**
- **Member of American Society of Regional Anesthesia and Pain Medicine**
- **Life member of Indian Society of Anesthesiologists, No: R-1799**
- **Life Member of Indian Society for Study of pain (ISSP), No: R-129**

Professional Experience

- **Assistant professor** in Anesthesia at the University of Alberta, Edmonton, Alberta, Canada Starting (working since Jan 2016)
- **Assistant professor** in Anesthesia at the University of Western Ontario, London, Ontario Canada Starting from July 2014 - Jan 2016
- **Clinical fellow in regional anesthesia** at the university of western Ontario, London, Ontario Canada for the year 2012-13 and 2013-14.
- **Senior Registrar (Senior resident):** Worked as Registrar in Dept of Anesthesia, PGIMER, Chandigarh, India, from July 2010 June 2012
- **SHO (Junior resident): July 2007 to June 2010,** Dept of Anesthesia, PGIMER Chandigarh, India
- **Medical officer (post MBBS):** May 2005 to march 2007 at Venlak hospital (private hospital), Bangalore, India
- **PRHO (Pre-registration house officer):** April 2004 to March 2005, Hospitals attached to Sri Siddartha Medical College , Tumkur, Karnataka, INDIA

Career Plans

Following my 2 year fellowship in regional anesthesia and acute pain medicine at the Western University, London, On, Canada, I have been actively involved in the research endeavors of the regional anesthesia division of the department. I have also been involved in the education activities such as the conduct of anatomy lab for regional anesthesia trainees and the weekly CME/ PBLD activities, all of which I would be passionate to continue. My area of focus will be to pursue clinical and basic science research in Regional Anesthesia and acute pain medicine. I am also passionate in pursuing sustainable practices in anesthesia.

Key Skills

- Basic life support & Advanced Cardiac Life Support
- Venipuncture / Central vein cannulation and Peripheral artery cannulation
- Pulmonary Artery catheterization (under supervision)
- Central Neuraxial Blocks and Peripheral nerve Blocks including ultrasound guided nerve blocks and pediatric neuraxial blocks
- Epidural catheterization (Lumbar and Thoracic)
- Nasotracheal and Endotracheal intubations (Adult, Pediatric and Neonatal)
- Management of Ventilators and its accessories
- Transportation of critically ill patients
- Management of difficult airway and labor analgesia

Clinical Experience

Pre-registration house officer : 30. April.2004 to 29. April.2005

I did one year of rotatory internship in the hospitals attached to Sri Siddartha Medical College, Tumkur, Karnataka, INDIA. It is a 600 bedded multi-speciality hospital with attachment to district general hospital, Tumkur. This included structured training program in medicine, surgery, obstetrics & gynecology, community medicine, pediatrics and basic sciences.

Post-graduate resident clinical training (Senior House Officer Equivalent)

- Basic skills for administration of safe anesthesia
- Complete perioperative anesthetic management of patients under supervision of Senior Residents.
- The weekly on-call duties in the emergency theatres were valuable in gaining experience in the management of patients with polytrauma, head injuries and surgical emergencies.
- The obstetrics weekly on-call duty, lasting for a period of one year, required providing anesthesia services for both emergency and elective caesarean sections. Labour analgesia was also a part of the services provided.
- Presenting as well as attending seminars, journal clubs and case discussions.
- Awarded **MD degree** in Anesthesia at the end of the structured program.

Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh, India is one of the prestigious apex referral centers, about 1500 bedded teaching hospital established in 1962. It provides physical and intellectual milieu for young scientists working in various fields of medicine to advance their knowledge and clinical skills at the same time providing a platform for research and audit. The hospital also has facilities to train paramedical and allied staff too. It renders excellent health services to the sick and suffering.

Senior Resident (Registrar Equivalent): July 2010 to June 2012

Worked as Senior Resident in The Department of Anesthesia, PGIMER, Chandigarh from July 2010 to June 2012. I am exposed to the same clinical cases as during the junior residency, but with a higher level of responsibility. Under the guidance of consultants, I have been allowed to independently manage the emergency operation theatre, trauma theatre and the intensive care unit (ICU) for one month each.

- Preoperative assessment and preparation, intra-operative anesthetic management, postoperative care and pain relief.
- Moderating seminars and journal discussion & managing departmental meetings.
- Conducting classes for allied medical staff and junior residents & Teaching Cardio-Pulmonary Resuscitation.
- Refining administrative skills and personality development.

- Research programs.
- Fine tuning of basic skills and advanced training in specialties.
- **Rotations: Since July 2010 as Senior Resident**

THESIS: *“Intrathecal Clonidine or Clonidine-Fentanyl combination with hyperbaric bupivacaine for lower abdominal and urogenital surgeries in infants” submitted for the award of the degree of M.D (Anaesthesia) on Dec 31st 2009.*

Additional qualifications

- Currently pursuing Masters (MSc) in clinical trials from the University of London (UK).

Publications (Medline Indexed)

