



CURRICULUM VITAE

Dr. ANAHI PERLAS

**DEPARTMENT OF ANESTHESIA
FACULTY OF MEDICINE
UNIVERSITY OF TORONTO**

A. NAME AND CONTACT INFORMATION

Name: Anahi Perlas
Date of birth: March 20, 1969
Citizenship: Canadian
Marital Status: Married, 2 children
Business address: Department of Anesthesia, Toronto Western Hospital,
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B. DATE CURRICULUM VITAE UPDATED: June 1st, 2016

C. BIOGRAPHICAL INFORMATION

1. DEGREES

2003 Anesthesia Specialist Certificate, Royal College of Physicians and Surgeons of Canada (RCPSC)
1999 Licentiate, Medical Council of Canada (LMCC)
1995 Medical Degree (MD), Universidad de la Republica, Montevideo, Uruguay

2. EMPLOYMENT HISTORY

PRESENT CLINICAL APPOINTMENTS

2006 - Present Director, Clinical Regional Anesthesia Program, Toronto Western Hospital, University Health Network
2004 - Present Staff Anesthesiologist, Department of Anesthesia, Toronto Western Hospital, University Health Network

PRESENT ACADEMIC APPOINTMENT

July 2010 - Present Associate Professor, Department of Anesthesia, Faculty of Medicine, University of Toronto, Toronto, Ontario

PREVIOUS ACADEMIC APPOINTMENTS

July 2005 - June 2010 Assistant Professor, Department of Anesthesia, Faculty of Medicine, University of Toronto, Toronto, Ontario
January 2004 Lecturer, Department of Anesthesia, Faculty of Medicine, University of Toronto, Toronto, Ontario

3. HONOURS AND AWARDS

May 2002	The Hynek Rothbart Award. Best paper presented at the 24 th Annual Shield's Research Day, Department of Anesthesia, University of Toronto. Title: "Ultrasound localization of the brachial plexus", Toronto, ON
March 2004	Best of Meeting Abstract. American Society of Regional Anesthesia Annual Meeting. Title: "Ultrasound localization of the sciatic nerve. A preliminary study." Orlando, FL,
April 2009	Best of Meeting Abstract. American Society of Regional Anesthesia Annual Meeting. Title: "Learning ultrasound-guided supraclavicular block: Success rates and patterns of nerve sparing" Phoenix, AZ
November 2010	Award for Excellence in Postgraduate Teaching Department of Anesthesia and Pain Management, Mount Sinai Hospital and University Health Network - University of Toronto
2011- 2013	Research Merit Award. University of Toronto, Department of Anesthesia Project title: Bedside ultrasound assessment of gastric volume. Validating a mathematical model using gastroscopic examination (Salary support \$40,000 yearly for two years)
May 2012	David Bevan Award for Best Poster presentation at the 33 rd Annual Shield's Anesthesia Research Day, University of Toronto, Department of Anesthesia. Title: Popliteal block at the site of sciatic nerve bifurcation through a common nerve sheath. A randomized, double-blind study.
May 2013	Best paper presented by a Fellow at the 34 th Annual Shield's Anesthesia Research Day. Title: Does gastric ultrasound change anesthetic management in non-fasted elective surgical patients?
November 2014	David Fear Award for outstanding contributions to continuing medical education and continuing professional development. University of Toronto, Department of Anesthesia
June 2015	Best Pediatric Anesthesia Paper at the Annual Meeting of the Canadian Anesthesiologists' Society. Title: "Antral Sonography in pediatric patients with large gastric volumes" Ottawa, ON
May 2016	Marion and Earl Orser Award (awarded to clinical/research fellow Hillenn Cruz-Eng under my supervision) for best clinical peer-reviewed publication published as a first author (in 2015) by a University of Toronto resident or fellow in the areas of Anesthesia and Sleep Medicine. Published in Anesthesiology 2015 December; 123(6):1256-66

4. PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Present Professional Affiliations and Activities

1998 - Present	Member, Ontario Medical Association
1998 - Present	Member, Canadian Medical Association
1998 - Present	Member, Canadian Society of Anesthesiologists
2001 - Present	Member, American Society of Regional Anesthesia
2007 - Present	Member, American Society of Anesthesiologists
2009 - 2010	Program Committee Member , American Society of Regional Anesthesia 2010 Annual Spring Meeting (Toronto, Canada)
2009 - 2010	Planning Committee Member , International Symposium of Ultrasound for Regional Anesthesia 2010 (Toronto, Canada)
2010-2014	Member, Committee for Continuing Medical Education , American Society of Regional Anesthesia and Pain Medicine
2010-Present	Member, Departmental Appointments Committee , Department of Anesthesia, University of Toronto
2011 - 2012	Member, ASRA Scientific Program Committee American Society of Regional Anesthesia 2012 Annual Spring Meeting (San Diego, CA, USA)

2011 - 2012 **Member, Annual Meeting Planning Committee**, International Symposium of
Ultrasound for Regional Anesthesia 2012 (Toronto, Canada)

University of Toronto Committee Leadership Positions

July 2016-Present **Chair**, Departmental Appointments Committee, Department of Anesthesia,
University of Toronto

Scientific Societies Leadership Positions

May 2015 **Vice-Chair ASRA Annual Scientific Program Committee**, American Society of
Regional Anesthesia 2015 Annual Meeting (La Vegas, NV)

April 2016 **Scientific Program Chair**, 2016 ASRA Regional Anesthesia Annual Meeting
(New Orleans, LA)

2015-2018 **Director at-large, Board of Directors, ASRA**, American Society of Regional
Anesthesia and Pain Medicine

Editorial Board and Journal Reviewer activities

2010 - Present	Regional Anesthesia and Pain Medicine	Associate Editor
2005 - Present	Canadian Journal of Anesthesia	Consultant Reviewer
2009 - Present	Acta Anesthesiologica Scandinavica	Consultant Reviewer
2010 - Present	Anesthesia and Analgesia	Consultant Reviewer
2012 - Present	Journal of Ultrasound in Medicine	Consultant Reviewer
2015 – Present	Anesthesiology	Consultant Reviewer

D. ACADEMIC HISTORY

1. Research Endeavors

My main research focus is the development and validation of innovative peri-operative applications of ultrasound imaging. Since 2002, I have worked on the development of ultrasound guidance for peripheral nerve and neuraxial blocks. In addition to describing new techniques, our research group (Regional Anesthesia and Pain medicine at Toronto Western Hospital) has investigated their efficacy and safety through numerous trials, many of which were supported by competitive peer-reviewed funding and all of which were published in peer-reviewed journals.

More recently, since 2008, I have led a multi-disciplinary group (from the fields of anesthesia, medical imaging and gastroenterology) in the development of an ultrasound protocol to evaluate gastric content and volume and therefore assess aspiration risk to guide anesthetic and airway management. We have defined and validated a standardized imaging protocol that is accurate and reliable. We are currently collaborating both nationally and internationally to expand this point-of-care ultrasound application to a broad range of patients (including pediatrics, obstetrics and the severely obese) and to establish its diagnostic accuracy. Our protocol is starting to be adopted both nationally and internationally by other anesthesia centers for clinical and research purposes.

2. Research Awards and Grants

2004 - 2005 Funding Agency: Physician Services Incorporated
Project title: A comparison of ultrasound imaging vs. nerve stimulator for nerve
localization for brachial plexus block
Duration: One year
Funding amount: CAD \$70,000
Principal Investigator: Vincent Chan

Co-Investigators: Colin McCartney, **Anahi Perlas**, Martin Simons, Joel Katz, Regan Rawson

- 2005 - 2006 Funding Agency: University of Toronto, Dean's Research Fund Competition.
Project title: Ultrasound-guided sciatic nerve block. A prospective, randomized controlled trial
Duration: One year
Funding Amount: CAD \$10,000
Principal Investigator: **Anahi Perlas**
- 2006 - 2007 Funding Agency: Canadian Anesthesiologists Society (Organon Canada Ltd Canadian Research Award)
Project title: A randomized controlled study comparing dual endpoint nerve stimulation with ultrasound guided infraclavicular block for hand surgery
Duration: One year
Funding Amount: CAD \$20,000
Principal Investigator: Colin McCartney
Co-Investigators: Vincent Chan, **Anahi Perlas**
- 2006 - 2007 Funding Agency: Physician Services Incorporated
Project title: A randomized controlled trial of ultrasound versus nerve stimulation for dual endpoint infraclavicular block
Duration: One year
Funding Amount: CAD \$36,500
Principal Investigator: Colin McCartney
Co-Investigators: Vincent Chan, **Anahi Perlas**
- 2008-2009 Funding Agency: Anesthesia Patient Safety Foundation/American Society of Anesthesiologists President's Endowed Research Award
Project title: Gastric Ultrasonography: A Non-invasive Tool to Determine Gastric Volume. Development of a Quantitative Model
Duration: One year
Funding Amount: US\$ 24,068
Principal Investigator: **Anahi Perlas**
- 2008-2009 Funding Agency: Doctor's Company Foundation Ann S. Lofsky, MD Research Award
Project title: Gastric Ultrasonography: A Non-invasive Tool to Determine Gastric Volume. Development of a Quantitative Model
Duration: One year
Funding Amount: US\$ 5,000
Principal Investigator: **Anahi Perlas**
- 2010-2011 Funding Agency: Canadian Anesthesiologists' Society/ General Electric Canada Research Award in Perioperative Imaging
Project title: Bedside ultrasound assessment of gastric volume. Validating a mathematical model using gastroscopic examination
Duration: One year
Funding amount: CAD\$ 30,000
Principal Investigator: **Anahi Perlas**
- 2011-2012 Funding Agency: Canadian Anesthesiologists' Society/ Abbott Laboratories New Investigator Award
Project title: Can anesthesia trainees effectively use ultrasound imaging to facilitate the performance of spinal anesthesia in patients with poorly-palpable surface landmarks?
Duration: One year
Funding amount: CAD\$ 20,000

Principal Investigator: Ki Jinn Chin
Co-Investigators: **Anahi Perlas**, Vincent Chan

