

**CURRICULUM VITAE**

**VINCENT W.S. CHAN, MDCM, FRCPC**

Head, Regional Anesthesia & Pain Program  
Department of Anesthesia and Pain Management, University Health Network  
Professor of Anesthesia, University of Toronto

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Date of Preparation    January 2013

Citizenship          Canadian

**DEGREES & LICENSURE**

1994                  Diplomate, Added Qualifications in Pain Management, The  
American Board of Anesthesiology  
1992                  License, Medical Board of California  
1990                  Diplomate, The American Board of Anesthesiology  
1986                  Fellow of the Royal College of Physicians and Surgeons of Canada,  
F.R.C.P.(C), Anaesthesia  
1981                  License, The College of Physicians and Surgeons of Ontario  
1981                  National Board of Medical Examiners (U.S.A.)  
1980                  License of Medical Council of Canada  
1980                  M.D.C.M., McGill University, Montreal, Quebec  
1976                  B.Sc., Biochemistry (Honours), McGill University, Montreal

Vincent WS Chan

## **ACADEMIC APPOINTMENTS**

### Present Appointment

2004–present          Professor, Department of Anesthesia, University of Toronto

### Previous Appointments

1998–2004          Associate Professor, Department of Anesthesia, University of Toronto  
1995–1998          Assistant Professor, Department of Anesthesia, University of Toronto  
1992–1995          Assistant Professor in Residence, Department of Anesthesia, University of California, San Francisco  
1990–1992          Assistant Professor, Department of Anesthesia, University of Toronto  
1988–1989          Lecturer, Department of Anesthesia, University of Toronto

## **PROFESSIONAL TRAINING**

1987–1988          Clinical Fellow, Pain Management and Regional Anesthesia, Brigham and Women's Hospital, Harvard Medical School, Boston, MA  
1986–1987          Clinical Fellow, Department of Anesthesia, Toronto Western Hospital  
1983–1986          Anesthesia Resident, Faculty of Medicine, University of Toronto  
1981–1982          Resident, Internal Medicine, Toronto General Hospital  
1980–1981          Mixed Internship, St. Michael's Hospital

## **CLINICAL APPOINTMENTS**

1995–present          Active Staff, Department of Anesthesia, University Health Network  
1994–1995          Active Staff, Department of Anesthesia, San Francisco General Hospital, San Francisco, CA  
1992–1995          Active Staff, Department of Anesthesia, Moffitt Long Hospital, San Francisco, CA  
1988–1992          Active Staff, Department of Anesthesia, Toronto Western Hospital  
1982–1983          Associate Staff, Department of Family Medicine, Oakville Trafalgar Memorial Hospital, Oakville, Ontario

## **HONORS & AWARDS**

2012                  Honorary Member, Romanian Society of Anaesthesia and Intensive Care  
2011                  FRCA, Fellowship by Election, The Royal College of Anaesthetists, London UK  
2011                  Mary Burnell Lecturer, Combined Scientific Meeting, Australian and New Zealand College of Anaesthetists and Hong Kong College of Anaesthesiology

Vincent WS Chan

2009	AAPM/Pfizer Visiting Professorships in Pain Medicine Award
2009	Gold Medal Award, Canadian Anesthesiologists' Society
2009	President, American Society of Regional Anesthesia and Pain Medicine
2008	David Fear Award for Continuing Medical Education, Department of Anesthesia, University of Toronto
2003	Smiths Medical Canada Ltd Canadian Research Award in Pain Research and/or Regional Anesthesia, Canadian Anesthesiologists' Society
1998	Carl Koller Award, American Society of Regional Anesthesia
1996	Research Grant Award, Society of Ambulatory Anesthesia
1977-1978	McGill University, Montreal, Quebec, Canada
1973-1974	University Scholarship
1972-1975	J.W. McConnell Scholarship, McGill University

## **PROFESSIONAL AFFILIATIONS AND ACTIVITIES**

### **International and National Activities**

#### 1) Journal, Editorial Board and Grant Reviews

- Editor, Anesthesia & Analgesia (2006-present)
- Editor, Regional Anesthesia and Pain Medicine Journal (1999-2010)
- Editor, Canadian Journal of Anesthesia (2000-2006)
- Associate Editor, Regional Anesthesia and Pain Medicine Journal (1998–1999)(2011-present)
- Guest Editor, Techniques in Regional Anesthesia & Pain Management (1998)
- Ad–Hoc Grant Reviewer: Canadian Institute of Health Research, Physicians Services Incorporated (Ontario), Alberta Heritage Foundation For Medical Research (1993-present)
- Ad–Hoc Journal Reviewer: Anesthesiology, Anesthesia and Analgesia, Journal of Clinical Anesthesia, Clinical Journal of Pain, Chest (1991–present)

#### 2) American Society of Regional Anesthesia and Pain Medicine

- Immediate Past President (2011-2013)
- President (2009-2011)
- President Elect (2007-2009)
- Treasurer (2005-2007)
- Associate Treasurer (2003-2005)
- Board Member (1999-present)
- Chair, Annual Meeting Oversight Committee (2012-present)
- Chair, Management Committee (2002-2003)
- Chair, Master Class Section, Scientific Program Committee (1997–2003)
- Member, Finance Committee (2012-present)
- Member, Audit Committee (2012-present)

Vincent WS Chan

- Member, Scientific Program Committee (1997–2011)
- Moderator, Scientific Program (1998)
- Member, Communication Committee (2000-present)
- Workshop Instructor (1988–present)
- Member, One–Day Workshop Program Committee (1998–2000)