1. Batra YK, **Rakesh SV**, Panda NB, Lokesh VC, Subramanyam R. Intrathecal clonidine decreases propofol sedation requirements during spinal anesthesia in infants. Paediatr Anaesth. 2010 Jul;20(7):625-32.
2. Harjeet K, Aggarwal A, Sahni D, Batra YK, **Rakesh SV**, Subramanyam R. Anatomical dimensions of larynx, epiglottis and cricoid cartilage in fetuses and their relationship with crown rump length. Surg Radiol Anat. 2010 Aug;32(7):675-81.
3. **Rakesh SV**, Rajeev S, Batra YK, Rao KL. Cephalad migration of intrathecal clonidine in an infant undergoing bilateral herniorrhaphy. Can J Anaesth. 2009 Aug;56(8):629-30.
4. Rajeev Subramanyam, Yatindra Batra Kumar, **Rakesh S V**, Nidhi B Panda, Lokesh V C. Spring 2010 Abstracts titles: **“Intrathecal clonidine decreases propofol sedation requirements during spinal anesthesia in infants”**. Regional Anesthesia & Pain Medicine. 2010 September/October; 35 (5): 459-470.
5. Batra YK, **Rakesh SV**, Menon P, Rao KL. Successful airway management with left-molar laryngoscopy in glossopalatal ankylosis: A case Report. Acta Anaesthesiol Belg. 2010;61(4):215-6.
6. Kataria S, **Rakesh SV**, Panda NB, Bhagat H, Mukherjee KK, Yadav TD. Effect of pneumoperitoneum on intracranial pressure during supratentorial craniotomy: a case report. Acta Anaesthesiol Belg. 2010;61(4):217-20.
7. Aggarwal A, Harjeet K, Sahni D, Batra Y K, **Rakesh S V**. Rare Anatomical variation of brachial plexus: Single cord anomaly. Anesth Analg. 2012 Feb;114(2):466-70.
8. Aggarwal A, Sahni D, Kaur H, Batra YK, **Sondekoppam Vijayashankar R**. The caudal space in fetuses: an anatomical study. J Anesth. 2012 Apr;26(2):206-12.
9. **Sondekoppam RV**, Kajal K, Jain K, Bhatia N. Open safety pin causing fatal pneumopericardium: the effect of positive-pressure ventilation. Paediatr Anaesth. 2012 Jun;22(6):589-91.
10. **Rakesh S V**, Batra Y K. Cervical epidural anesthesia in post stroke patients : are we safe? Acta Anaesth. Belg., 2012, 63, 51-53.
11. **Rakesh S V**, Komal G, Batra Y K. Etomidate induced agitation during intraoperative sedation. Accepted for publication in Saudi journal of anaesthesia
12. Thevaraja A, Batra Y K, **Sondekoppam R V**, Nidhi B Panda, Katragadda L N Rao, Monica Chhabra and Mayank Aggarwal. Comparison of low dose ketamine to

- midazolam for sedation during paediatric urodynamic study. *Paediatr Anaesth.* 2013 May;23(5):415-21.
13. **Sondekoppam** RV, Batohi P. Utilizing sampled gas to decrease fresh gas flow. *Br J Anaesth.* 2013 Jun;110(6):1063-4.
 14. **Sondekoppam** RV, Brookes J, Terlecki M, Uppal V, Ganapathy S. Intracatheter air in continuous thoracic paravertebral block: distraction or assistance? *Can J Anaesth.* 2013 Aug;60(8):824-5
 15. **Sondekoppam** RV, Ganapathy S. Comments on "Analgesic efficacy of ultrasound-guided adductor canal blockade after arthroscopic anterior cruciate ligament reconstruction." *Eur J Anaesthesiol.* 2013 Oct 12
 16. **Sondekoppam** RV, Kanwar M, Latha YS, Mandal B. High dose streptokinase for thrombolysis in the immediate postoperative period: a case report. *Middle East J Anesthesiol.* 2013 Jun;22(2):207-11.
 17. **Sondekoppam** RV, Arellano R, Ganapathy S, Cheng D. Pain and inflammatory response following off-pump coronary artery bypass grafting. *Curr Opin Anaesthesiol.* 2013 Dec 7. [Epub ahead of print]
 18. **Sondekoppam** RV, Uppal V, Ganapathy S. Intravenous or perineural dexamethasone for interscalene brachial plexus block: the equivalence not yet proven. *Br J Anaesth.* 2014 Jan;112(1):175-6
 19. Uppal V, **Sondekoppam** RV, Ganapathy S Permanent diaphragm paralysis after shoulder rotator cuff repair: interscalene block is not the only factor. *Anesthesiology.* 2014 Apr;120(4):1054-6.
 20. Chen EC, Ameri G, Li H, **Sondekoppam** RV, Ganapathy S, Peters TM. Navigated simulator for spinal needle interventions. *Stud Health Technol Inform.* 2014;196:56-60.
 21. Hafeez NS, **Sondekoppam** RV, Ganapathy S, Armstrong JE, Shimizu M, Johnson M, Merrifield P, Galil KA. Ultrasound-guided greater palatine nerve block: a case series of anatomical descriptions and clinical evaluations. *Anesth Analg.* 2014 Sep;119(3):726-30.
 22. Uppal V, **Sondekoppam** RV, Ganapathy S. Effect of beam steering on the visibility of echogenic and non-echogenic needles: a laboratory study. *Can J Anaesth.* 2014 Oct;61(10):909-915.
 23. **Sondekoppam** RV, Brookes J, Morris L, Johnson M, Ganapathy S. Injectate spread following ultrasound-guided lateral to medial approach for dual transversus abdominis plane blocks. *Acta Anaesthesiol Scand.* 2015 Jan 13.
 24. Aggarwal A, Kaur H, Gupta T, Tubbs RS, Sahni D, Batra YK, **Sondekoppam** RV. Anatomical study of the infraorbital foramen: A Basis for Successful Infraorbital Nerve Block. *Clin Anat.* 2015 Jun 28. doi: 10.1002/ca.22558. [Epub ahead of print]
 25. Galil KA, Hafeez NS, Ganapathy S, **Sondekoppam** R, Johnson M, Merrifield P. Anatomical variations of the greater palatine nerve in the greater palatine canal. *J Can Dent Assoc.* 2015 Jul;81:f14.
 26. Dhir S, **Sondekoppam** RV. Reply to Dr Price. *Reg Anesth Pain Med.* 2017 Jan/Feb;42(1):123.