- 2013 – 2015 Funding Agency: Academic Health Sciences Centers Alternate funding Plan Innovation Award
Project title: Ultrasound Assessment of Gastric Content and Volume in the Obstetric Patient
Duration: Two and a half years
Funding amount: CAD\$ 99,600
Principal Investigator: Cristian Arzola
Co-Investigators: **Anahi Perlas**, Jose Carvalho
- 2015-2018 Funding Agency: Alfred Health, Australia
Project title: Restrictive vs. Liberal Fluid Therapy in Major Abdominal Surgery. An international Multicenter trial
Duration: Three years
Funding amount: CAD\$ 60,000 (total projected for the site)
Site Principal Investigator: **Anahi Perlas**
Co-Investigators (Canadian Sites only): Vincent Chan, Stuart McCkuskey, Angela Jerath, John Granton, David Urbach
- 2016-2017 Funding Agency: Physician Services Incorporated
Project title: Accuracy of Gastric Ultrasound to Diagnose a Full Stomach. A Bayesian Framework
Duration: One year
Funding Amount: CAD\$ 19,500
Supervisor-Principal Investigator: **Anahi Perlas**
Resident PI: Luis Chaparro
Co-Investigators: Vincent Chan, Richelle Kruisselbrink

E. PUBLICATIONS

Senior Responsible Author (SRA), Principal Author (PA), Co-Principal Author (CPA), Collaborator (CL)

1. Peer-reviewed articles

1. Peng P, Chan V, **Perlas A**. Minimum effective anesthetic concentration of hyperbaric lidocaine for spinal anesthesia.
Canadian Journal of Anesthesia 1998 Feb; 45(2): 122-129 (**CL**)
2. Al-Kaisy A, McGuire G, Chan V, Bruin G, Peng P, Miniaci A, **Perlas A**. Analgesic effect of interscalene block using low-dose bupivacaine for outpatient shoulder arthroscopy.
Regional Anesthesia & Pain Medicine 1998 Sep-Oct; 23(5): 469-473 (**CL**)
3. Al-Kaisy A, Chan V, **Perlas A**. Respiratory effects of low-dose bupivacaine interscalene block.
British Journal of Anaesthesia 1999; 82(2): 217-220 (**CL**)
4. Chan V, Nazarnia S, Kaszas Z, **Perlas A**. The impact of saline flush of the epidural catheter on the resolution of epidural anesthesia in volunteers. A dose-response study.
Anesthesia and Analgesia 1999; 89(4): 1006-1010 (**CL**)
5. **Perlas A**, Peng PW, Plaza MB, Middleton WJ, Chan VW, Sanandaji K. Forearm Rescue Cuff Improves Tourniquet Tolerance During Intravenous Regional Anesthesia.
Regional Anesthesia & Pain Medicine 2003; 28(2): 98-102 (**PA**)

6. **Perlas A**, Chan VW, Simons M. Brachial Plexus examination and localization using ultrasound and electrical stimulation: a volunteer study.
Anesthesiology 2003 Aug; 99(2): 429-435 (**PA**)
7. Chan V, **Perlas A**, Rawson A, Odukoya, O. Ultrasound Guided Supraclavicular Brachial Plexus Block.
Anesthesia and Analgesia 2003; 97: 1514-1517 (**CPA**)
8. Chan V, Nova H, Abbas Sh, McCartney C, **Perlas A**, Xu DQ. Ultrasound examination and localization of the sciatic nerve: A volunteer study.
Anesthesiology 2006; 104(2): 309-314 (**CL**)
9. **Perlas A**, Niazi A, McCartney C, Chan, V, Xu D, Abbas S. The sensitivity of motor response to nerve stimulation and paresthesia for nerve localization as evaluated by ultrasound.
Regional Anesthesia & Pain Medicine 2006; 31(5): 445-450 (**PA**)
10. Naik V, **Perlas A**, Deven B, David Y, Chan V. An assessment tool for brachial plexus regional anesthesia performance: establishing construct validity and reliability.
Regional Anesthesia & Pain Medicine 2007; 32(1): 41-45 (**CPA**)
11. Chan VWS, **Perlas A**, McCartney C, Brull R, Xu D, Abbas SH. Ultrasound guidance improves success rate of axillary brachial plexus.
Canadian Journal of Anesthesia 2007; 54(3): 176-182 (**CPA**)
12. Lo N, Brull R, **Perlas A**, Chan VW, McCartney CJ, Sacco R, El-Beheiry H. Evolution of ultrasound guided axillary brachial plexus blockade: retrospective analysis of 662 blocks.
Canadian Journal of Anesthesia 2008; 55(7): 408-413 (**CPA**)
13. **Perlas A**, Brull R, Chan V, McCartney C, Nuica A, Abbas S. Ultrasound guidance improves the success of sciatic nerve block at the popliteal fossa.
Regional Anesthesia and Pain Medicine 2008; 33(5): 259-265 (**PA**)
14. Brull R, Wijayatilake DS, **Perlas A**, Chan VW, Abbas S, Liguori GA, Hargett MJ, El Beheiry H. Practice patterns related to block selection, nerve localization and risk disclosure: a survey of the American Society of Regional Anesthesia and Pain Medicine.
Regional Anesthesia & Pain Medicine 2008; 33(5): 395-403 (**CPA**)
15. Chin KJ, **Perlas A**, Chan V, Brull R. Needle visualization in ultrasound-guided regional anesthesia: challenges and solutions.
Regional Anesthesia Pain Medicine 2008; 33(6): 532-544 (**SRA**)
16. Manickam B, **Perlas A**, Chan V, Brull R. The role of a pre-procedure systematic sonographic survey in ultrasound guided regional anesthesia.
Regional Anesthesia & Pain Medicine 2008; 33(6) 566-570 (**SRA**)
17. **Perlas A**, Lobo G, Lo N, Brull R, Chan V, Karkhanis R. Ultrasound guided supraclavicular block. Outcome of 510 consecutive cases.
Regional Anesthesia and Pain Medicine 2009; 34(2): 171-176 (**PA**)
18. Duggan E, El-Beheiry H, **Perlas A**, Chan V, Lupu M, Nuica A, Brull R. Minimum Effective Volume of Local Anesthetic for Ultrasound-guided Supraclavicular Brachial Plexus Block.
Regional Anesthesia and Pain Medicine 2009; 34(3): 215-218 (**CPA**)
19. **Perlas A**, Chan V, Lupu M, Mitsakakis N, Hanbidge A. Ultrasound Assessment of Gastric Content and Volume.
Anesthesiology 2009; 111(1): 82-89 (**PA**)

20. Chin KJ, **Perlas A**, Singh M, Arzola C, Prasad A, Chan V, Brull R. An ultrasound-assisted approach facilitates spinal anesthesia for total joint arthroplasty.
Canadian Journal of Anesthesia 2009; 56(9): 643-650 **(SRA)**
21. Manickam B, **Perlas A**, Duggan E, Brull R, Chan V, Ramlogan R. Feasibility and Efficacy of Ultrasound-guided Block of the Saphenous Nerve at the Adductor Canal.
Regional Anesthesia Pain Medicine 2009; 34(6): 578-580 **(SRA)**
22. Brull R, Lupu M, **Perlas A**, Chan V, McCartney C. Compared with dual nerve stimulation, ultrasound guidance shortens the time for infraclavicular block performance.
Canadian Journal of Anesthesia 2009; 56(11): 812-818 **(CPA)**
23. Chin KJ, Chan V, Ramlogan R, **Perlas A**. Real-time ultrasound-guided spinal anesthesia in patients with challenging spinal anatomy: two case reports.
Acta Anesthesiologica Scandinavica 2010; 54(2): 252-255 **(CL)**
24. Neal J, Brull R, Chan V, Grant S, Horn JL, Liu S, McCartney C, Narouze S, **Perlas A**, Salinas F, Sites B, Tsui B The ASRA Evidence-Based Medicine Assessment of Ultrasound-Guided Regional Anesthesia and Pain Medicine: Executive Summary.
Regional Anesthesia and Pain Medicine 2010; 35 (2): S1-S9 **(CPA)**
25. **Perlas A** Evidence for the Use of ultrasound in Neuraxial Blocks.
Regional Anesthesia and Pain Medicine 2010; 35(2): S43-46 **(PA)**
26. O'Donnell D, Manickam B, **Perlas A**, Karkhanis R, Chan VW, Brull R Spinal mepivacaine with fentanyl for outpatient knee arthroscopy surgery: a randomized controlled trial.
Canadian Journal of Anesthesia 2010; 57(1): 32-38 **(CL)**
27. Prasad A, **Perlas A**, Ramlogan R, Brull, Chan V. Popliteal block distal to sciatic nerve bifurcation shortens onset time. A prospective randomized double-blind study.
Regional Anesthesia and Pain Medicine 2010; 35 (3): 267-271 **(SRA)**
28. Chin KJ, **Perlas A**, Chan V, Brown-Shreves D, Koshkin A, Vaishnav V. Ultrasound imaging facilitates spinal anesthesia in adults with difficult surface anatomical landmarks.
Anesthesiology 2011; 115(1): 94-101 **(CPA)**
29. **Perlas A**, Davis L, Khan M, Mitsakakis N, Chan V. Gastric sonography in the fasted surgical patient. A prospective descriptive study.
Anesthesia and Analgesia 2011; 113(1) 93-97 **(PA)**
30. Cubillos J, Tse C, Chan V, **Perlas A**. Bedside Ultrasound Assessment of Gastric Content. An observational study.
Canadian Journal of Anesthesia 2012; 59(4) 416-423 **(SRA)**
31. **Perlas A**, Mitsakakis N, Liu L, Cino M, Haldipur N, Davis L, Cubillos J, Chan V. Validation of a mathematical model for ultrasound assessment of gastric volume by gastroscopic examination.
Anesthesia and Analgesia 2013 February; 116(2) 357-363 **(PA)**
32. **Perlas A**, Wong P, Abdallah F, Hazrati LN, Tse C, Chan V. Ultrasound-guided popliteal block through a common paraneural sheath versus conventional injection. A prospective, randomized double-blind study.
Regional Anesthesia and Pain Medicine 2013 May; 38(3) 218-225 **(PA)**
33. **Perlas A**, Kirkham K, Billing R, Tse C, Brull R, Gandhi R, Chan V. The impact of analgesic modality on early ambulation following total knee arthroplasty.
Regional Anesthesia and Pain Medicine 2013 July; 38(4) 334-339 **(PA)**