### 3) American Society of Anesthesiologists

- Chair, Education Track Subcommittee on Regional Anesthesia and Acute Pain (2009-2013)
- Vice-Chair, ASA Scientific Content Subcommittee on Regional Anesthesia and Acute Pain (2009)
- Member, Committee on Annual Meeting Oversight (2009-2013)
- Member, ASA Committee on Anesthesia Subspecialties (2007-2010)
- Member, Committee on Regional Anesthesia (2003-present)
- Member, Scientific Content Subcommittee on Regional Anesthesia (2007)

### 4) International Meetings

- Organizer, International Symposium of Ultrasound for Regional Anesthesia and Pain Medicine (2006-present)
- Member, Local Arrangements Committee, International Society of Regional Anesthesia, Montreal 2000
- Member, International Advisory Committee, Scientific Program, Acute Pain section, the 12th World Congress 2000
- Member, International Advisory Committee, Scientific Program, Regional Anesthesia section, the 12th World Congress 2000

### 5) International Research Organizations

- Member, Global Perioperative Research Organization, International Anesthesia Research Society (2001-2004)

### 6) Canadian Anesthesiologists' Society

- Vice Chair, Regional Anesthesia Section (1998–2003)
- Co–Chair, Poster Discussion Session (Regional Anesthesia/Pain), 53rd Annual Meeting (1996)
- Chronic Pain Subcommittee Member, 53rd Annual Meeting (1996)
- Regional Anesthesia Workshop Instructor, 53rd Annual Meeting (1996)
- Co–Chair, Poster Discussion Session (Regional Anesthesia/Pain), 53rd Annual Meeting of the Canadian Anesthetists' Society (1996)
- Chronic Pain Subcommittee Member, Canadian Anesthetists' Society Annual Meeting, Montreal, Quebec (1996)

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- Regional Anesthesia Workshop Instructor, Canadian Anesthetists' Society Annual Meeting, Montreal, Quebec (1996)

7) Ontario Medical Association

- Regional Anesthesia Workshop Instructor, Ontario Medical Association Annual Meeting, Windsor, Ontario (1996)

8) Academy of Medicine

- Co-Chair, Anesthesia Section, Toronto, Ontario (1996–1999)

### **University Professional Activities**

1) University of Toronto

- Chair, Research Committee, Department of Anesthesia (1997–2001)
- Co-Chair, Annual Regional Anesthesia and Pain Medicine Conference, Continuing Medical Education, University of Toronto (1996–present)
- Coordinator, Regional Anesthesia Section, U of T Resident Seminar Series (1997-present)
- Examiner, Anesthesia Resident Oral Examination (1996–present)
- Residents' Regional Anesthesia One Day Workshop (1998–present)
- Facilitator, Medical student teaching, Pain: Putting the Person at the Centre, Understanding the issues from molecules to society, University of Toronto Centre of the Study of Pain (2003-2004)

2) University Health Network

- Head, Regional Anesthesia and Pain Program, Department of Anesthesia (2001-present)
- Medical Director, Acute Pain Research Unit (2000-2010)
- Coordinator, Regional Anesthesia and Pain Fellowship Program (1996–2003)
- Director, Regional Anesthesia and Acute Pain Management (1995–2001)
- Coordinator, U of T Resident Regional Anesthesia Elective Program (1995-2003)
- Coordinator, Acute Pain Treatment Service, Toronto Western Hospital (1989–1992)

3) University of California, San Francisco

- Director (Anesthesia), Postanesthetic Care Unit, Clinical Practice Committee, San Francisco General Hospital (1994-1995)
- Coordinator, Epidural Analgesia Service, San Francisco General Hospital (1994–1995)
- Member, Neuroanesthesia Section, Department of Anesthesia (1992–1994)

### **University Committee Assignments**

#### 1) University of Toronto

- Member, University Promotion Committee, Department of Anaesthesia (1998, 1999, 2002, 2004, 2005, 2007-2012)
- Member, Department Council, Department of Anesthesia (1997-2001)

#### 2) University of California, San Francisco

- Member, Pain Quality Assurance Committee (1992-1994)
- Member, Academic Senate (1992–1995)

### **Hospital Committee Assignments**

#### 1) University Health Network

- Chair, Academic Committee, Department of Anesthesia, Toronto Western Hospital (2006-present)
- Chair, Anesthesia Academic Committee, Department of Anesthesia (1999–2001)
- Member, Corporate Pain Committee, University Health Network (2003-2011)
- Member, Pain Management Committee, The Toronto Hospital (1995–2000)
- Member, Search Committee for Anesthesiologist-in-Chief (2000)
- Member, Anesthesia Workload Committee, Department of Anesthesia (1999-2001)
- Member, Anesthesia Business Unit Committee, The Toronto Hospital (1996–2000)
- Member, Quality Assurance Committee, Department of Anesthesia (1997–2001)
- Member, Equipment Committee, Department of Anesthesia (1995–2000)
- Member, Executive Business Committee, Anesthesia Associates, University Health Network (1996–2003)
- Business Manager, Anesthesia Associates, Toronto Western Hospital, University Health Network (1996–2003)
- Member, Pharmacy and Therapeutic Committee, Toronto Western Hospital (1990-1992)

#### 2) San Francisco General Hospital

- Member, Epidural Analgesia Task Force (1994–1995)
- Member, Pain Management Committee (1994–1995)

## **TEACHING EXPERIENCE**

### **GRADUATE EDUCATION**

2002-2005                      Facilitator for medical student teaching, Pain: Putting the Person at the Centre, Understanding the issues from molecules to society, University of Toronto Centre of the Study of Pain