27. **Sondekoppam RV**, Lopera-Velasquez LM, Naik L, Ganapathy S. Subscapularis and sub-omohyoid plane blocks: an alternative to peripheral nerve blocks for shoulder analgesia. *Br J Anaesth*. 2016 Dec;117(6):831-832.
28. Johnston DF, **Sondekoppam RV**. Continuous quadratus lumborum block analgesia for total hip arthroplasty revision. *J Clin Anesth*. 2016 Dec;35:235-237.
29. Naik L, Bhardwaj N, Sen IM, **Sondekoppam RV**. Intubation Success through I-Gel® and Intubating Laryngeal Mask Airway® Using Flexible Silicone Tubes: A Randomised Noninferiority Trial. *Anesthesiol Res Pract*. 2016;2016:7318595.
30. Dhir S, **Sondekoppam RV**, Sharma R, Ganapathy S, Athwal GS. A Comparison of Combined Suprascapular and Axillary Nerve Blocks to Interscalene Nerve Block for Analgesia in Arthroscopic Shoulder Surgery: An Equivalence Study. *Reg Anesth Pain Med*. 2016 Sep-Oct;41(5):564-71.
31. Naik LY, **Sondekoppam RV**, Jenkin Tsui J, Tsui BC. An ultrasound-guided ABCDE approach with a sniff test to evaluate diaphragmatic function without acoustic windows. *Can J Anaesth*. 2016 Oct;63(10):1199-200.
32. Brookes J, **Sondekoppam R**, Armstrong K, Uppal V, Dhir S, Terlecki M, Ganapathy S. Comparative evaluation of the visibility and block characteristics of a stimulating needle and catheter vs an echogenic needle and catheter for sciatic nerve block with a low-frequency ultrasound probe. *Br J Anaesth*. 2015 Dec;115(6):912-9. doi: 10.1093/bja/aev351.
33. Ganapathy S, **Sondekoppam RV**, Terlecki M, Brookes J, Das Adhikary S, Subramanian L. Comparison of efficacy and safety of lateral-to-medial continuous transversus abdominis plane block with thoracic epidural analgesia in patients undergoing abdominal surgery: A randomised, open-label feasibility study. *Eur J Anaesthesiol*. 2015 Nov;32(11):797-804.
34. **Sondekoppam RV**, Tsui BCH. Factors Associated With Risk of Neurologic Complications After Peripheral Nerve Blocks: A Systematic Review. *Anesth Analg*. 2017 Feb;124(2):645-660.
35. **Sondekoppam RV**, Naik L, Tsui J, Tsui BC. Proper use and interpretation of diaphragmatic ultrasonography. *Can J Anaesth*. 2017 May;64(5):548-549.
36. Kumar V, Arya VK, **Sondekoppam RV**, Arora S, Minz M, Garg R, Gupta N. Effect of discontinuing morning dose of antihypertensive for renal transplant surgery on haemodynamic and early graft functioning: A prospective, double-blind, randomised study. *Indian J Anaesth*. 2017 Feb;61(2):150-156.
37. **Sondekoppam RV**, Quan D, Ganapathy S. Temporary Decompression of Symptomatic Epidural Hematoma via an In Situ Epidural Catheter: A Case Report. *A A Case Rep*. 2017 Aug 15;9(4):123-126.
38. Johnston DF, **Sondekoppam RV**, Uppal V, Howard JL, Ganapathy S. Hybrid Blocks for Total Knee Arthroplasty: A Technical Description. *Clin J Pain*. 2018 Mar;34(3):222-230.

39. **Sondekoppam RV**, Dhir S. Reply to Marty et al. *Reg Anesth Pain Med*. 2017 Mar/Apr;42(2):274-275.
40. Johnston DF, **Sondekoppam RV**. Single-Injection Technique for Medial Parapatellar Arthrotomy. *Reg Anesth Pain Med*. 2017 Jul/Aug;42(4):542-543.
41. Uppal V, **Sondekoppam RV**, Sodhi P, Johnston D, Ganapathy S. Single-Injection Versus Multiple-Injection Technique of Ultrasound-Guided Paravertebral Blocks: A Randomized Controlled Study Comparing Dermatomal Spread. *Reg Anesth Pain Med*. 2017 Sep/Oct;42(5):575-581.
42. Sogbein OA, **Sondekoppam RV**, Bryant D, Johnston DF, Vasarhelyi EM, MacDonald S, Lanting B, Ganapathy S, Howard JL. Ultrasound-Guided Motor-Sparing Knee Blocks for Postoperative Analgesia Following Total Knee Arthroplasty: A Randomized Blinded Study. *J Bone Joint Surg Am*. 2017 Aug 2;99(15):1274-1281.
43. Uppal V, Kalagara HKP, **Sondekoppam RV**. Tips and tricks to improve the safety of the retroclavicular brachial plexus block. *Am J Emerg Med*. 2017 Sep 29. pii: S0735-6757(17)30801-X.
44. Johnston DF, **Sondekoppam RV**, Giffin R, Litchfield R, Ganapathy S. Determination of ED50 and ED95 of 0.5% Ropivacaine in Adductor Canal Block to Produce Quadriceps Weakness: A Dose-Finding Study. *Reg Anesth Pain Med*. 2017 Nov/Dec;42(6):731-736.
45. Özelsel T, **Sondekoppam RV**, Ip VHY, Tsui BCH. Coming of Age for "Green" Anesthesia: The Leading Role of Regional Anesthesia. *Reg Anesth Pain Med*. 2017 Nov/Dec;42(6):799-800.
46. Prabhakar C, Uppal V, **Sondekoppam RV**. Effect of Beam Steering on Echogenic and Nonechogenic Needle Visibility at 40°, 50°, and 60° Needle Insertion Angles. *Anesth Analg*. 2017 Nov 7. doi: 10.1213/ANE.0000000000002618. [Epub ahead of print]
47. **Sondekoppam RV**, Ip V, Johnston DF, Uppal V, Johnson M, Ganapathy S, Tsui BCH. Ultrasound-guided lateral-medial transmuscular quadratus lumborum block for analgesia following anterior iliac crest bone graft harvesting: a clinical and anatomical study. *Can J Anaesth*. 2018 Feb;65(2):178-187.
48. Dillane D, Ozelsel T, Green J, Lapere C, Halliday S, **Sondekoppam R**. Anterior Suprascapular Nerve Block or Low-Volume Supraclavicular Nerve Block? *Reg Anesth Pain Med*. 2018 Jan;43(1):98.
49. Özelsel T, **Sondekoppam RV**, Ip V, Klaver-Kibria J, Mack C. "If I had a million dollars...": The curious incident of a city, a forest, and sustainable anesthesia. *Can J Anaesth*. 2019 Jan 3. doi: 10.1007/s12630-018-01284-6. [Epub ahead of print]
50. Tsui BCH, Ip V, **Sondekoppam RV**. In reply: Iliac crest bone graft donor site analgesia: a new indication for erector spinae plane block. *Can J Anaesth*. 2018 Dec 17. doi: 10.1007/s12630-018-01277-5. [Epub ahead of print].
51. Özelsel TJ, **Sondekoppam RV**, Ip VHY, Tsui BCH. Re-defining the 3R's (reduce, refine, and replace) of sustainability to minimize the environmental impact of inhalational