34. Arzola C, Carvalho J, Cubillos J, Ye X, **Perlas A**. Anesthesiologists' learning curves for bedside qualitative ultrasound assessment of gastric content: a cohort study.
Canadian Journal of Anesthesia 2013 August; 60 (8): 771-779 **(SRA)**
35. Van de Putte P, **Perlas A**. Ultrasound assessment of gastric content and volume. A systematic review of the literature. **(Editor's choice)**
British Journal of Anesthesia 2014 July; 113 (1): 12-22 **(SRA)**
36. Kruisselbrink R, Arzola C, Endersby R, Tse C, Chan V, **Perlas A**. Intra and inter-rater reliability of ultrasound assessment of gastric volume.
Anesthesiology 2014 July; 121 (1):46-51 **(SRA)**
37. Van de Putte P, **Perlas A**. Gastric sonography in the severely obese surgical patient. A feasibility study.
Anesthesia and Analgesia 2014 November; 119:1105-1110 **(SRA)**
38. Arzola C, Cubillos J, **Perlas A**, Downey K, Carvalho J. Inter-rater reliability and agreement of qualitative ultrasound assessment of gastric content in the third trimester of pregnancy.
British Journal of Anesthesia 2014 December; 113(6): 1018-1023 **(CL)**
39. Spencer AO, Walker AM, Yeung AK, Lardner DR, Yee K, Mulvey J, **Perlas A**. Ultrasound assessment of gastric volume in the fasted pediatric patient undergoing upper gastrointestinal endoscopy: development of a predictive model using endoscopically-suctioned volumes
Pediatric Anesthesia 2015 March; 25 (3): 301-308 **(SRA)**
40. Chin K J, **Perlas A**, Chan V. The ultrasound-assisted paraspinous approach to lumbar neuraxial blockade – a simplified technique in patients with difficult anatomy.
Acta Anaesthesiologica Scandinavica 2015 May; 59 (5): 668-673 **(CPA)**
41. Arzola C, **Perlas A**, Siddiqui N, Carvalho J. Bedside gastric ultrasonography in term pregnant women before elective Cesarean delivery: A prospective cohort study.
Anesthesia and Analgesia 2015 September; 121:752-758 **(CPA)**
42. Alakkad H, Kruisselbrink R, Chin K J, Niazi A, Abbas S, Chan V, **Perlas A**. Point-of-care gastric ultrasound defines gastric content and changes the anesthetic management of elective surgical patients who have not followed fasting instructions.
Canadian Journal of Anesthesia 2015 November; 62(11):1188-1195 **(SRA)**
43. Cruz-Eng H, Riazi S, Veillette C, Ami N, Niazi AU, Chin KJ, Chan V, **Perlas A**. Early discharge and ambulatory continuous brachial plexus analgesia is a cost-effective alternative to standard inpatient care following complex arthroscopic elbow surgery. A randomized, single-blinded study.
Anesthesiology 2015 December; 123 (6):1256-66 **(SRA)**
44. **Perlas A**, Van de Putte P, Van Houwe P, Chan VWS. I-AIM framework for point-of-care gastric ultrasound.
British Journal of Anesthesia 2016 January; 116:7-11 **(PA)**
45. **Perlas A**, Chaparro L, Chin KJ. Lumbar neuraxial ultrasound for spinal and epidural anesthesia. A systematic review and meta-analysis.
Regional Anesthesia and Pain Medicine 2016 March-April; 41(2): 251-260 **(PA)**
46. Neal JM, Brull R, Horn JL, McCartney CJ, **Perlas A**, Salinas FV, Tsui BC. The Second American Society of Regional Anesthesia and Pain Medicine Evidence-Based Medicine Assessment of Ultrasound-Guided Regional Anesthesia: Executive Summary.
Regional Anesthesia and Pain Medicine 2016 March-April; 41(2): 181-194 **(CPI)**

47. Burkett-St.Laurent D, Peng P, Giron Arango L, Niazi A, Chan V, Agur A, **Perlas A**. The nerves of the Adductor Canal and the Innervation of the Knee: An Anatomic Study. **Regional Anesthesia and Pain Medicine** 2016; May-June; 41 (3): 321-327 **(SRA)**
48. El-Boghdadly K, Kruisselbrink R, Chan V, **Perlas A**. Gastric Ultrasound. **Anesthesiology** 2016 May DOI: 10.1097/ ALN0000000000001043 **(SRA)**
49. **Perlas A**, Beattie S, Chan V. Anesthesia technique and mortality after total hip or knee arthroplasty. A retrospective, propensity-matched cohort study. **Anesthesiology** 2016; accepted for publication **(PA)**
50. Oh J, **Perlas A**, Lau J, Gandhi R, Chan V. Functional outcome and cost-effectiveness of outpatient vs. inpatient care for complex foot and ankle surgery. A retrospective cohort study. **Journal of Clinical Anesthesia** 2016; accepted for publication **(PA)**
51. Abdallah F, **Perlas A**, Chan V. Clinical outcome measures of regional anesthesia: Metrics that matter most. **Canadian Journal of Anesthesia** 2016; submitted for publication **(COL)**
52. Ramlogan R, Niazi A, Rongyu J, Johnson J, Chan V, **Perlas A**. A virtual reality simulation model of spinal ultrasound: role in teaching spinal sonoanatomy. **Regional Anesthesia and Pain Medicine** 2016; submitted for publication **(SRA)**
53. Elsharkawy H, Maheshwari A, Babazade R, **Perlas A**, Zaky S, Mounir-Soliman L. Real-time ultrasound-guided spinal anesthesia in patients with predicted difficult anatomy. **Minerva Anesthesiologica** 2016; submitted for publication **(COL)**
54. Van de Putte P, Vernieuwe L, Jerjir A, Verschueren L, Tacke M, **Perlas A**. When fasted is not empty. A retrospective cohort study of gastric content in fasted surgical patients. **British Journal of Anesthesia** 2016; submitted for publication **(SRA)**
55. Kruisselbrink R, Arzola, Jackson T, Okrainec A, Chan V, **Perlas A**. Ultrasound Assessment of Gastric Volume in Severely Obese Individuals. A Validation Study. **British Journal of Anesthesia** 2016; submitted for publication **(SRA)**

2. Non-peer-reviewed, invited articles and editorials

1. **Perlas A**, Chan VWS. Ultrasound guided Interscalene Brachial Plexus Block. **Techniques in Regional Anesthesia and Pain Management** 2004; 8: 143-148 **(PA)**
2. **Perlas A**, Chan VWS. Neuraxial anesthesia and multiple sclerosis. **Canadian Journal of Anesthesia** 2005; 52:454-458 **(PA)**
3. **Perlas A**. How I do it: Ultrasound-guided axillary block. **American Society of Regional Anesthesia Newsletter** August 2005: 10 **(PA)**
4. **Perlas A**. Axillary Brachial Plexus Block: Ultrasound guided technique. **American Society of Regional Anesthesia Newsletter** November 2006: 6-9 **(PA)**
5. **Perlas A**. Management of a suspected spinal epidural hematoma. **Techniques in Regional Anesthesia and Pain Management** 2006; 10(2): 62-65 **(PA)**

6. Brull R, **Perlas A**, Chan VWS. Ultrasound-guided peripheral nerve blockade. **Current Pain and Headache Reports** 2007; 11: 25–32 **(CPA)**
7. **Perlas A**, Chan V, Brull R, van Zundert A. Ultrasound Guided Peripheral Nerve Blocks. **CPD Anesthesia** 2007; 9(2): 70-78 **(PA)**
8. **Perlas A**, Van de Putte P. So you want to learn ultrasound guided regional anesthesia? **ASRA Newsletter** November 2008; 3-4 **(PA)**
9. Chin KJ, **Perlas A**. Ultrasonography of the lumbar spine for neuraxial and lumbar plexus block. **Current Opinion in Anesthesiology** 2011; 24: 567-572 **(CPA)**
10. Niazi A, **Perlas A**. Adductor Canal Block. Does it provide analgesia for TKA? **ASRA Newsletter** 2013 November; 16-18 **(SRA)**
11. Mariano ER, **Perlas A**. Adductor canal block for total knee arthroplasty: the perfect recipe or just one ingredient? **Anesthesiology** 2014 Mar; 120(3): 530-2. PMID: 24534851. **(CPA)**
12. Short A, Chan V, **Perlas A**. Is Intentional Intraneural injection for Regional Anesthesia a case of false economy? **Reg Anesth Pain Med** 2016; 41(4):421-423 **(SRA)**

3. Letters to the Editor

1. Chan VWS, **Perlas A**. Response to: One View Is No View. **Anesthesia and Analgesia** 2004; 98:1812-1813 **(CPA)**
2. **Perlas A**, Chan VWS. In reply: Ultrasound imaging of the brachial plexus. **Anesthesiology** 2004; 100:1327-1328 **(PA)**
3. Brull R, Chan VW, McCartney CJ, **Perlas A**, Xu D. Ultrasound detects intraneural injection. **Anesthesiology** 2007; 106 (6): 1244**(CPA)**
4. **Perlas A**, Chan V, Brull R. Ultrasound guidance and success rates of axillary brachial plexus blocks. **Canadian Journal of Anesthesia** 2007; 54:584-585 **(PA)**
5. **Perlas A**, Niazi A, Chan V. In reply: Ultrasound, paresthesia and motor response. **Regional Anesthesia and Pain Medicine** 2007; 32(6): 543-44 **(PA)**
6. Brull R, **Perlas A**, Cheng PH, Chan VW. Minimizing the risk of intravascular injection during ultrasound-guided peripheral nerve blockade. **Anesthesiology** 2008; 109 (6): 1142 **(CPA)**
7. Chin KJ, **Perlas A**, Brull R, Chan VW. Ultrasound guidance is advantageous in popliteal nerve blockade. **Anesthesia and Analgesia** 2008; 107 (6): 2094-2095 **(CPA)**
8. Macfarlane AJ, **Perlas A**, Chan V, Brull R. Eight ball, corner pocket ultrasound-guided supraclavicular block: avoiding a scratch. **Regional Anesthesia and Pain Medicine** 2008; 33 (5): 502-503 **(CPA)**
9. **Perlas A**, Brull R, Chan V. In response to Dr. Borgeat. **Regional Anesthesia and Pain Medicine** 2009; 34(6): 622-623 **(PA)**