### **POSTGRADUATE EDUCATION**

1998–2005                      Residents' Regional Anesthesia One Day Workshop, University of Toronto, Toronto, Ontario  
1995-present                      Residency teaching program, Department of Anaesthesia, University of Toronto, Toronto, Ontario  
1992-1995                      Residency teaching program, Department of Anesthesia, University of California, San Francisco  
1988-1992                      Residency teaching program, Department of Anaesthesia, University of Toronto, Toronto, Ontario

## **PROFESSIONAL SOCIETY MEMBERSHIPS**

1987–present                      American Society of Anesthesiology  
1986–present                      The Royal College of Physicians and Surgeons of Canada  
1985–present                      Canadian Anaesthetists' Society  
1985–present                      American Society of Regional Anesthesia  
1985–present                      International Anesthesia Research Society  
1981–present                      Ontario Medical Association  
1981–present                      The College of Physicians and Surgeons of Ontario  
1995–1999                      Academy of Medicine, Anesthesia Section  
1992–1995                      California Society of Anesthesiologist

## **PUBLICATIONS**

### ***Journal Articles***

1. Lee SH, Kim JM, Chan V, Kim HJ, Kim HI. Ultrasound-Guided Cervical Periradicular Steroid Injection for Cervical Radicular Pain: Relevance of Spread Pattern and Degree of Penetration of Contrast Medium. *Pain Med* 2013;14:5-13
2. Riazi, S, Bril V, Perkins BA, Abbas S, Chan VWS, Ngo M, Lovblom LE, El-Beheiry H, Brull R. Can Ultrasound of the Tibial Nerve Detect Diabetic Peripheral Neuropathy?: A cross-sectional study. *Diabetes Care* 2012;35:2575-9
3. Wong SW, Niazi AU, Chin KJ, Chan VW. Real-time ultrasound-guided spinal anesthesia using the SonixGPS® needle tracking system: a case report. *Can J Anaesth* 2012;60:50-53

4. Endersby R, Albrecht E, Perlas A, Chan V. Semantics, misnomer, or uncertainty: where is the epineurium on ultrasound? *Reg Anesth Pain Med* 2012;37:360–1.
5. Niazi AU, Haldipur N, Prasad AG, Chan VW. Ultrasound-guided regional anesthesia performance in the early learning period: effect of simulation training. *Reg Anesth Pain Med* 2012;37:51-4.
6. Chin KJ, Chan V, Hebbard P, et al. Ultrasound-guided transversalis fascia plane block provides analgesia for anterior iliac crest bone graft harvesting. *Can J Anaesth* 2012;59:122-3.
7. Abdallah FW, Chan VW, Brull R. Transversus Abdominis Plane Block: A Systematic Review. *Reg Anesth Pain Med* 2012;37:193–209.
8. Abdallah FW, Adham AMBF, Chan VW, Kanazi GE. Analgesic Benefits of Pre-incisional Transversus Abdominis Plane Block for Abdominal Aortic Aneurysm Repair J *Cardiothorac Vasc Anesth*. 2012 Apr 11
9. Cubillos J, Tse C, Chan VW, Perlas A. Bedside ultrasound assessment of gastric content: an observational study. *Can J Anaesth* 2012;59:416-23.
10. Macfarlane AJ, Sites BD, Sites VR, et al. Musculoskeletal sonopathology and ultrasound-guided regional anesthesia. *HSS J* 2011;7:64-71.
11. Morfey DH, Chan VW, Brull R. Tripping over perineural catheters. *Anesth Analg* 2011;113:689-91.
12. Chin KJ, Wong NW, Macfarlane AJ, Chan VW. Ultrasound-guided versus anatomic landmark-guided ankle blocks: a 6-year retrospective review. *Reg Anesth Pain Med* 2011;36:611-8.
13. Niazi AU, Mocon A, Varadi RG, et al. Ondine's curse: anesthesia for laparoscopic implantation of a diaphragm pacing stimulation system. *Can J Anaesth* 2011;58:1034-8.
14. Chin KJ, Tse C, Chan V. Ultrasonographic identification of an anomalous femoral nerve: the fascia iliaca as a key landmark. *Anesthesiology* 2011;115:1104.
15. Abdallah FW, Hocking G, Chan VW. Porcine carcass phantom for ultrasound imaging and hands-on practice in needle insertion in the thoracic paravertebral space. *Can J Anaesth* 2011;58:875-7.
16. Prasad A, Yu E, Wong DT, et al. Comparison of sonography and computed tomography as imaging tools for assessment of airway structures. *J Ultrasound Med* 2011;30:965-72.
17. Singh M, Chin KJ, Chan V. Ultrasound-guided transversus abdominis plane (TAP) block: a useful adjunct in the management of postoperative respiratory failure. *J Clin Anesth* 2011;23:303-6.
18. Ganapathy S, Chan V. Regional analgesia and acute pain management: major leaps in small steps? Preface. *Anesthesiol Clin* 2011;29:xiii-xxiv.
19. Perlas A, Davis L, Khan M, et al. Gastric Sonography in the Fasted Surgical Patient: A Prospective Descriptive Study. *Anesth Analg* 2011;113:93-7.
20. Chin KJ, Perlas A, Chan V, et al. Ultrasound Imaging Facilitates Spinal Anesthesia in Adults with Difficult Surface Anatomic Landmarks. *Anesthesiology* 2011;115:94-101.
21. Lee SH, Lee SH, Chan VW, et al. Echotexture and Correlated Histologic Analysis of Peripheral Nerves Important in Regional Anesthesia. *Reg Anesth Pain Med* 2011;36:382-386.