- anesthetic agents. Can J Anaesth. 2018 Dec 17. doi: 10.1007/s12630-018-01279-3. [Epub ahead of print].
52. Khurana J, Ip V, Todd G, **Sondekoppam RV**. How I do it: Surgically inserted transversus abdominis plane (TAP) catheters for flank incisions. Can J Urol. 2018 Dec;25(6):9623-9626.
53. Khurana J, Bigam D, Özelsel T, **Sondekoppam RV**. Tips and Tricks of Performing Surgically Inserted TAP Catheters for Hepatectomy. J Gastrointest Surg. 2019 Jan;23(1):183-184. doi: 10.1007/s11605-018-4024-2.
54. Ip VHY, **Sondekoppam RV**, Özelsel TJP. Evaluating the success of Erector Spinae Plane block: Believing is seeing? J Clin Anesth. 2019 Mar 2;57:5-6.
55. Tsui BCH, Ip V, **Sondekoppam RV**. In reply: Iliac crest bone graft donor site analgesia: a new indication for erector spinae plane block. Can J Anaesth. 2019 Mar;66(3):340-341.

Awards and Distinction

- **Kopp's Award** for best paper presentation in **Paediatric anaesthesia** for **"Anatomical dimensions of larynx, epiglottis and cricoid cartilage in fetuses and their relationship with Crown- Rump length"** at ISACON-2009, 57th Annual Conference of Indian Society of Anaesthesiologists held at Chennai, India in Dec 2009.
- **Isha Narayani Best poster Award** for **"A study of effect of lumbar epidural administration of neostigmine on lower urinary tract function"** at ISACON-2009, 57th Annual Conference of Indian Society of Anaesthesiologists held at Chennai, India in Dec 2009.
- **Departmental first order Silver medal** in MD exams held in May 2010
- **Isha Narayani Best poster Award** for **"Morphometric measurement of foetal sacrum and correlation with Crown Heel Length"** at ISACON-2010, 58th Annual Conference of Indian Society of Anaesthesiologists held at Lucknow, India in Dec 2010.
- Selected among the top five posters for podium presentation for **"Morphometry of Infraorbital Foramen- An Anatomical Study"** in ISSPCON-2011, 26th Annual National Conference of Indian Society for Study of Pain held at Chandigarh, India in Feb 2011.
- **Best paper (platform presentation) (1st prize)** for paper entitled **"Rare anatomical variation of brachial plexus: single cord anomaly"** at **9th Congress of SAARC association of Anaesthesiologists** held from **26th to 28th August 2011 at Bangalore, India.**
- **Kopp's Award** for best paper presentation in **Paediatric anaesthesia** for **"Comparison of volume control versus pressure control ventilation in infants undergoing surgery for correction of trachea-esophageal fistula repair"** at ISACON-2011, 59th Annual Conference of Indian Society of Anaesthesiologists held at Mumbai, India in Dec 2011.
- 3rd prize for the Best E-Poster Discussion for the poster entitled **" Comparison of electronic beam steering with echogenic needle for needle visibility during**

ultrasound-guided Regional Anesthesia: A laboratory study" at the 32nd Annual ESRA Meeting held on 4-7 September 2013 at Glasgow (UK).

- Co-Author in a poster entitled "**Navigated Simulator for Spine Needle Interventions**" which won the **best abstract of ISURA 2014**.
- Co-author in a poster entitled "**Fast track regimen incorporating adductor canal blocks to facilitate discharge after overnight stay following knee arthroplasty - a feasibility study**" which won 2nd prize at the Midwest Anesthesia Resident's Conference (MARC-2016) held in Minneapolis, MN, USA.

Grants awarded (Competitive funding)

1. Principal Applicant for "**Ambulatory continuous adductor canal block to facilitate same day discharge following total knee arthroplasty: A pilot study**"
 - Funding Sources: DEPARTMENT OF ANESTHESIA Internal Research Fund, University of Western Ontario
 - Total Funding - 9,500.00 (CND)
 - Manuscript in preparation
2. Principal Applicant for "**Comparison of bilateral thoracic paravertebral block to thoracic epidural analgesia for post-operative analgesia in patients undergoing upper abdominal surgery**"
 - Funding Sources: Lawson Health Research Institute
 - Total Funding - 15,000.00 (CND)
 - Manuscript in preparation
3. Principal Applicant for "**Comparison of Efficacy and Safety of Perihamstring Local Anesthetic Injection to Obturator Nerve Block When Combined with Subsartorial Saphenous Block for Anterior Cruciate Ligament Repair. A Randomized Double Blinded Study.**"
 - Funding Sources: DEPARTMENT OF ANESTHESIA Internal Research Fund, University of Western Ontario
 - Total Funding - 4,335.00 (CND)
 - Manuscript in preparation
4. Principal applicant for a quality improvement grant for "**BLOCKS BEFORE NARCS**" in the 2018 Edmonton Zone QI funding competition.
 - a. Funding Source: Quality Healthcare Improvement, Alberta Health Services
 - Total Funding – 22,260.00 (CND)

Author of conference proceedings (Souvenir)

- Batra YK, **Rakesh S V**. "**Depth of anaesthesia: What is new?**" ISACON 2009, Chennai, India in Dec 2009.
- Batra Y K, **Rakesh S V**. "**Safety issues during airway access in critically ill patients**". ISACON 2010, Lucknow, India in Dec 2010.
- Preparation & compilation of conference souvenir of **ISSPCON 2011**- 26th annual national conference of the Indian Society for Study of Pain held at PGIMER, Chandigarh.

- Batra YK, **Rakesh S V.** “**Research in anaesthesiology: what is lacking and how to improve?**” 9th SAARC Anaesthesia Congress held at Bangalore between 25th and 28th August 2011.
- Batra Y K, **Rakesh S V.** “**Metabolic syndrome in the surgical patient**”-59th Annual National Conference of the Indian Society of Anaesthesiologists (ISACON-2011) held at Mumbai between 26th- 29th December, 2011.
- Batra Y K, **Rakesh S V.** “**Managing paediatric postoperative pain**”- 4th National Conference of Indian Association of Paediatric Anaesthesiologists (Paeds Anaesthesia 2012) held at Hyderabad on 11th and 12th February, 2012.