10. **Perlas A**, Chan V, Brull R. Several “correct” approaches to nerve stimulator-guided popliteal fossa block.
Regional Anesthesia and Pain Medicine 2009; 34(6): 624-625 (**PA**)
11. O’Donnell D, Prasad A, **Perlas A**. Ultrasound-assisted spinal anesthesia in obese patients.
Canadian Journal of Anesthesia 2009; 56:982-983 (**CPA**)
12. Chin KJ, **Perlas A**, Chan V, Brull R. Continuous Infraclavicular Plexus Blockade.
Anesthesia and Analgesia 2009; 109(4): 1347-1348 (**CPA**)
13. Factor D, **Perlas A**. Ultrasound – assisted lumbar plexus block in a patient with severe scoliosis
Regional Anesthesia and Pain Medicine 2010; 35(6): 568-569 (**SRA**)
14. **Perlas A**, Prasad A, Chan V. In reply: Ultrasound-guided popliteal block shortens onset time compared to pre-bifurcation sciatic block.
Regional Anesthesia and Pain Medicine 2010; 35(6): 566 (**SRA**)
15. Endersby R, Albrecht E, **Perlas A**, Chan V. Semantics, misnomer or uncertainty. Where is the epineurium on ultrasound?
Regional Anesthesia and Pain Medicine 2012; 37(3): 360-361 (**CPA**)
16. **Perlas A**, Chan V. In response to Dr. Sala Blanch. Sciatic nerve structure and nomenclature: Epineurium to Paraneurium. Is this a new paradigm?
Regional Anesthesia and Pain Medicine 2013; 38(5) September/October: 465-466 (**PA**)
17. **Perlas A**, Chan V. In response to Drs. Bouvet and Chassard. Ultrasound assessment of gastric volume. What is the best threshold?
Anesthesia and Analgesia 2013; 117 (6) December: 1509-1510 (**PA**)
18. Kirkham K, **Perlas A**. In response to Dr. Andersen and Zaric. Adductor canal block. Same-same but different name?
Regional Anesthesia and Pain Medicine 2014; 39 (3) May: 257-258 (**SRA**)
19. Spencer A, Lardner D, **Perlas A**. Reply to Bouvet et al regarding “How may a mathematical model using ultrasound measurements of antral area be predictive of gastric volume?”
Paediatric Anaesthesia 2015 October; 25: 1067-1068 (**SRA**)
20. Spencer AO, Walker AM, Lardner DR, **Perlas A**. Reply to Schmitz et al. regarding “Ultrasound assessment of gastric volume in the fasted pediatric patient undergoing upper gastrointestinal endoscopy: Development of a predictive model using endoscopically suctioned volumes”
Paediatric Anaesthesia 2016 June; 26(6): 672-3 (**SRA**)

4. Book Chapters

1. Chan VWS, **Perlas A**. Ultrasonography and Peripheral Nerve Blocks. Chapter 50, pages 545-552. In Steele S (ed): **Ambulatory Anesthesia and Perioperative Analgesia**. McGraw-Hill Medical Publishing, Philadelphia PA, 2005 (**CPA**)
2. **Perlas A**, Chan V. Ultrasound assisted peripheral nerve blocks in adults. Chapter 51, pages 663-672. In Hadzic A (ed): **Textbook of Regional Anesthesia and Acute Pain Management**. McGraw-Hill Companies, Philadelphia PA, 2007 (**PA**)

3. Chan VWS, Abbas S, Brull R, **Perlas A. Ultrasound Imaging for Regional Anesthesia.** Toronto Printing Company, Toronto ON, 2008 **(CL)**
4. **Perlas A.** Ultrasound guided femoral nerve block. Chapter 39, pages 294-296. In Chelly JE (ed): **Peripheral nerve blocks: A color atlas, 3rd edition.** Wolters Kluwer/Lippincott Williams & Wilkins Philadelphia PA, 2009 **(PA)**
5. Chan V, **Perlas A** Basics of Ultrasound Imaging. Chapter 2, pages 13-19. In Narouze S (ed): **Ultrasound for Pain Medicine.** Springer New York, NY 2010 **(PA)**
6. **Perlas A,** Riazi S, Tse C. Ultrasound-guided nerve blocks of the upper extremity. Chapter 17, pages 227-237 In Narouze S (ed): **Ultrasound for Pain Medicine.** Springer New York, NY 2010 **(PA)**
7. **Perlas A,** Factor D, Candido KD. Blocks of the lumbar plexus and its branches. In Benzon HT, Raja SN, Liu SS, Fishman SM, Cohen SP (Eds): **Essentials of Pain Medicine (3rd edition).** Elsevier Philadelphia, 2011:595-606 **(PA)**
8. Johnson JE, **Perlas A,** Chin KJ. Ultrasound guidance for central neuraxial anesthesia and analgesia. In McLoughlin TM (Ed): **Advances in Anesthesia Volume 32 (1st edition).** Elsevier (Philadelphia), 2014:149-169 **(Co-PI)**
9. Sehmbi H, **Perlas A.** Basics of ultrasound imaging. In Jankovic D and Peng P (eds): **Regional Nerve Blocks in Anesthesia and Pain Therapy,** (4th edition). Springer International Switzerland 2015:27- 56 **(SRA)**
10. Mc Vicar J, Chan V, **Perlas A.** Basics of Ultrasound Imaging. In Narouze S (ed): **Ultrasound for Pain Medicine,** (2nd edition). Springer New York, NY 2016 in press **(SRA)**
11. Mc Vicar J, Riazi S, **Perlas A.** Ultrasound-guided Nerve Blocks of the Upper Extremity. In Narouze S (ed): **Ultrasound for Pain Medicine,** (2nd edition). Springer New York, NY 2016 in press **(SRA)**

5. Selected Abstracts

1. **Perlas A,** Peng P, Chan V, Barrera-Plaza M, Sanandaji K. A forearm rescue cuff improves tourniquet pain tolerance and prolongs tourniquet time for IVRA
Anesthesiology 2002; 96: A891 **(PA)**
2. **Perlas A,** Chan V, Simons M, Odukoya S. Ultrasound guided localization of the brachial plexus. A volunteer study
Anesthesiology 2002; 96: A892 **(PA)**
3. **Perlas A,** Chan V, McCartney C. Ultrasound localization of the Sciatic nerve: A preliminary study.
Regional Anesthesia and Pain Medicine 2004; 29(2): 176, A1 **(PA)**
4. **Perlas A,** Chan V, McCartney C. Ultrasound assessment of paresthesia and electrical stimulation for nerve localization: A sensitivity study.
Regional Anesthesia and Pain Medicine 2004; 29(2): 178, A33 **(PA)**
5. Niazi A, **Perlas A,** Chan VWS, McCartney C, Xu D. Ultrasound evaluation of paresthesia and nerve stimulation.
Canadian Journal of Anesthesia 2005; 52: A44 **(PA)**
6. Nova HA, Chan VWS, Abbas S, McCartney CJL, **Perlas A,** Xu D. Ultrasound examination and localization of the sciatic nerve.

Canadian Journal of Anesthesia 2005; 52: A47 (CL)

7. Awad IT, Chan VW, **Perlas A**, McCartney C, Abbas S, Xu D, Nova H. Ultrasound versus nerve Stimulator Guided Axillary Brachial Plexus Block.
Canadian Journal of Anesthesia 2005; 52: A48 (CPA)
8. Choi M, **Perlas A**, Chan V, Naik V. Evaluation of interscalene block performance: establishing construct validity.
Regional Anesthesia and Pain Medicine 2005; 29:A38 (CPA)
9. Li C, McCartney C, **Perlas A**, Chan V. Ultrasound evaluation of needle tip position during lateral paravascular supraclavicular brachial plexus block.
Regional Anesthesia and Pain Medicine 2005; 29:A50 (CPA)
10. Tamir D, **Perlas A**, McCartney C, Chan VWS. A randomized, controlled double blind trial to determine the impact of ultrasound guidance on the success rate of popliteal fossa blocks.
Regional Anesthesia and Pain Medicine 2006; 30(3): A58 (PA)
11. **Perlas A**, Karkhanis R, Lo N, Lobo G, Chan V. Outcome after 275 Consecutive Ultrasound Guided Supraclavicular Blocks.
Anesthesiology 2007; 107: A380 (PA)
12. Morfey D, Ramlogan R, **Perlas A**, Chan V, Brull R. Ultrasound-guided supraclavicular block. Success rates and patterns of nerve sparing. (PA)
Regional Anesthesia and Pain Medicine 2009; 34(5): 440, A2 (PA)
13. Parrington S, Brull R, **Perlas A**, Macfarlane A, Xu D. Circumferential local anesthetic spread speeds the onset of ultrasound-guided sciatic nerve block at the popliteal fossa.
Regional Anesthesia and Pain Medicine 2010; 35(5): A30 (CPA)
14. Vaishnav V, Chan V, Shreves D, **Perlas A**, Brull R. Medial-to-lateral vs lateral-to-medial approach to ultrasound-guided supraclavicular block: a prospective randomized controlled trial.
Regional Anesthesia and Pain Medicine 2010; 35(5): A41 (CPA)
15. **Perlas A**, Khan M, Davis L, Mitsakakis N, Chan V. Bedside ultrasound assessment of gastric content prior to anesthetic induction
Proceedings of the Annual Meeting of the American Society of Anesthesiologists 2010; A 1328 (PA)

F. PRESENTATIONS AND SPECIAL LECTURES

1. Poster presentations

1. **Perlas A**, Peng P, Chan V, Barrera-Plaza M, Sanandaji K. A forearm rescue cuff improves tourniquet pain tolerance and prolongs tourniquet time for IVRA American Society of Anesthesiologists' Annual Meeting, Orlando FL. 2002.
2. **Perlas A**, Chan V, Simons M, Odukoya S. Ultrasound guided localization of the brachial plexus. A volunteer study American Society of Anesthesiologists' Annual Meeting, Orlando FL, 2002.
3. **Perlas A**, Chan V, McCartney C. Ultrasound assessment of paresthesia and electrical stimulation for nerve localization: A sensitivity study. American Society of Regional Anesthesia and Pain Medicine Annual Meeting, Orlando FL, 2004.