22. Subramanyam R, Vaishnav V, Chan VW, et al. Lateral Versus Medial Needle Approach for Ultrasound-Guided Supraclavicular Block: A Randomized Controlled Trial. *Reg Anesth Pain Med* 2011;36:387-392.
23. Chin KJ, Tse C, Chan V, Tan JS, Lupu CM, Hayter M. Hand motion analysis using the imperial college surgical assessment device: validation of a novel and objective performance measure in ultrasound-guided peripheral nerve blockade. *Reg Anesth Pain Med* 2011;36:213-9.
24. Brull R, Chan VW. The corner pocket revisited. *Reg Anesth Pain Med* 2011;36:308.
25. Brull R, Macfarlane AJ, Parrington SJ, Koshkin A, Chan VWS. Is circumferential injection advantageous for ultrasound-guided popliteal sciatic nerve block?: A proof-of-concept study. *Reg Anesth Pain Med* 2011;36:266-70.
26. Brull R, Prasad GA, Gandhi R, Ramlogan R, Khan M, Chan VWS. Is a patella motor response necessary for continuous femoral nerve blockade performed in conjunction with ultrasound guidance? *Anesth Analg* 2011;112:982-6.
27. McGeary S, Chan V, Brull R. Recognizing dangerous intraneural injection: is it the musician or the instrument? *Reg Anesth Pain Med* 2011;36:99.
28. Chin KJ, Tse CC, Chan V. Practical considerations in preparing the pig carcass spine phantom. *Reg Anesth Pain Med* 2011;36:91-2.
29. Duggan E, Brull R, Chan VW. Reply to Dr. Orebaugh. *Reg Anesth Pain Med* 2010;35:481-2.
30. Bhatia A, Lai J, Chan VW, Brull R. Pneumothorax as a Complication of the Ultrasound-Guided Supraclavicular Approach for Brachial Plexus Block. *Anesth Analg* 2010;111:817-9
31. Sites BD, Chan VW, Neal JM, Weller R, Grau T, Koscielniak-Nielsen ZJ, Ivani G. The American Society of Regional Anesthesia and Pain Medicine and the European Society of Regional Anaesthesia and Pain Therapy joint committee recommendations for education and training in ultrasound-guided regional anesthesia. *Reg Anesth Pain Med* 2010;35:S74-S80.
32. Sites BD, Macfarlane AJ, Sites VR, Naraghi AM, Chan VWS, Antonakakis JG, Singh M, Brull R. Clinical sonopathology for the regional anesthesiologist: part 2: bone, viscera, subcutaneous tissue, and foreign bodies. *Reg Anesth Pain Med* 2010;35:281-9.
33. Sites BD, Macfarlane AJ, Sites VR, Naraghi AM, Chan VWS, Antonakakis JG, Singh M, Brull R. Clinical sonopathology for the regional anesthesiologist: part 1: vascular and neural. *Reg Anesth Pain Med* 2010;35:272-80.
34. Prasad A, Perlas A, Ramlogan R, Brull R, Chan V. Ultrasound-guided popliteal block distal to sciatic nerve bifurcation shortens onset time: a prospective randomized double-blind study. *Reg Anesth Pain Med* 2010;35:267-71.
35. Moayeri N, van Geffen GJ, Bruhn J, Chan VW, Groen GJ. Correlation among ultrasound, cross-sectional anatomy, and histology of the sciatic nerve: a review. *Reg Anesth Pain Med* 2010;35:442-9.
36. Parrington SJ, O'Donnell D, Chan VWS, Brown-Shreves D, Subramanyam R, Qu M, Brull R. Dexamethasone added to mepivacaine prolongs the duration of analgesia after supraclavicular brachial plexus blockade. *Reg Anesth Pain Med* 2010;35:422-6.