Author of chapter in books:

- Co-Authored a chapter on **upper and lower limb blocks** in Text Book of Pain Management-Second edition; by Muralidhar Joshi (Jaypee publications), (under publication)
- **Ganapathy S, Sondekoppam RV: Avoiding adverse effects of regional anesthesia in orthopaedic surgery. *Orthopaedic Knowledge Online Journal* 2013;11(12)**
- Co-authored chapters on: **Ultrasound for neuraxial anesthesia; axillary and infraclavicular brachial plexus blocks** for an i-pad book “Fundamentals of ultrasound guided regional anaesthesia II”, Editors: Glenn Woodworth, Jean-Louis Horn.
- Co-authored a chapter on “**Rhabdomyolysis and fat embolism syndrome**” in **Textbook of Critical Care: Two Volume Set** by Yatin Mehta, Mukesh Gupta, Jaypee publications, 2015.
- Authored a chapter entitled "**Total Knee replacement**" for **Decision-Making in Orthopedic and Regional Anesthesiology: A Case-Based Approach**", edited by Mike Anderson, Sylvia Wilson and Meg Rosenblatt.
- Authored a chapter entitled "**Local Infiltration Analgesia for Orthopedic Joint Surgery**" for **Complications of Regional Anesthesia**; Editors: Finucane, Brendan, Tsui, Ban C.H. (Eds.) Springer publications.
- Authored a chapter entitled "**Nerve Injury Resulting from Intra-neural Injection When Performing Peripheral Nerve Block**" for **Complications of Regional Anesthesia**; Editors: Finucane, Brendan, Tsui, Ban C.H. (Eds.) Springer publications.

Managerial skills

Actively involved in the organization of the following events:

- CME on **Recent trends in Regional Anesthesia**, PGIMER, Chandigarh, August 2008. (Scientific committee)
- **3rd Annual Perioperative & Critical Care Trans Esophageal Echocardiography Workshop** held at PGIMER, Chandigarh, 27th Feb – 1st March 2009 (Printing and publishing).
- **4th Annual Perioperative & Critical Care Trans Esophageal Echocardiography Workshop** held at PGIMER, Chandigarh, Feb 2010 (Catering committee).
- 11th Annual Conference of Pediatric cardiac society of India held at PGIMER, Chandigarh, October 2009 (Catering committee)
- **2nd Annual National Conference of the Association of Obstetric Anaesthesiologists** held at PGIMER, Chandigarh, 18th – 20th September, 2009 (Audio Visual committee)
- **26th Annual national conference of Indian Society for Study of pain** held at PGIMER, Chandigarh from 18th to 20th Feb 2011 (Scientific and Organizing committee)
- CME program on “**Selected topics in pain management**” Conducted by the Department of Anaesthesia, PGIMER, Chandigarh on 20th November, 2011.
- CME program on “**Insights into Pain Management: An Update**” Conducted by the Department of Anaesthesia, PGIMER, Chandigarh on 15th April, 2012.

- CME program on “**Anaesthesia for neonatal emergencies**” conducted by the Department of Anaesthesia, PGIMER, Chandigarh in August, 2012.
- **Weekly Regional anesthesia meeting/ journal club** on Monday evenings at Room A2-101, University hospital, western university, London, On, Ca
- Involved in the conduct of monthly **Anatomy Lab** for regional anesthesia.
- Monthly **Regional anesthesia journal club** at University of Alberta hospital, Edmonton, Ab, Ca. (from 2017 September – June 2018)
- Organization of **home regional catheter program** at London, Ontario, Ca. for **total knee arthroplasty**
- Organization of **home regional catheter program** at University of Alberta Health Sciences, Edmonton, Alberta, Ca. for **ankle and shoulder surgery**.
- Development and integration of **Acute Pain Service Database** for documentation and QI/QA purposes at the UoA, Edmonton, AB, CA.
- **Resident research coordinator** for the Department of Anesthesiology and Pain Medicine, University of Alberta, Edmonton, Canada since August 2018.
- Organize Canadian anesthesiologist’s society’s section for environmental sustainability (**CAS-ES**) **section events** for the upcoming **annual national conference of CAS** from 21-24 June 2019 at Calgary, Ab, Ca.

Faculty roles

- Faculty at the Cadaveric workshop for regional anesthesia and chronic pain conducted at the **Cleveland clinic** on 14th December 2013.
- Workshop demonstrator at the 31st annual **Can-Am clinical anesthesia conference** regional anesthesia workshop conducted on Sunday May 4, 2014 at the Niagara Fallsview casino resort.
- Workshop instructor at the regional anesthesia workshop conducted during the **59th annual Ontario anesthesia meeting** on 21st September 2014 at the Westin harbor resort, Toronto, On, Canada.
- Associate faculty at the 2015 ASRA-ASA Ultrasound-Guided Regional Anesthesia Education Portfolio Cadaver Course; Northwestern Center for Advanced Surgical Education (N-CASE); Chicago, Illinois
- Faculty at the Ultrasound Guided Regional Anesthesia Workshop held at Toronto Western Hospital on Dec 12 and 13 2015.
- Faculty at the Cadaveric workshop for regional anesthesia and chronic pain conducted at the **Cleveland clinic**, December 2015.
- Faculty at the Cadaveric workshop for regional anesthesia and chronic pain conducted at the **Cleveland clinic** on 2nd December 2016.
- Presented a talk on **The basics of ultrasonography** as invited speaker at the Cadaveric workshop for regional anesthesia and chronic pain conducted at the **Cleveland clinic** on 2nd December 2016..
- Associate faculty at the 2016 **ASRA-ASA** Ultrasound-Guided Regional Anesthesia Education Portfolio Cadaver Course; November 5-6, 2016; Northwestern Center for Advanced Surgical Education (N-CASE); Chicago, Illinois
- Faculty for regional anesthesia workshop at the **Canadian Society of Anesthesiologists (CAS) annual meeting – 2017** held at Niagara Falls, Ontario between 23-26 June 2017