4. **Perlas A**, Chan V, McCartney C. Ultrasound localization of the Sciatic nerve. A preliminary study. American Society of Regional Anesthesia and Pain Medicine Annual Meeting, Orlando FL, 2004. **Best of the Meeting Abstract**
5. Awad IT, Chan VW, **Perlas A**, McCartney C, Abbas S, Xu D, Nova H. Ultrasound versus nerve Stimulator Guided Axillary Brachial Plexus Block. Canadian Anesthesiologists' Society Annual Meeting, Vancouver BC, Canada, 2005.
6. Nova HA, Chan VWS, Abbas S, McCartney CJL, **Perlas A**, Xu D. Ultrasound examination and localization of the sciatic nerve. Canadian Anesthesiologists' Society Annual Meeting, Vancouver BC, Canada, 2005.
7. Niazi A, **Perlas A**, Chan VWS, McCartney C, Xu D. Ultrasound evaluation of paresthesia and nerve stimulation. Canadian Anesthesiologists' Society Annual Meeting, Vancouver BC, Canada, 2005.
8. Li C, McCartney C, **Perlas A**, Chan V. Ultrasound evaluation of needle tip position during lateral paravascular supraclavicular brachial plexus block. American Society of Regional Anesthesia and Pain Medicine Annual Meeting, Toronto ON, Canada, 2005.
9. Choi M, **Perlas A**, Chan V, Naik V. Evaluation of interscalene block performance: establishing construct validity. American Society of Regional Anesthesia and Pain Medicine Annual Meeting, Toronto ON, 2005.
10. Tamir D, **Perlas A**, McCartney C, Chan VWS. A randomized, controlled double blind trial to determine the impact of ultrasound guidance on the success rate of popliteal fossa blocks. American Society of Anesthesiologists Annual Meeting, Palm Springs CA, 2006.
11. **Perlas A**, Karkhanis R, Lo N, Lobo G, Chan V. Outcome after 275 Consecutive Ultrasound Guided Supraclavicular Blocks. American Society of Anesthesiologists Annual Meeting, San Francisco CA, October 2007.
12. **Perlas A**, Lupu M, Chan V, Davis L. Ultrasound assessment of gastric content and volume. A pilot study. World Congress of Anesthesiology, Cape Town, South Africa, March 2008.
13. Manickam B, **Perlas A**, Duggan E, Chan V, Ramlogan R. Ultrasound-guided saphenous nerve block. European Society of Regional Anaesthesia Annual Meeting, Genoa, Italy, September 2008.
14. Chin KJ, **Perlas A**, Singh M, Arzola C, Prasad A, Chan V, Brull R. The role of ultrasound- assisted spinal anesthesia in patients undergoing total joint arthroplasty – a descriptive study. American Society of Anesthesiology Annual Meeting, Orlando, FA, 2008.
15. Morfey D, Ramlogan R, **Perlas A**, Chan V, Brull R. Learning ultrasound- guided supraclavicular block: Success rates and patterns of nerve sparing. American Society of Regional Anesthesia and Pain Medicine Annual Meeting. Phoenix, Arizona, May 2009. **Best of the Meeting Abstract**
16. Prasad A, **Perlas A**, Ramlogan, Brull R, Chan V. Popliteal sciatic nerve blocks distal to bifurcation speeds onset time. Canadian Anesthesiologists' Society Annual Meeting. Vancouver, BC, June 2009.
17. Vaishnav V, Cahn V, Shreves D, **Perlas A**, Brull R. Medial to Lateral vs. Lateral to Medial Approach to US-Guided Supraclavicular Block: A Prospective Randomised Controlled Trial. American Society of Regional Anesthesia and Pain Medicine Annual Meeting. Toronto, ON, April 2010
18. **Perlas A**, Kahn M, Davis L, Chan V. Bedside ultrasound assessment of gastric content prior to anesthetic induction. Anesthesiology 2010. San Diego, CA, October 2010

19. Cubillos J, Liu L, Cino M, Mitsakakis N, Chan V, **Perlas A**. Bedside ultrasound assessment of gastric volumen. Validating a mathematical volume using gastroscopic examination. Canadian Anesthesiologists' Society Meeting. Toronto, ON, June 2011
20. Wong P, Abdallah F, Tse C, Chan V, **Perlas A**. Popliteal block at the site of sciatic nerve bifurcation through a common nerve sheath. A Randomized, Double-blind Study. 37th Annual Regional Anesthesia Meeting and Workshops. San Diego, CA, March 2012
21. Cubillos J, Arzola C, **Perlas A**, Carvalho JC. "Qualitative Ultrasound Assessment of the Gastric Content of Pregnant Women at Term". Annual Meeting Society for Obstetric Anesthesia and Perinatology (SOAP) 44th Annual Meeting. Monterey, California, United States. May 2-5, 2012.
22. Wong P, Abdallah F, Tse C, Chan V, **Perlas A**. Popliteal block at the site of sciatic nerve bifurcation through a common nerve sheath. A Randomized, Double-blind Study. 2012 University of Toronto Shield's Research Day. May 4th, 2012, Toronto, ON.
Selected Best Poster presentation
23. Endersby R, Arzola C, Tse C, Davis L, Chan V, **Perlas A**. Reliability of sonographic measurements of gastric antral cross-sectional area for gastric volume evaluation. 2012 University of Toronto Shield's Research Day. May 4th, 2012, Toronto, ON.
24. Riazi S, Tse C, Chan V, **Perlas A**. Functional outcome following outpatient continuous brachial plexus analgesia for complex arthroscopic elbow surgery. 38th Annual Regional Anesthesia Meeting and Workshops. Boston. MA, May 2013
25. Murgatroyd H, Cholvisudhi P, Chin KJ, **Perlas A**, Chan V. Sensory and motor effects of mid-thigh adductor canal block. 38th Annual Regional Anesthesia Meeting and Workshops. Boston. MA, May 2013
26. Tse C, Riazi S, Chan V, **Perlas A**. Functional outcome following outpatient continuous brachial plexus analgesia for complex arthroscopic elbow surgery. 2013 University of Toronto Shield's Research Day. May 2013
27. Allakad H, Abbas K, ChanV, **Perlas A**. Does gastric sonography change anesthetic management in non-fasted elective surgical patients? 2013 University of Toronto Shield's Research Day. May 2013.
Selected Best study presented by a fellow
28. **Perlas A**, Davis L, Tse C. Reliability of ultrasound gastric volume assessment for the prevention of aspiration pneumonia. European Respiratory Society Annual Congress. Barcelona, Spain, September 2013.
29. Arzola C, Siddiqui N, **Perlas A**, Carvalho JCA. Gastric ultrasonography in fasted term pregnant women scheduled for elective Cesarean delivery: a prospective descriptive study. 46th Annual Meeting of the Society for Obstetric Anesthesia and Perinatology. Toronto, ON, May 2014
30. Arzola C, Siddiqui N, **Perlas A**, Carvalho JCA. Gastric ultrasound in fasted pregnant women for caesarean delivery. Canadian Anesthesiologists' Society Annual Meeting, St. John's, NF, June 2014.
31. Ghosh M, Chin KJ, Niazi A, Cruz-Eng H, Chan V, **Perlas A**. Adductor Canal Block. Analgesia and functional recovery after TKA. Annual University of Toronto Anesthesia Shield's Research Day, University of Toronto, Toronto, ON, May 8th, 2015.
32. Ghosh M, Chin KJ, Niazi A, Cruz-Eng H, Chan V, **Perlas A**. Adductor Canal Block. Analgesia and functional recovery after TKA. 40th Annual Meeting of the American Society of Regional Anesthesia and Pain Medicine. Las Vegas, NV, May 16th, 2015

33. Spencer A, Walker A, Yeung A, Lardner D, Yee K, Mulvey J, **Perlas A**. Antral Sonography in pediatric patients with large gastric volumes. Canadian Society of Anesthesiologists' Annual Meeting, Ottawa, ON, June 19th to 22nd, 2015 **Best Pediatric Anesthesia Paper**
34. Lau J, Oh J, Chan V, Gandhi R, **Perlas A**. Functional outcome of outpatient vs. inpatient care for complex ankle and hindfoot surgery. A retrospective cohort study. Annual Meeting of the American Orthopedic Foot and Ankle Society Long Beach, CA, July 17, 2015.
35. Short A, Burkett-St.Laurent D, Peng P, Giron Arango L, Niazi A, Chan V, Agur A, **Perlas A**. The nerves of the Adductor Canal and the Innervation of the Knee: An Anatomic Study. University of Toronto, Department of Anesthesia Annual Shield's Research Day. Toronto, ON, May 13th, 2016
36. El-Boghdady K, **Perlas A**, Chan V, Beattie S. Anesthesia technique and mortality after total hip or knee arthroplasty. A retrospective, propensity-matched cohort study. University of Toronto, Department of Anesthesia Annual Shield's Research Day. Toronto, ON, May 13th, 2016
37. Vernieuwe L, Van de Putte P, **Perlas A**. The incidence of "full stomach" in an elective fasted surgical population. Euroanesthesia 2016 London, UK, May 30th, 2016.