37. O'Donnell D, Manickam B, Perlas A, Karkhanis R, Chan VWS, Syed K, Brull R. Spinal mepivacaine with fentanyl for outpatient knee arthroscopy surgery: a randomized controlled trial. *Can J Anaesth* 2010;57:32-8.
38. Tan JS, Chin KJ, Chan VWS. Developing a Training Program for Peripheral Nerve Blockade: The "Nuts and Bolts" *International Anesthesiology Clinics* 2010;48:1-11
39. Niazi AU, Ramlogan R, Prasad A, Chan VW. A new simulation model for ultrasound-aided regional anesthesia. *Reg Anesth Pain Med* 2010;35:320-1.
40. Sites BD, Brull R, Chan VWS, Spence BC, Gallagher J, Beach ML, sites VR, Abbas S, Harman GS. Artifacts and pitfall errors associated with ultrasound-guided regional anesthesia: Part II: A pictorial approach to understanding and avoidance. *Reg Anesth Pain Med* 2010;35:S81-S92.
41. Neal JM, Brull R, Chan VW, Grant SA, Horn JL, Liu SS, McCartney CJL, Narouze SN, Perlas A, Salinas FV, Sites BD, Tsui BC. The ASRA evidence-based medicine assessment of ultrasound-guided regional anesthesia and pain medicine: Executive summary. *Reg Anesth Pain Med* 2010;35:S1-S9.
42. Ramlogan R, Manickam B, Chan VW, Liang L, Adhikary SD, Liguori GA, Hargett MJ, Brull R. Challenges and training tools associated with the practice of ultrasound-guided regional anesthesia: a survey of the American society of regional anesthesia and pain medicine. *Reg Anesth Pain Med* 2010;35:224-6.
43. Lupu CM, Kiehl TR, Chan VW, El-Beheiry H, Madden M, Brull R. Nerve expansion seen on ultrasound predicts histologic but not functional nerve injury after intraneural injection in pigs. *Reg Anesth Pain Med* 2010;35:132-9.
44. Chin KJ, Chan V. Ultrasonography as a preoperative assessment tool: predicting the feasibility of central neuraxial blockade. *Anesth Analg* 2010;110:252-3.
45. Chin KJ, Chan VW, Ramlogan R, Perlas A. Real-time ultrasound-guided spinal anesthesia in patients with a challenging spinal anatomy: two case reports. *Acta Anaesthesiol Scand* 2010;54:252-5.
46. Singh M, Chin KJ, Chan VWS, Wong DT, Prasad GA, Yu E. Use of sonography for airway assessment: an observational study. *J Ultrasound Med* 2010;29:79-85.
47. Chin KJ, Chan V. Evaluating outcomes in ultrasound-guided regional anesthesia. *Can J Anaesth* 2010;57:1-8.
48. Myers J, Chan V, Jarvis V, Walker-Dilks C. Intra-spinal techniques for pain management in cancer patients: a systematic review. *Support Care Cancer* 2010;18:137-49.
49. Perlas A, Chan V W, Lupu C M, Mitsakakis N, Hanbidge A. Ultrasound assessment of gastric content and volume. *Anesthesiology* 2009;111:82-89.
50. Chin K J, Perlas A, Chan V, Brull R. Continuous infraclavicular plexus blockade. *Anesth Analg* 2009;109:1347-1348.
51. van Geffen GJ, Moayeri N, Bruhn J, Scheffer GJ, Chan VW, Groen GJ. Correlation between ultrasound imaging, cross-sectional anatomy, and histology of the brachial plexus: a review. *Reg Anesth Pain Med* 2009;34:490-7.
52. Manickam B, Perlas A, Duggan E, Brull R, Chan VWS, Ramlogan R. Feasibility and efficacy of ultrasound-guided block of the saphenous nerve in the adductor canal. *Reg Anesth Pain Med* 2009;34:578-80.

53. Sites BD, Neal JM, Chan V. Ultrasound in regional anesthesia: where should the "focus" be set? *Reg Anesth Pain Med* 2009;34:531-3.
54. Brull R, Lupu M, Perlas A, Chan V W, McCartney C J. Compared with dual nerve stimulation, ultrasound guidance shortens the time for infraclavicular block performance. *Can J Anaesth* 2009; 56:812-8.
55. Prasad A, Singh M, Chan V W. Ultrasound imaging of the airway. *Can J Anaesth* 2009;56:868-9.
56. Macfarlane A J, Prasad G A, Chan V W, Brull R. Does regional anaesthesia improve outcome after total hip arthroplasty? A systematic review. *Br J Anaesth* 2009;103:335-345
57. Duggan E, El Beheiry H, Perlas A, Lupu M, Nuica A, Chan V W, Brull R. Minimum effective volume of local anesthetic for ultrasound-guided supraclavicular brachial plexus block. *Reg Anesth Pain Med* 2009;34:215-218.
58. Niazi A U, Prasad A, Ramlogan R, Chan V W. Methods to ease placement of stimulating catheters during in-plane ultrasound-guided femoral nerve block. *Reg Anesth Pain Med* 2009;34:380-381
59. Chin K J, Perlas A, Singh M, Arzola C, Prasad A, Chan V, Brull R. An ultrasound-assisted approach facilitates spinal anesthesia for total joint arthroplasty. *Can J Anaesth* 2009;56:643-650.
60. Chin K J, Macfarlane A J, Chan V, Brull R. The use of ultrasound to facilitate spinal anesthesia in a patient with previous lumbar laminectomy and fusion: A case report. *J Clin Ultrasound* 2009;37:482-485.
61. Macfarlane A J, Arun P G, Chan V W, Brull R. Does Regional Anesthesia Improve Outcome After Total Knee Arthroplasty? *Clin Orthop Relat Res* 2009;467:2379-2402.
62. Suresh S, Chan V W. Ultrasound guided transversus abdominis plane block in infants, children and adolescents: a simple procedural guidance for their performance. *Paediatr Anaesth* 2009;19:296-299.
63. Perlas A, Lobo G, Lo N, Brull R, Chan V W, Karkhanis R. Ultrasound-guided supraclavicular block: outcome of 510 consecutive cases. *Reg Anesth Pain Med* 2009;34:171-176.
64. Sites B D, Chan V W, Neal J M, Weller R, Grau T, Koscielniak-Nielsen Z J, Ivani G. The American Society of Regional Anesthesia and Pain Medicine and the European Society Of Regional Anaesthesia and Pain Therapy Joint Committee recommendations for education and training in ultrasound-guided regional anesthesia. *Reg Anesth Pain Med* 2009;34: 40-46.
65. Perlas A, Chan VW, Brull R. Several "correct" approaches to nerve stimulator-guided popliteal fossa block. *Reg Anesth Pain Med* 2009;34:624-5.
66. Arun P G, Niazi A, Chan V. Ultrasound averts inadvertent injury during internal jugular vein cannulation. *Can J Anaesth* 2009;56: 85-86.
67. Manickam B P, Perlas A, Chan V W, Brull R. The role of a preprocedure systematic sonographic survey in ultrasound-guided regional anesthesia. *Reg Anesth Pain Med* 2008;33:566-570.
68. Chin K J, Perlas A, Chan V W, Brull R. Needle visualization in ultrasound-guided regional anesthesia: challenges and solutions. *Reg Anesth Pain Med* 2008;33:532-544.