- Faculty at the Cadaveric workshop for regional anesthesia and chronic pain conducted at the **Cleveland clinic**, December 2017.
- **Associate faculty** at the **ASRA-ASA** Ultrasound-Guided Regional Anesthesia Education Portfolio Cadaver Course; November 2-3, 2017; Northwestern Center for Advanced Surgical Education (N-CASE); Chicago, Illinois
- Invited faculty at the **Canadian Society of Anesthesiologists (CAS) annual meeting – 2018** to be held in Montreal, Quebec, Ca between 15-18 June 2018 (session moderator and workshop instructor)
- **Founding member and website liaison** for **Green anesthesia special interest group** in ASRA
- **Section chair and founding member of CAS Section on Sustainable and Environmentally Friendly Anesthesia.**
- **Faculty** at the **ASRA-ASA** Ultrasound-Guided Regional Anesthesia Education Portfolio Cadaver Course; November 3-4, 2018; Northwestern Center for Advanced Surgical Education (N-CASE); Chicago, Illinois
- **Invited faculty** at the Cadaveric workshop for regional anesthesia and chronic pain conducted at the **Cleveland clinic** held on 02-03 December 2018.
- Presented a talk on **airway ultrasonography** as an invited speaker at the Cadaveric workshop for regional anesthesia and chronic pain conducted at the **Cleveland clinic** held on 02-03 December 2018.
- Invited faculty at the **Canadian Society of Anesthesiologists (CAS) annual meeting – 2019** to be held in Calgary, Alberta, Ca between 21-24 June 2019 (invited speaker, session moderator and workshop instructor)

CME & Conference Attended (non-faculty)

- **3rd Annual perioperative and critical care Transesophageal echocardiography workshop** held at PGIMER, Chandigarh, 27th Feb – 1st Mar 2009.
- **Difficult Airway workshop, 2nd Annual National Conference of the Association of Obstetric Anaesthesiologists** held at PGIMER, Chandigarh, 18th – 20th September, 2009.
- **CME & Conference, 2nd Annual National Conference of the Association of Obstetric Anaesthesiologists** held at PGIMER, Chandigarh, 18th – 20th September, 2009.
- **CME & Conference, 10th Annual Conference of North Zone Indian Society of Anaesthesiologists** held at Banur, India in Oct 2009.
- **3rd Annual Perioperative & Critical Care Trans Esophageal Echocardiography Workshop** held at PGIMER, Chandigarh, 27th Feb – 1st March 2009.
- **Workshop on Mechanical Ventilation, ISACON-2009, 57th Annual Conference of Indian Society of Anaesthesiologists** held at Chennai, India in Dec 2009.
- **CME & Conference, ISACON-2009, 57th Annual Conference of Indian Society of Anaesthesiologists** held at Chennai, India in Dec 2009.
- **Comprehensive Trauma Life Support (CTLS) Course** held at PGIMER Chandigarh under **International Trauma Care (Indian Chapter) CTLS ITACCS India** on 1st and 2nd September 2010.

- **Ultrasound Guided regional Anaesthesia CME cum Workshop** at DMC Ludhiana on 30th May 2010.
- **4th Annual Perioperative & Critical Care Trans Esophageal Echocardiography Workshop** held at PGIMER, Chandigarh, 19th – 21st Feb 2010.
- **CME & Conference, ISACON-2010, 58th Annual Conference of Indian Society of Anaesthesiologists** held at Lucknow, India in Dec 2010.
- **26th Annual National Conference of the Indian Society for Study of Pain [ISSPCON 2011]** held at PGIMER, Chandigarh, 18th to 20th Feb 2011.
- **2nd Biostatistical Workshop: Sample Size Analysis in Medical Research** approved by **ICMR (Indian Council for Medical Research)** held on **26th march 2011** held by **Department of Biostatistics, PGIMER, Chandigarh, India**
- **Difficult airway management pre-conference workshop at 9th Congress of SAARC association of Anaesthesiologists** held on **25th August 2011** at Bangalore, India.
- **9th Congress of SAARC association of Anaesthesiologists** held from **26th to 28th August 2011** at Bangalore, India.
- **59th Annual National Conference of the Indian Society of Anaesthesiologists (ISACON 2011)** held between 26th – 29th December 2011 at Mumbai, India
- CME program on **“Selected topics in pain management”** Conducted by the Department of Anaesthesia, PGIMER, Chandigarh on 20th November, 2011.
- 3rd Biostatistical workshop on **“Study design and sample size determination in medical research”** conducted by the Department of Biostatistics, PGIMER, Chandigarh, India on 17th and 18th February 2012.
- CME program on **“Insights into Pain Management: An Update”** Conducted by the Department of Anaesthesia, PGIMER, Chandigarh on 15th April, 2012.
- **Airway workshop of Southwestern Ontario anesthesia meeting at London health sciences centre, London, Ontario, Canada** held on **20th October 2012**.
- **ASRA 2013** spring meeting at Boston Ma, USA held between 2-5th May 2013.
- **ASA 2013** held in San Francisco, Ca, USA between 12-16th Oct 2013
- Regional anesthesia workshop at ASA 2013 "Must know blocks for ambulatory anesthesia".
- **ASRA 2013 fall meeting:** Held in Phoenix Az, USA between 21-24 Nov 2013.
- Cochrane Author Training Workshop between October 18-20, 2013 at 551 Windermere Road, London, Ontario.
- **IARS 2014** held from May 17-20, 2014 at the Fairmont Queen Elizabeth – Montréal, Canada
- **ISURA 2014: Annual Meeting of International Symposium of Ultrasound for Regional anesthesia, Pain medicine and Perioperative Application** conducted between June 21-24, 2014, Toronto, Canada
- **ASRA 2015:** 40th Annual Regional Anesthesiology and Acute Pain Medicine Meeting, May 14-16, 2015, Caesars Palace, Las Vegas, Nevada.
- **ASRA 2016:** 41st Annual Regional Anesthesiology and Acute Pain Medicine Meeting Thursday, March 31, 2016–Saturday, April 2, 2016; The Roosevelt Hotel, 123 Baronne Street, New Orleans, LA 70112.
- **ASRA 2017:** 42nd Annual Regional Anesthesiology and Acute Pain Medicine Meeting, April 6 - 8, 2017, Marriott Marquis San Francisco, 780 Mission Street, San Francisco, CA 94103

- **CAS 2017:** Canadian Society of Anesthesiologists (CAS) annual meeting – 2017 held at Niagara Falls, Ontario between 23-26 June 2017
- **ASRA 2018:** 43rd Annual Regional Anesthesiology and Acute Pain Medicine Meeting, April 19 –21, 2018, Marriott Marquis Time Square, 1535 Broadway, New York, NY 10036
- **CAS 2018:** Canadian Society of Anesthesiologists (CAS) annual meeting – 2018 held at Montreal, Quebec between 16-18 June 2018.