2. Invited lectures and workshops

1. 11th Annual University of Toronto Regional Anesthesia and Pain Medicine. Workshop: Ultrasound guided blocks. Toronto ON, Canada, October 2004.
2. Anesthesia Practice, University of Toronto. Plenary Session Lecture: Anticoagulation and regional anesthesia. Toronto ON, Canada, November 2004.
3. Varkey Anesthesia Workshop, University of Western Ontario. Workshop: Ultrasound of the femoral and sciatic nerves. London ON, Canada, December 2004.
4. 30th American Society of Regional Anesthesia & Pain Medicine Annual Spring Meeting. Workshop: Ultrasound guided nerve blocks of the lower extremity. Workshop: Below the clavicle blocks. Toronto ON, Canada, April 2005.
5. 18th Annual Meeting, Society for Ambulatory Anesthesia. Workshop: Ultrasound of the brachial plexus above the clavicle. Scottsdale, Arizona, May 2005.
6. 61st Canadian Anesthetists' Society Annual Meeting. Workshop: Ultrasound guided brachial plexus blocks below the clavicle. Vancouver, BC, Canada, June 2005.
7. 10th Annual Ontario Anesthesia Meeting. Lecture: Use of Ultrasound in nerve Blocks, the primer. Workshop: Ultrasound guided nerve blocks. Burlington ON, Canada, September 24, 2005.
8. 3rd International Symposium of Ultrasound in Regional Anesthesia. Lecture: Ultrasound for Nerve blocks: Technical considerations. Workshop: Ultrasound guided sciatic nerve block. Toronto ON, Canada, April 23-24, 2006.
9. 10th Annual Regional Anesthesia Symposium. Hospital for Special Surgery. Lecture: Neurologic work-up and follow-up of a perioperative nerve injury. Workshop: Ultrasound imaging of the brachial plexus. New York NY, May 13, 2006.
10. 62nd Canadian Society of Anesthesiologists' Annual Meeting. Workshop: Lower extremity blocks using ultrasound and nerve stimulation. Toronto ON, Canada, June 19, 2006.

11. 51st Annual Ontario Anesthesia Meeting. Workshop: Ultrasound of the brachial plexus. Burlington ON, Canada, September 17, 2006.
12. 13th Annual University of Toronto Regional Anesthesia and Pain Medicine. Workshop: Ultrasound guided sciatic nerve blocks. Toronto ON, Canada, October 1, 2006.
13. Hospital for Special Surgery Grand Rounds. Lecture: Epidural Hematoma. New York, NY, USA, November 2, 2006.
14. Anesthesia Practice, University of Toronto. Workshop: Ultrasound of the brachial plexus. Toronto ON, Canada, November 26, 2006.
15. Varkey Regional Anesthesia Workshop, University of Western Ontario. Workshop: Ultrasound of the sciatic nerve. London ON, Canada, December 2, 2006.
16. International Symposium on Ultrasound for Regional Anesthesia. Lecture: Ultrasound Physics and Sonoanatomy. Workshop: Ultrasound guided brachial plexus anesthesia. Florianopolis SC, Brazil, March 1-2, 2007.
17. Canadian Anesthesiologists' Society Annual Meeting. Symposium Chair and panel member: Challenges for implementing standards using new knowledge and technology in regional anesthesia training and practice. Workshop: Thoracic epidural, and upper/lower peripheral nerve blocks using nerve stimulation and ultrasound. Workshop: Basic ultrasound for superficial lower extremity blocks. Workshop: Advanced ultrasound for deep regional blocks
Panel Discussion: Clinical pearls in making surgical regional anesthesia work: from central neuraxial to peripheral nerve block. Calgary, Alberta, Canada, June 23 - 25, 2007.
18. 14th Annual University of Toronto Regional Anesthesia and Pain Medicine. Workshop: Intensive workshop: Upper limb nerve blocks. Huntsville ON, Canada, September 13-14, 2007.
19. 1st Course "Salvador Ceron Gyves" On Ultrasound Guided Regional Anesthesia. Angeles del Pedregal Hospital, La Salle University. Lecture: Introduction to ultrasound guided regional anesthesia. Lecture: Ultrasound guided brachial plexus blocks. Workshop: Ultrasound of the brachial plexus. OR Demonstration: Femoral and sciatic nerve blocks. Mexico DF, Mexico, October 12, 2007.
20. American Society of Anesthesiologists Annual Meeting. Workshop: Continuous nerve blocks for pain control. In the hospital and beyond. Workshop: Peripheral nerve blocks: Ultrasound, simulation and stimulation. San Francisco CA, October 13 -17, 2007.
21. Varkey Regional Anesthesia and Anatomy workshop. University of Western Ontario. Lecture: Significant papers in ultrasound in regional anesthesia. Workshop: Ultrasound of the sciatic Nerve. London ON, Canada November 30 - December 1, 2007.
22. 5th Annual International Symposium of Ultrasound for Regional Anesthesia. Lecture: Ultrasound-guided infraclavicular and axillary blocks. Workshop: Infraclavicular and axillary blocks. Workshop: TAP block and Ilio-inguinal/Ilio-hypogastric blocks. Lecture: Stomach scanning and NPO. Toronto ON, Canada April 24 - 27, 2008.
23. American Society of Regional Anesthesia Annual Meeting. Workshop: Ultrasound basic/Lower extremity. Cancun, Mexico, May 1, 2008.
24. 2008 Canadian Anesthesiologists Society Annual Meeting. Workshop Chair: Basic upper limb ultrasound blocks. Halifax, NS, June 16, 2008.

25. 2nd Annual Ultrasound-guided Regional Anesthesia Workshop. Mexican Federation of Anesthesiology. Lecture: Physical basis of ultrasound and sonoanatomy. Lecture: Ultrasound of the brachial plexus. Lecture: Ultrasound of the sciatic nerve. Los Cabos, Mexico, July 17-19, 2008.
26. 8th Panamerican Symposium of Regional Anesthesia-LASRA. Lecture: Ultrasonography of the neuraxis. Lecture: Basic physics of ultrasonography. Workshop: Ultrasound guided brachial plexus blocks. Buenos Aires, Argentina, August 13-16 2008.
27. Latinamerican Simposium of Regional Anesthesia Lecture: Ultrasound guided brachial plexus blocks. Lecture: Ultrasound guided lumbosacral plexus blocks. Mexico City, Mexico, September 4-5, 2008.
28. 15th Annual University of Toronto Regional Anesthesia and Pain Medicine Hands-on workshop. Workshop: Intensive upper limb. Workshop: Intensive lower limb. Lecture: Local anesthetic toxicity and treatment. Niagara-on-the-Lake ON, September 25-28, 2008.
29. 34th Annual Regional Anesthesia Meeting and Workshops. Workshop: Ultrasound guided brachial plexus blocks. Orlando FL, October 21, 2008.
30. Varkey Ultrasound Guided Regional Anesthesia and Anatomy Update. Lecture: Lower limb blocks. Workshop: Upper limb blocks. London ON, November 29 – December 1, 2008.
31. North York General Hospital Anesthesia Grand Rounds. Local anesthetic toxicity and treatment. Toronto ON, February 25, 2009.
32. American Society of Regional Anesthesia Annual Meeting. Workshop: Ultrasound guided brachial plexus blocks. Lecture: Ultrasound and neuraxial blocks: Review of the evidence. PBL session: Rescue blocks. When your regional anesthesia isn't perfect. Phoenix, AZ, April 30 - May 3, 2009.
33. International Symposium of Ultrasound in Regional Anesthesia. Lecture: Ultrasound-guided Infraclavicular and Axillary Blocks. Schwetzingen, Germany, September 12, 2009.
34. Curso de Ultrasonido en Anestesia Regional y Accesos Vasculares. Lecture: Ultrasound-guided neuraxial anesthesia. Lecture: Ultrasound of the femoral, obturator, femorocutaneous and saphenous nerves. Lecture: Ultrasound guided regional anesthesia: Evidence and future challenges. Clinica Davila, Santiago de Chile, Chile, October 2-3, 2009.
35. American Society of Anesthesiology Annual Meeting. Workshop: Ultrasound-guided blocks below the clavicle. New Orleans, LA, October 19, 2009.
36. University of Toronto – TWH Advanced Ultrasound Regional Anesthesia Workshop. Lecture: Ultrasound for neuraxial anesthesia. Workshop Instructor: All advanced blocks. University of Toronto, Toronto Western Hospital, Toronto, ON, December 4-5 2009
37. 35th Annual Regional Anesthesia Meeting and Workshops. Lecture: Catheter confirmation – determining correct catheter tip placement. Workshop 2: Continuous upper and lower extremity nerve blocks. Workshop 16: Continuous lower extremity nerve blocks; Workshop 23: Continuous brachial plexus blocks above the clavicle; PBLD 8: Ultrasound 101: Understanding the role of ultrasound physics and knobology in image acquisition. Toronto, ON, April 22-25, 2010
38. 7th Annual International Symposium of Ultrasound for Regional Anesthesia and Pain Medicine. Lecture: Literature review. Workshop: High Sciatic Nerve Approaches. Toronto, June 4-6, 2010
39. 2010 Canadian Anesthesiologists' Society Annual Meeting. Workshop 5: Anesthesia Assistant workshop: Upper and lower limb peripheral nerve block technique and testing. Montreal, June 27 2010