69. Chin K J, Chan V W, van Geffen G J. Ultrasound-guided infraclavicular block: the in-plane versus out-of-plane approach. *Paediatr Anaesth* 2008;18:1279-1280.
70. Brull R, Perlas A, Cheng P H, Chan V W. Minimizing the risk of intravascular injection during ultrasound-guided peripheral nerve blockade. *Anesthesiology* 2008;109:1142.
71. Chin K J, Perlas A, Brull R, Chan V W. Ultrasound guidance is advantageous in popliteal nerve blockade. *Anesth Analg* 2008;107:2094-2095.
72. Macfarlane A J, Perlas A, Chan V, Brull R. Eight ball, corner pocket ultrasound-guided supraclavicular block: avoiding a scratch. *Reg Anesth Pain Med* 2008;33:502-503.
73. Chin KJ, Chan V. Ultrasound-guided peripheral nerve blockade. *Curr Opin Anaesthesiol* 2008;21:624-631.
74. Chin KJ, Niazi A, Chan V. Anomalous brachial plexus anatomy in the supraclavicular region detected by ultrasound. *Anesth Analg* 2008;107:729-731.
75. 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. *Reg Anesth Pain Med* 2008;33:395-403.
76. 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. *Can J Anaesth* 2008;55:408-413.
77. Perlas A, Brull R, Chan VW, McCartney CJ, Nuica A, Abbas S. Ultrasound guidance improves the success of sciatic nerve block at the popliteal fossa. *Reg Anesth Pain Med* 2008;33:259-265.
78. Rofaeel A, Peng P, Louis I, Chan V. Feasibility of real-time ultrasound for pudendal nerve block in patients with chronic perineal pain. *Reg Anesth Pain Med* 2008;33:139-145.
79. Tumber P S, Bhatia A, Chan V W. Ultrasound-guided lateral femoral cutaneous nerve block for meralgia paresthetica. *Anesth Analg* 2008;106:1021-1022.
80. Gagliese L, Gauthier LR, MacPherson A, Jovellanos M, Chan VWS. Correlates of Postoperative Pain and Intravenous Patient-Controlled Analgesia Use in Younger and Older Surgical Patients. *Pain Medicine* 2008;9:299-314.
81. Soares LG, Brull R, Chan VW. Teaching an old block a new trick: ultrasound-guided posterior tibial nerve block. *Acta Anaesthesiol Scand* 2008;52:446-447
82. Soares LG, Chan VW. The Rationale for a Multimodal Approach in the Management of Breakthrough Cancer Pain: A Review. *Am J Hosp Palliat Care* 2007;24: 430-439
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### ***Book Chapters***

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### ***Abstracts and Presentations***

1. Parrington SJ, Brull R, Perlas A, Macfarlane A, Chan V. Circumferential Local Anesthetic Spread Speeds the Onset of Ultrasound Guided Sciatic Nerve Block at the Popliteal Fossa. Poster Presentation (A-30) Poster Presentation (A-86) American Society of Regional Anesthesia and Pain Medicine Annual Spring Meeting, April, 2010, Toronto, Canada (Resident Travel Award)
2. Brown-Shreves D, Chin K, Vaishnav V, Perlas A, Chan V. Pre-Procedural Ultrasound Imaging Improves Ease of Performance of Spinal Anesthesia in Patients with Difficult Spinal Anatomy. Poster Presentation (S-473) Annual Meeting of the International Anesthesia Research Society, March 2010, Honolulu, Hawaii
3. Parrington SJ, Brull R, Perlas A, Macfarlane A, Chan V. Circumferential Local Anesthetic Spread Speeds the Onset of Ultrasound Guided Sciatic Nerve Block at the Popliteal Fossa. Poster Presentation (S-483) Annual Meeting of the International Anesthesia Research Society, March 2010, Honolulu, Hawaii
4. O' Donnell DR, Manickam B, Karkhanis R, Chan V, Brull R. Spinal Mepivacaine with Fentanyl for Outpatient Knee Arthroscopy Surgery. Poster Presentation (A-86) American Society of Regional Anesthesia and Pain Medicine Annual Spring Meeting, April, 2009, Phoenix, AZ
5. O' Donnell DR, Prasad A, Perlas A, Chan V. Ultrasound Assisted Spinal Anesthesia in Morbidly Obese Patients: A case series. Poster Presentation (A-87) American Society of Regional Anesthesia and Pain Medicine Annual Spring Meeting, April, 2009, Phoenix, AZ
6. Choi S, Rampersaud YR, Chan VWS, Persaud O, Brull RT. Post-operative Epidural Analgesia after Minimally Invasive Surgery Lumbar Decompression and Fusion. A Randomized, Double-Blind, Placebo Controlled Study. Poster Presentation (A-25) American Society of Regional Anesthesia and Pain Medicine Annual Spring Meeting, April, 2009, Phoenix, AZ
7. Morfey D, Ramlogan R, Perlas A, Chan VW, Brull R. Ultrasound-guided Supraclavicular Block: Success Rates and Patterns of Nerve Sparing. Poster Presentation (A-30) American Society of Regional Anesthesia and Pain Medicine Annual Spring Meeting, April, 2009, Phoenix, AZ (Best of Abstract)
8. Kamin S, Koren G, Rodin G, Chan V, Easson A, Li M, Gagliese L. Pain Expectations and Pain Following Breast Cancer Surgery, Canadian Pain Society conference in May, 2009
9. Mandeep S, Lupu M, Liang L, Wong TD, Chan WSV. Ultrasonography for Airway Assessment - an Observational Study. ASA Annual Meeting, October 2008, Orlando, FL