Poster/Paper Presentation

- Presented a scientific paper “**Continuous Psoas compartment block for postoperative analgesia following unilateral total hip arthroplasty (THA): A comparison of 0.25% bupivacaine with and without tramadol**” in North Zone ISACON-2009, 10th Annual Conference of North Zone Indian Society of Anaesthesiologists held at Banur, India in Oct 2009
- Presented a scientific paper “**Anatomical dimensions of larynx, epiglottis and cricoid cartilage in fetuses and their relationship with Crown- Rump length**” in ISACON-2009, 57th Annual Conference of Indian Society of Anaesthesiologists held at Chennai, India in Dec 2009.
- Presented a scientific poster “**A study of effect of lumbar epidural administration of neostigmine on lower urinary tract function**” in ISACON-2009, 57th Annual Conference of Indian Society of Anaesthesiologists held at Chennai, India in Dec 2009.
- Rajeev Subramanyam, Yatindra Batra Kumar, **Rakesh S V**, Nidhi B Panda, Lokesh V C. **Poster presentation** titled “**Intrathecal clonidine decreases propofol sedation requirements during spinal anesthesia in infants**” at ASRA 35th annual regional anesthesia meeting and workshop held at Toronto, Ontario, Canada in April 2010.
- Presented a scientific poster “**Anatomic Consideration of Caudal Epidural Space: A Cadaver Study**” in ISACON-2010, 58th Annual Conference of Indian Society of Anaesthesiologists held at Lucknow, India in Dec 2010.
- Presented a scientific paper “**Morphometric measurement of foetal sacral canal and correlation with Crown Heel Length**” in ISACON-2010, 58th Annual Conference of Indian Society of Anaesthesiologists held at Lucknow, India in Dec 2010.
- Presented a scientific paper “**Morphometry of Infraorbital Foramen- An Anatomical Study**” in ISSPCON-2011, 26th Annual National Conference of Indian Society for Study of Pain held at Chandigarh, India in Feb 2011.
- Presented a scientific paper entitled “**Rare anatomical variation of brachial plexus: single cord anomaly**” at 9th Congress of SAARC association of Anaesthesiologists held from 26th to 28th August 2011 at Bangalore, India.
- Presented a scientific paper entitled “**Comparison of volume control versus pressure control ventilation in infants undergoing surgery for correction of trachea-esophageal fistula repair**” at 59th Annual National Conference of the Indian Society of Anaesthesiologists (ISACON 2011) held from 26th to 29th December 2011 at Mumbai, India.
- Presented a scientific paper entitled “**Ultrasound identification of greater palatine foramen and US guided greater palatine nerve blocks: A cadaveric study**” at E-

Poster Presentation at the 38th Annual Regional Anesthesiology and Acute Pain Medicine Meeting held from 2nd to 5th May 2013 at Boston, Ma, USA.

- Presented a scientific paper entitled "**Comparison of US-guided interscalene versus combined suprascapular and axillary nerve blocks for postoperative pain relief in arthroscopic shoulder rotator cuff repair**" at **Annual National Conference of the American Society of Anaesthesiologists (ASA 2013)** held from 12th to 16th **October 2013 at San Francisco, Ca, USA.**
- Presented a scientific poster entitled "**Comparison of bilateral thoracic paravertebral block to thoracic epidural analgesia for post-operative analgesia in patients undergoing abdominal surgery – A randomized open label study**" at **Annual National Conference of the American Society of Anaesthesiologists (ASA 2013)** held from 12th to 16th **October 2013 at San Francisco, Ca, USA.**
- Presented a scientific paper entitled "**MOTOR SPARING KNEE BLOCK FOR ANALGESIA FOLLOWING KNEE ARTHROPLASTY: DESCRIPTION OF A NEW APPROACH**" at the **IARS 2014 Annual Meeting and International Science Symposium** conducted between May 17-20, 2014 at the Fairmont Queen Elizabeth – Montréal, Canada
- Presented a scientific paper entitled "**MOTOR SPARING KNEE BLOCK FOR ANALGESIA FOLLOWING KNEE ARTHROPLASTY: DESCRIPTION OF A NEW APPROACH**" at the **ISURA 2014: Annual Meeting of International Symposium of Ultrasound for Regional anesthesia, Pain medicine and Perioperative Application** conducted between June 21-24, 2014, Toronto, Canada
- Presented a scientific paper entitled "**Proximal Approaches to Shoulder Block: Technical Description**" at the **ISURA 2014: Annual Meeting of International Symposium of Ultrasound for Regional anesthesia, Pain medicine and Perioperative Application** conducted between June 21-24, 2014, Toronto, Canada
- Co-investigator of a study presented as an E-poster entitled "**The spread of injectate during ultrasound guided quadratus lumborum block: a cadaver study**" David Johnston, **Rakesh Sondekoppam**, Sugantha Ganapathy, Marjorie Johnson, Parvinder Sodhi, Vishal Uppal, Jonathan Brookes at the 40th Annual Regional Anesthesiology and Acute Pain Medicine Meeting, May 14-16, 2015, Las Vegas NV, USA.
- Co-investigator of a study presented in a moderated poster session entitled "**Modified shoulder block regional technique for arthroscopic shoulder surgery: a case series**". LUZMARIA LOPERA VELASQUEZ, **Rakesh Sondekoppam Vijayashankar**, Vishal Uppal, Sugantha Ganapathy, Kevin Armstrong at the 40th Annual Regional Anesthesiology and Acute Pain Medicine Meeting, May 14-16, 2015, Las Vegas NV, USA.
- Presented at the moderated poster session entitled "**Biplanar imaging for real time Ultrasound guided spinal anesthesia: From bench to bedside**" **Rakesh Sondekoppam Vijayashankar**, Elvis Chen, Ameri Golafson, Terry Peters, Sugantha Ganapathy " at the 40th Annual Regional Anesthesiology and Acute Pain Medicine Meeting, May 14-16, 2015, Las Vegas NV, USA.
- Vishal Uppal, **Rakesh Sondekoppam**, Pod Armstrong. Changes in regional anesthesia practice for upper limb surgery at an academic center: Eleven-year retrospective analysis. 41st Annual Regional Anesthesiology and Acute Pain Medicine Meeting Thursday, March 31, 2016–Saturday, April 2, 2016 New Orleans LA
- Christopher Prabhakar, **Rakesh Sondekoppam**, Vishal Uppal. Ultrasound-guided needle visualization using echogenic needles and beam-steer technology.