40. NYSORA Regional Anesthesia Workshop. Lecture: Basics of Ultrasound Imaging; Lecture: Brachial plexus blocks above the clavicle. New York, NY, September 25 2010
41. 38th Chilean National Congress of Anesthesiology. Lecture: Evidence for the use of brachial plexus anesthesia in shoulder surgery. Lecture: Regional anesthesia for total knee replacement. Lecture: Contributions of regional anesthesia to orthopedic surgery in the past 10 years. Workshop: Ultrasound guided brachial plexus blocks. Puerto Varas, Chile, October 8-10 2010
42. 2010 American Society of Anesthesiology Annual Meeting. Workshop instructor: Ultrasound guided regional anesthesia and clinical skills workshop. San Diego, CA, October 18 2010
43. University of Toronto – TWH Advanced Ultrasound Regional Anesthesia Workshop. Lecture: Ultrasound for neuraxial anesthesia. Workshop Instructor: All advanced blocks. Toronto Western Hospital, Toronto, ON, December 3-4 2010
44. University of Toronto – TWH Advanced Ultrasound Regional Anesthesia Workshop. Lecture: Ultrasound for neuraxial anesthesia. Workshop Instructor: All advanced blocks. Toronto Western Hospital, Toronto, ON, March 4-5 2011
45. 29th Colombian National Anesthesia Congress. Lecture: Evidence for ultrasound-guided neuraxial blocks. Lecture: how to perform an ultrasound examination of the lumbar spine. Workshop: Anatomy and hands-on workshop: Ultrasound of the lumbar spine. Medellin, Colombia, March 17-20 2011
46. 17th Uruguayan National Anesthesia Congress. Lecture: Ultrasound-guided brachial plexus blocks. Lecture: TAP locks. Techniques and effectiveness. Lecture: Regional anesthesia and nerve injury. Lecture: Learning regional anesthesia at the University of Toronto. Workshop: Ultrasound of the neuraxis. Montevideo, Uruguay, April 2-5 2011
47. 36th Annual Regional Anesthesia Meeting and Workshops. Lecture: Educating Residents and Education Pathways. Workshop: Proximal Sciatic Nerve Blocks. Workshop: Basics of Ultrasonography; Physics and Knobology. PBLD: Educating the next generation of regional anesthesiologists. Las Vegas, NV, May 5-8 2011
48. 2011 Canadian Anesthesiologists' Society Annual Meeting. Lecture: Refresher Course 10: The year in review: Top Regional Anesthesia Papers of 2012-2011. Toronto, ON, June 24-28, 2011
49. 2011 American Society of Anesthesiology Annual Meeting. Workshop Instructor: Ultrasound- guided peripheral nerve blocks. Lecture: Evidence-based review of ultrasound-guided neuraxial blocks. Chicago, IL October 15-19, 2011
50. 17th University of Toronto Regional Anesthesia and Pain Medicine Hands-on Workshop. Lecture: Distal Sciatic Nerve/Ankle blocks. Workshop Instructor: Intensive Upper and Lower Limb Workshop. Workshop Instructor: Lumbar Plexus Blocks. Toronto, ON, October 27-30 2011
51. University of Toronto – TWH Advanced Ultrasound for Regional Anesthesia Workshop. Lecture: Ultrasound for Neuraxial Anesthesia; Workshop Instructor: Advanced ultrasound-guided blocks. Toronto, ON, November 18-19, 2011
52. 37th Annual Regional Anesthesia Meeting and Workshops. Lecture: Ultrasound-guided regional anesthesia. An update on evidence-based outcomes. Workshop instructor: Hands-on Challenging anatomy. PBLD: Ultrasound physics and applied “knobology”. San Diego, CA, March 15-18, 2012
53. 15th WFSA World Congress of Anesthesiologists. Lecture: Neuraxial Ultrasound. A new frontier. Workshop instructor: Ultrasound-guided lower extremity blocks (English). Workshop Chair: Ultrasound-guided neuraxial and abdominal wall blocks (English). Workshop Chair: Ultrasound-guided neuraxial and abdominal wall blocks (Spanish). Buenos Aires, Argentina, March 25-30, 2012.

54. Queensville Anesthesia Lecture Series. Lecture: Transverse Abdominis Plane Blocks. Newmarket, ON, April 18, 2012
55. Credit Valley Hospital Anesthesia Grand Rounds Lecture: Transverse Abdominis Plane Blocks. Mississauga, ON, April 23rd, 2012
56. Toronto Western Hospital – University Health Network Nursing Grand Rounds. Lecture: My patient atewhat? Preoperative fasting guidelines and gastric sonography. June 15, 2012
57. 9th Annual International Symposium of Ultrasound for Regional Anesthesia and Pain Medicine- ISURA 2012. Lecture: Can ultrasound or electrical nerve stimulation decrease intravascular injections and nerve injury? Lecture: Most significant UGRA publications in the past 3 years. Workshop: Basic Upper and Lower extremity blocks. Workshop: Neuraxial ultrasound for difficult spine. Workshop Chair: Gastric ultrasonography to assess gastric content and volume. Toronto, ON, June 22-25, 2012
58. 10th Annual Obstetric Anesthesia Conference and Workshop. Lecture: "Can we make clinical use of gastric ultrasound assessment of the pregnant woman? Toronto, ON, September 22nd, 2012
59. University of Toronto – TWH Introductory Ultrasound for Regional Anesthesia Workshop. Program Director and Lectures: Fundamental ultrasound principles and equipment functionality; Brachial plexus blocks above the clavicle; Outcome data review; Toronto, ON, September 28-30, 2012
60. American Society of Anesthesiologists Annual Meeting. Panel chair and moderator: Ultrasound guided regional anesthesia. An evidence-based review of the evidence. Workshop Instructor: Gastric ultrasound to assess gastric content and volume (part of the difficult airway workshop). Washington, DC, October 12- 17, 2012
61. 19th Annual Anesthesia Winterlude Symposium. Lecture: Improving patient safety: Ultrasound for regional, vascular, airway and more. Ottawa, ON, February 3rd, 2013.
62. Latinamerican Symposium of Regional Anesthesia (LASRA). Lecture: Ultrasound-guided blocks of the lumbar plexus and its branches. Lecture: Perioperative Ultrasound: a tool beyond Regional Anesthesia. Montevideo, Uruguay, April 18-20th, 2013
63. 38th Annual Regional Anesthesia Meeting and Workshops. Lecture: Evidence-based review of ultrasound for neuraxial blocks. Workshops: Challenging anatomy and Brachial plexus blocks above the clavicle. Boston, MA, May 2-5th, 2013
64. Mount Sinai Medical Center Visiting Professor Lecture Series: My patient ate what? Ultrasound assessment of gastric content and volume. New York, NY, June 12th, 2013
65. University of Toronto – TWH Advanced Ultrasound for Regional Anesthesia Workshop. Lecture: Ultrasound for Neuraxial Anesthesia; Workshop Instructor: Advanced ultrasound-guided blocks. Toronto, ON, June 14-15th, 2013
66. University of Toronto – TWH Introductory Ultrasound for Regional Anesthesia Workshop. Course Director. Lecture: Ultrasound of the Brachial Plexus. Toronto, ON, October 4-6th, 2013
67. American Society of Anesthesiologists' Annual Meeting. Panel chair and moderator: Ultrasound guided regional anesthesia. Past, present and future. Workshop Instructor: Gastric ultrasound assessment of gastric content and volume (part of the difficult airway workshop). San Francisco, CA, October 11- 16th 2013

68. University of Toronto – TWH Advanced Ultrasound for Regional Anesthesia Workshop. Lecture: Ultrasound for Neuraxial Anesthesia; Lecture: Ultrasound guided small nerve blocks of the lower extremity. Workshop Instructor: Advanced ultrasound-guided blocks. Toronto, ON, November 1-2nd, 2013
69. Toronto Western Hospital – Anesthesia Fellows' rounds. My patient ate what? Ultrasound assessment of gastric content and volume. Toronto, ON, February 13th, 2014
70. 39th Annual Meeting and Workshops of the American Society of Regional Anesthesia and Pain Medicine. Plenary Lecture: Nerve Injury – Review of Risk factors and correlation with nerve anatomy. Lecture/ Pro/Con debate: Should Residents and fellows be taught nerve finding techniques other than nerve stimulation? PBLD: What else can I use my ultrasound machine for? Workshop: Lumbar Plexus and Sciatic Blocks. Chicago, IL, USA, April 3-6th, 2014
71. St. Luke's Hospital Visiting Professor Rounds. My patient ate what? Ultrasound assessment of gastric content and volume. New York, NY, May 27-28, 2014
72. 11th International Symposium of Ultrasound for Regional Anesthesia, Pain Medicine and perioperative applications. Pro-con debate: Peripheral nerve block is more efficacious than epidural for major abdominal surgery (CON side); Lecture; Best UGRA papers in the past 2 years; Lecture: Ultrasound imaging of the stomach and esophagus. Workshop lead: Gastric ultrasound imaging for peri-op aspiration risk assessment. Toronto, ON, June 21-24, 2014
73. Anesthesiology 2014. Speaker - Pro/con debate: Ultrasound-guided regional anesthesia – Pushing the limits or over the edge? New Orleans, LA, October 11th, 2014
74. Anesthesiology 2014. Workshop instructor: Gastric ultrasound for assessment of npo status as part of the Difficult Airway Workshop with Simulation. New Orleans LA, October 13th, 2014
75. Anesthesiology 2014. Panel leader and moderator: Should I be using more than one local anesthetic additive during peripheral nerve blockade? New Orleans, LA, October 14th, 2014
76. Mayo Clinic Visiting Professor Rounds. My patient ate what? Ultrasound assessment of gastric content and volume. Rochester, Minnesota, November 3rd, 2014
77. 4th World Congress of Regional Anaesthesia and Pain Therapy. Lecture: Prevention of Intraneural Injection. Cape Town, South Africa, November 25th, 2014
78. 4th World Congress of Regional Anesthesia and Pain Therapy. Workshop Lead: Ultrasound for Central Neuraxial Anesthesia. Cape Town, South Africa, November 26th, 2014
79. 4th World Congress of Regional Anesthesia and Pain Therapy. Lecture: Semantics, misnomer or uncertainty. Where is the epineurium on ultrasound? Cape Town, South Africa, November 27th, 2014
80. 4th World Congress of Regional Anesthesia and Pain Therapy. Workshop Lead: Ultrasound for Central Neuraxial Anesthesia. Cape Town, South Africa, November 28th, 2014
81. 30th International Winter Symposium of the Catholic University of Leuven: Obstetric Anesthesia: Towards Better Care for Mother and Child. Workshop lead: Ultrasound assessment of n.p.o. status and ultrasound-assisted neuraxial anesthesia. Leuven, Belgium, February 6th and 7th, 2015
82. 40th Annual Meeting and Workshops of the American Society of Regional Anesthesia and Pain Medicine. Lecture: To TAP or not to TAP. The Abdominal Surgery Dilemma. Workshop Lead: Lumbar Plexus and Proximal Sciatic Blocks. Las Vegas, NV, May 14th-16th, 2015