10. Brull R, Chan V, Ganapathy S. A Randomized Double-Blind Placebo-Controlled Trial of AeroLEF™ (Aerosolized Free and Liposome-Encapsulated Fentanyl) for Post Operative Pain following Orthopedic Surgery. Poster Presentation (A-16) American Society of Regional Anesthesia and Pain Medicine Annual Fall Meeting, November 2007, Boca Raton FL
11. Perlas A, Karkhanis RS, Lo N, Lobo G, Chan VWS. Outcome After 275 Consecutive Ultrasound Guided Supraclavicular Blocks. Poster presentation (A-380) at the 2007 Annual Meeting of the American Society of Anesthesiologists, October 2007, San Francisco, California
12. McCartney C, Duggan E, Chan V, Nuica A. A randomized, double-blind controlled study comparing dual endpoint nerve stimulation with ultrasound-guided infraclavicular block for hand surgery Oral Presentation (A1, Best of Meeting). 32<sup>nd</sup> American Society of Regional Anesthesia and Pain Medicine Annual Spring Meeting, April 2007, Vancouver BC
13. Lo N, Brull R, Chan V, Sacco R. The Evolution of Ultrasound-Guided Axillary Brachial Plexus Blockade at Toronto Western Hospital. Poster Presentation (A69). 32<sup>nd</sup> American Society of Regional Anesthesia and Pain Medicine Annual Spring Meeting, April 2007, Vancouver BC
14. Katz J, Schmid R, O'Leary G, Chan V, Halket E, Dzyuba M. Postoperative pain and morphine are reduced by perioperative multi-modal analgesia. Poster Presentation (26338). Canadian Anesthesiologists' Society Meeting, June 2006, Toronto, Canada
15. Friedman Z, Katznelson T, Devito I, Siddiqui N, Chan V. A video assisted assessment system for residents' skill in epidural anesthesia. Poster Presentation (23240). Canadian Anesthesiologists' Society Meeting, June 2006, Toronto, Canada
16. McCartney C, Xu D, Constantinescu C, Chan V. Finding Optimal Position for Ultrasound-Guided Nerve Blocks in the Forearm. Poster Presentation (A9) at the 31<sup>st</sup> American Society of Regional Anesthesia and Pain Medicine Annual Spring Meeting, April 2006, Rancho Mirage CA
17. McCartney C, Gibbs A, Abbas S, Chan V. Patients' Knowledge and Concerns Regarding Regional Anesthesia. Poster Presentation (A10) at the 31<sup>st</sup> American Society of Regional Anesthesia and Pain Medicine Annual Spring Meeting, April 2006, Rancho Mirage CA
18. Tamir D, Perlas A, McCartney C, Chan V. A Randomized-Controlled, Double-Blind Trial to Determine the Impact of Ultrasound Guidance on the Success Rate of Popliteal Fossa Blocks. Poster Presentation (A58) at the 31<sup>st</sup> American Society of Regional Anesthesia and Pain Medicine Annual Spring Meeting, April 2006, Rancho Mirage CA
19. Perlas A, Chan V, McCartney C, Lau J. Does Ultrasound Guidance Improve the Success of Sciatic Nerve Block at the Popliteal Fossa. Poster Presentation (A58) at the 31<sup>st</sup> American Society of Regional Anesthesia and Pain Medicine Annual Spring Meeting, April 2006, Rancho Mirage CA
20. Brull R, Chan V, Shannon P. Intra-neural Electrical Stimulation and Ultrasound Detection of Intra-neural Injection. Best of Abstract Presentation (A1) at the 31<sup>st</sup> American Society of Regional Anesthesia and Pain Medicine Annual Spring Meeting, April 2006, Rancho Mirage CA
21. Awad IT, Chan VW, Perlas A, McCartney C, Abbas S, Xu D, Nova H. Ultrasound Versus Nerve Stimulator Guided Axillary Brachial Plexus Block. Poster Presentation (A48) at the