1st Annual Regional Anesthesiology and Acute Pain Medicine Meeting
Thursday, March 31, 2016–Saturday, April 2, 2016 New Orleans LA

- Vishal Uppal, **Rakesh Sondekoppam**, David Johnston, Parvinder Sodhi, Shalini Dhir, Maria Lopera, Sugantha Ganapathy Randomized prospective study to evaluate efficacy and safety of single versus multiple injection ultrasound guided paravertebral blocks for breast surgery. 41st Annual Regional Anesthesiology and Acute Pain Medicine Meeting Thursday, March 31, 2016–Saturday, April 2, 2016 New Orleans LA.
- **Rakesh Sondekoppam**, Olawale Sogbein, James Howard, Dianne Bryant, David Johnston, Edward Vasarhelyi, Steven Macdonald, Brent Lanting, Sugantha Ganapathy. Comparison of periarticular infiltration to modified adductor canal blocks for postoperative analgesia following total knee arthroplasty: A randomized equivalence trial. 41st Annual Regional Anesthesiology and Acute Pain Medicine Meeting Thursday, March 31, 2016–Saturday, April 2, 2016 New Orleans LA.
- **Rakesh Sondekoppam**, David Johnston, Vishal Uppal, Robert Giffin, Robert Litchfield, Sugantha Ganapathy. Comparison of efficacy and safety of perihamstring local anesthetic injection to obturator nerve block for graft donor site pain following Anterior Cruciate Ligament (ACL) repair. A randomized double blinded study. 41st Annual Regional Anesthesiology and Acute Pain Medicine Meeting Thursday, March 31, 2016–Saturday, April 2, 2016 New Orleans LA.
- **Rakesh Sondekoppam**, Vivian Ip, David F Johnston, Sugantha Ganapathy, Marjorie Johnson, Ban CH. Tsui. Correlation of injectate spread and dermatomal anesthesia following ultrasound guided transmuscular quadratus lumborum injections: from bench to bedside. 42nd Annual Regional Anesthesiology and Acute Pain Medicine Meeting, 2017. Thursday, April 6, 2017–Saturday, April 8, 2017. Marriott Marquis San Francisco, 780 Mission Street, San Francisco, CA 94103
- **Rakesh Sondekoppam**, Jaasmit Khurana, Latha Naik, Stephanie C Gartner, Ban CH. Tsui. Ultrasound identification of Diaphragm by novices using ABCDE technique. 42nd Annual Regional Anesthesiology and Acute Pain Medicine Meeting, 2017. Thursday, April 6, 2017–Saturday, April 8, 2017. Marriott Marquis San Francisco, 780 Mission Street, San Francisco, CA 94103
- Jaasmit Khurana, Stephanie Gartner, **Rakesh V. Sondekoppam**, Vivian Ip, Ban C.H. Tsui Analgesic efficacy of intraoperatively placed transversus abdominis plane (TAP) block catheter for nephrectomy: A retrospective study presented at the **Canadian Society of Anesthesiologists (CAS) annual meeting - 2018** held in Montreal, Quebec, Ca between 15-18 June 2018
- Vivian Ip, **Rakesh Sondekoppam**, Jaasmit Khurana, Tsui Ban, Clinical effects of lidocaine infusion for transversus abdominis plane (TAP) block catheter infusion. Submitted for the upcoming 44th Annual Regional Anesthesiology and Acute Pain Medicine Meeting, 2019 to be held in Las Vegas, 10-14th April, 2019

Non-indexed publications:

- Green anesthesia special interest group: An innovative initiative. ASRA newsletter May 2018.
- How I do it: Edmonton perspectives in providing sustainable “3R” anesthesia. ASRA newsletter (November edition 2018)

- Edmonton Holds Innovative Celebration for World Anesthesia Day. ASRA newsletter (accepted for publication).

Peer reviewer:

- Canadian journal of anesthesia (CJA)
- Medicine
- PLOS one
- Journal of Orthopedic surgery and research (JOSR)
- Journal of International Medical Research

Voluntary and community activities:

I participated in various volunteer activities including HIV counseling, rural school health checkups and health camps organized by our institution. I was also actively involved in various National Health Programs which includes the World Health Organization's Malaria Control, Universal Immunization, Pulse Polio Program, Maternal and Child health and Leprosy Control programs.

Audit Experience

- Audit on admissions and outcomes in intensive care unit during a period of 3 months (Oct 2009 to Dec 2009), PGIMER, India. Presented in Dec 2009.
- Performed a ten year audit (2005-2015) on the utility of surgically inserted TAP blocks for open nephrectomy surgery at the UoA hospital, Edmonton, Ab, Ca

Referees:

1. Dr. Timur Ozelsel,
Associate Clinical Professor
Site Chief of Anesthesia, Cross Cancer Institute
Director of Quality and Equipment Procurement in Anesthesiology, Edmonton Zone
Chair Special Interest Group Green Anesthesia, American Society of Regional Anesthesia
Department of Anesthesia and Pain Medicine
University of Alberta Hospital
11731 83 Avenue NW
Edmonton, AB T6G 0V2
email: ozelsel@ualberta.ca
phone: 780-757-5689
cell: 780-886-5689

pager: 780-493-8772