83. 19th Annual Regional Anesthesia and Pain Medicine Meeting. Lecture: Point-of-care Gastric ultrasound for aspiration risk assessment. Toronto, ON, Canada, June 5th, 2015
84. 1st Ultrasound for perioperative applications workshop, University of Toronto. Lecture: Ultrasound for evaluation of gastric content and volume. Toronto, ON, Canada, September 4-5, 2015
85. Ontario Anesthesia Meeting. Lecture and workshop: Ultrasound assessment of gastric content and volume. Toronto, ON, Canada, September 24-27, 2015
86. Anesthesiology 2015. Lecture: Nerve Injury following regional anesthesia: anatomic considerations, mechanisms, risk factors and prognosis. Workshop: Ultrasound assessment of gastric content and volume as part of the Difficult Airway Workshop. San Diego, CA, USA, October 24-28, 2015
87. Point-of-care Ultrasound Symposium. Lecture and workshop: Ultrasound assessment of gastric content and volume. Toronto, ON, Canada, November 6th, 2015
88. 14th Annual Pain Medicine Meeting, American Society of Regional Anesthesia and Pain Medicine. PBLD: Ultrasound of the lumbar spine; Workshop: Ultrasound assessment for gastric content and volume. Miami, FL, USA, November 19-21, 2015
89. Ultrasound-guided Regional Anesthesia and Vascular Access Workshop. Lecture: Ultrasound of the lumbar spine. Toronto, ON, Canada, December 12-14, 2015
90. 41st Annual Regional Anesthesia Meeting, American Society of Regional Anesthesia and Pain Medicine. Scientific Program Chair. Lecture: Epidural anesthesia for major abdominal surgery. New Orleans, LA, March 31-April 2nd, 2016
91. Ultrasound for Anesthesia, Peri-operative care, Intensive Care and Emergency Medicine. Sponsored by the Chilean Societies of Anesthesiology, Emergency Medicine and Critical Care Medicine. Lectures: Ultrasound guided blocks for shoulder surgery, Ultrasound-assisted neuraxial blocks, Ultrasound evaluation of gastric content. Santiago de Chile, Chile, April 21-23, 2016
92. University Health Network-Mount Sinai Hospital Combined Grand Rounds. Lecture: Point-of Care Gastric Ultrasound. A Useful Tool or the Latest Fad. Toronto, ON, May 6th, 2016
93. 13th International Symposium of Ultrasound for Regional Anesthesia and Perioperative Applications. Lectures: Adductor Canal Blocks and Ultrasound assessment of gastric content. Toronto, ON, June 11-14, 2016
94. Canadian Society of Anesthesiologists' Annual Meeting. Workshop: Peri-operative Point-of Care Ultrasound Workshop. Vancouver, BC, June 24th, 2016

G. TEACHING ACTIVITIES SUMMARY (see Teaching Dossier for details)

Undergraduate

2008-2011 Coordinator of Undergraduate Education
 Toronto Western Hospital, University Health Network
 Supervising 30 core-anesthesia and 5 elective medical students annually

Postgraduate

- 2004 – Present Toronto Western Hospital Resident Teaching
Quarterly Research Rounds
Quarterly Regional Anesthesia seminars
- 2010 – 2015 Curriculum Coordinator
University of Toronto PGY2 Regional Anesthesia Curriculum Coordinator
- Nov 2012 University of Toronto
PGY2 Lecture Series: Local Anesthetic Pharmacology

Allied Health Care Professionals

- 2006- 2007 Anesthesia Assistants Course
Michener Institute
University of Toronto
Course Instructor for Peripheral nerve Blockade

Fellow Research Supervision

- 2005-2006 Ahtsham Niazi.
Project: Ultrasound evaluation of paresthesia and nerve stimulation. (Primary Supervisor)
Presented at: Canadian Anesthesiologists' Society Annual Meeting, Vancouver, BC, Canada, 2005.
Publication: Perlas A, Niazi A, McCartney C, Chan, V, Xu D, Abbas S. The sensitivity of motor response to nerve stimulation and paresthesia for nerve localization as evaluated by ultrasound.
***Regional Anesthesia & Pain Medicine* 2006; 31(5): 445-450 (PA)**
- 2006-2007 Giovanni Lobo.
Project: Outcome of 275 Consecutive Ultrasound-guided Supraclavicular Blocks. (Primary Supervisor)
Presented at: American Society of Anesthesiologists' Annual Meeting, San Francisco, CA, 2007
Publication: Perlas A, Lobo G, Lo N, Brull R, Chan V, Karkhanis R. Ultrasound guided supraclavicular block. Outcome of 510 consecutive cases.
***Regional Anesthesia and Pain Medicine* 2009; 34:171-176 (PA)**
- 2007-2008 KiJinn Chin.
Project: The role of ultrasound-assisted spinal anesthesia in patients undergoing total joint arthroplasty. (Primary Supervisor)
Publication: Chin KJ, Perlas A, Singh M, Arzola C, Prasad A, Chan V, Brull R. The role of ultrasound-assisted spinal anesthesia in patients undergoing total joint arthroplasty – a descriptive study.
***Canadian Journal of Anesthesia* 2009; 56(9): 643-650 (SRA)**
- 2007-2008 Baskar Manickam.
Project: Feasibility and Efficacy of Ultrasound-guided block of the saphenous nerve at the adductor canal. (Primary Supervisor)
Presented at: European Society of Regional Anesthesia, Genoa, Italy, Sept 2008.
Publication: Manickam B, Perlas A, Duggan E, Brull R, Chan V, Ramlogan R. Feasibility and Efficacy of Ultrasound-guided Block of the Saphenous Nerve at the Adductor Canal.
***Regional Anesthesia and Pain Medicine* 2009; 34(6): 578-580 (SRA)**
- 2008-2009 Dorothea Morfey.

- Project: Learning Ultrasound-guided supraclavicular block:
Success rates and patterns of nerve sparing. (Primary Supervisor)
*Presented at: American Society of Regional Anesthesia and Pain Medicine Annual meeting. Phoenix, Arizona, May 2009 **Selected Best of the Meeting Abstract***
- 2010-2011 Javier Cubillos.
Project: Bedside ultrasound assessment of gastric volume. Validating a mathematical model using gastroscopic examination (Primary Supervisor)
Presented at: 2011 Canadian Anesthesiologists' Society Meeting, Toronto, ON, June 2011
Anesthesia and Analgesia 2013; 116(2): 357-363 (SRA)
- 2011-2012 Patrick Wong.
Project: Sciatic Nerve blockade in the popliteal fossa through a common extraneural sheath.
*Presented at: 2012 Annual Anesthesia Shield's Research Day, University of Toronto, Toronto, ON, May 4th, 2012. **Awarded: Best Poster Presentation***
Regional Anesthesia and Pain Medicine 2013; 38(3) 218-225(PA)
- 2011-2012 Ryan Endersby.
Project: Reliability of sonographic measurements of gastric antral cross-sectional area for gastric volume evaluation. (Primary Supervisor)
Presented at: 2012 Shield's Research Day, University of Toronto, Toronto, ON, May 4th, 2012
Anesthesiology 2014 July; 121 (1):46-51
- 2012-2014 Husni Alakkad
Project: Ultrasound assessment of aspiration risk in non-fasted elective surgical patients. (Primary Supervisor)
*Presented at: 2013 Annual Anesthesia Shield's Research Day, University of Toronto, Toronto, ON, May 10th, 2013. **Awarded: Best Study presented by a fellow***
Canadian Journal of Anesthesia 2015 November; 62(11):1188-1195
- 2013-2015 Hillen Cruz-Eng.
Project: Early discharge and ambulatory continuous brachial plexus analgesia is a cost-effective alternative to standard inpatient care following complex arthroscopic elbow surgery. A randomized, single-blinded study. (Primary Supervisor).
Awarded: Marion and Earl Orser Award for best clinical peer-reviewed publication published as a first author (in 2015) by a University of Toronto resident or fellow in the areas of Anesthesia and Sleep Medicine.
Anesthesiology 2015 December; 123 (6):1256-66
- 2013-2015 Richelle Kruisselbrink.
Project: Reliability of sonographic measurements of gastric antral cross-sectional area for gastric volume evaluation.
Anesthesiology 2014 July; 121 (1):46-51
- 2013-2015 David Burkett-St. Laurent.
Project: The nerves of the adductor canal and the innervation of the knee. An anatomic study. (Primary supervisor)
Regional Anesthesia and Pain Medicine 2016; May-June; 41 (3): 321-327
- 2013-2015 Angineh Garapetian.
Project: The accuracy of Ultrasound evaluation of a full stomach. A Bayesian analysis (Primary supervisor)
Received peer-review grant from PSI 2016

- 2014-2017 Meela Ghosh and Abhijit Biswas
Project: Adductor Canal Block. Analgesia and functional recovery after TKA. A double-blind, randomized Controlled Trial. Active patient recruitment (Primary Supervisor)
Presented at: *2015 Annual Anesthesia Shield's Research Day, University of Toronto, Toronto, ON, May 8th, 2015.*
Presented at: *40th Annual Meeting of the American Society of Regional Anesthesia and Pain Medicine. Las Vegas, NV, May 16th, 2015*
- 2015-2016 Kariem El-Boghdadly
Project: Gastric Ultrasound
Anesthesiology 2016 May DOI: 10.1097/ ALN0000000000001043 **(SRA)**
- 2015-2017 Anthony Short
Project: Is low dose intrathecal morphine safe in patients with obstructive sleep apnea undergoing total joint replacement
Protocol submitted to REB