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- 61<sup>st</sup> Annual Meeting of the Canadian Anesthesiologists' Society Meeting, June 2005, Vancouver, Canada
22. Nova HA, Chan VWS, Abbas S, McCartney CJL, Perlas A, Xu D. Ultrasound Examination and Localization of the Sciatic Nerve. Poster Presentation (A47) at the 61<sup>st</sup> Annual Meeting of the Canadian Anesthesiologists' Society Meeting, June 2005, Vancouver, Canada
  23. Niazi A, Perlas A, Chan VWS, McCartney C, Xu D. Ultrasound Evaluation of Paresthesia and Nerve Stimulation. Poster Presentation (A44) at the 61<sup>st</sup> Annual Meeting of the Canadian Anesthesiologists' Society Meeting, June 2005, Vancouver, Canada
  24. Li C, McCartney C, Perlas A, Chan V. Ultrasound Evaluation of Needle Tip Position During Lateral Paravascular Supraclavicular Brachial Plexus Block. Poster Presentation (A50) at the 2005 American Society of Regional Anesthesia and Pain Medicine 2005 Annual Spring Meeting, April 2005, Toronto, Canada
  25. Brull R, McCartney C, Abbas S, Chan V. The Effect of Regional vs. General Anesthesia on Paresthesiae One Year after Ambulatory Hand Surgery. Poster Presentation (A18) at the 2005 American Society of Regional Anesthesia and Pain Medicine 2005 Annual Spring Meeting, April 2005, Toronto, Canada
  26. Choi M, Perlas A, Chan V, Naik V. Evaluation of Interscalene Block Performance: Establishing Construct Validity. Poster Presentation (A38) at the 2005 American Society of Regional Anesthesia and Pain Medicine 2005 Annual Spring Meeting, April 2005, Toronto, Canada
  27. Gagliese L, Chan V. A comparison of pain intensity scales in younger and older surgical patients. 11th World Congress on Pain, August, 2005, Sydney, Australia
  28. Chan V, Valle-Leutri F, Clark AJ, Rossiter-Rooney M. Self-titrated aerosolized liposome-encapsulated fentanyl results in rapid onset and sustained analgesia following ACL knee surgery. Poster presentation (A-77) at the 2004 Annual Meeting of the American Society of Anesthesiologists, October 2004, Las Vegas, Nevada
  29. Brull R, McCartney CJL, Abbas S, Nova H, Rawson R, Chan VWS, Katz J, Graham B, Anastakis D, von Schroeder H. Regional Anesthesia vs. General Anesthesia for Ambulatory Hand Surgery. Poster Presentation (A2) at the 60<sup>th</sup> Annual Meeting of the Canadian Anesthesiologists' Society Meeting, June 2004, Quebec City, Canada
  30. Porter J, McCartney C, Chan V. Nerve Stimulator or Ultrasound for Coracoid Infraclavicular Brachial Plexus Block: Influence of needle position on nerve stimulation and spread of injectate. American Society of Regional Anesthesia & Pain Medicine - 29th Spring Meeting 2004, Poster Presentation (Poster Number A16)
  31. Perlas A, Chan VWS, McCartney. Ultrasound assessment of paresthesia and electrical stimulation for nerve localization: A sensitivity study. American Society of Regional Anesthesia & Pain Medicine - 29th Spring Meeting 2004, Poster Presentation (Poster Number A33)
  32. Perlas A, Chan VWS, McCartney. Ultrasound Localization of the Sciatic Nerve. A preliminary study. American Society of Regional Anesthesia & Pain Medicine - 29th Spring Meeting 2004 (A1) One of 4 Best of Meeting Abstracts
  33. Chan VWS, Watt-Watson J, Chung F, McGillion M. Patients' pain management following discharge after day surgery. *Can J Anesth* 2003;50: A47

34. Oldman M, McCartney C, Perlas A, Chan V, Gadsden J, Rawson R, Leung A. A survey of surgeons' attitudes to regional anesthesia. Poster presentation (A12) at the 28<sup>th</sup> American Society of Regional Anesthesia and Pain Medicine Annual Spring Meeting, April 2003, San Diego, California
35. Brull RT, von Schroeder H, Anastakis D, Graham B, Katz J, Chan VWS, Abbas SN, Rawson R, McCartney CJ. Regional anesthesia versus general anesthesia for ambulatory hand surgery. Oral presentation (A1) at the 28<sup>th</sup> American Society of Regional Anesthesia and Pain Medicine Annual Spring Meeting, April 2003, San Diego, California
36. McCartney CJ, Chan VWS, Sanandaji K, Rawson R, Katz J, Choyce A. Small dose ketamine 0.5 mg/kg produces a peripheral preventive analgesic effect when added to interscalene block for major shoulder surgery. Oral presentation (A4) at the 28<sup>th</sup> American Society of Regional Anesthesia and Pain Medicine Annual Spring Meeting, April 2003, San Diego, California
37. Watt-Watson J, Chung F, Chan V, McGillion M. Patients' pain management k following discharge after day surgery. *Pain Research & Management* 2003; 8 Supplement B, P-114
38. Brull R, McCartney CJL, Rawson R, Abbas S, Chan VWS. The effect of anesthetic technique on paresthesiae after hand surgery. *Can J Anesth* 2003;50: A42
39. Chan V, Clark J, Davis J, Wolf RS, Forsythe A, Manning D, Jayawardene S. A comparison of Cox 189, naproxen and placebo for relief of post-orthopedic surgery pain. 10<sup>th</sup> World Congress on Pain August 2002, San Diego, CA
40. Sawyer RJ, Brill S, McCartney C, Chan V, Katz J. An evaluation of intra-articular ketamine analgesia following knee arthroscopy. World Congress on Regional Anaesthesia & Pain Therapy, May 29th -June 1st 2002, Barcelona, Spain
41. Perlas A, Chan VWS. Ultrasound Guided Localization of the Brachial Plexus. A Volunteer Study. Poster presentation (A-892) at the 2002 Annual Meeting of the American Society of Anesthesiologists, October 2002, Orlando, Florida
42. Perlas A, Peng P, Chan VWS, Barrera-Plaza M, Sanandaji K. A forearm rescue cuff improves tourniquet pain tolerance and prolongs tourniquet time for intravenous regional anesthesia. Poster presentation (A-891) at the 2002 Annual Meeting of the American Society of Anesthesiologists, October 2002, Orlando, Florida
43. AJ Prabhu, Song D, VW Chan, Jenkins KL, Wong J, Yogendran S, Chung F. Low dose spinal anaesthesia: how should we test for the ability to walk? *Reg Anesth Pain Med* 2001;26:A29
44. McCartney CJ, Brill S, Chan VW, Sittampallam V, Li M, Iagounova A. A randomised double-blind study of the analgesic effect of neostigmine added to intravenous regional anesthesia. *Reg Anesth Pain Med* 2001;26:A128
45. McCartney CJL, Murphy DB, Vucemilo I, Chan VWS. Intravenous ropivacaine test dose— a volunteer study. *Reg Anesth Pain Med* 2000;25:A7
46. McCartney CJL, Bhardwaj A, Middleton W, Peng P, Kaszas Z, Chan VWS. Patient controlled epidural analgesia- comparison between high concentration low volume and low concentration high volume techniques. Poster presentation at International Symposium on Regional Anesthesia & Pain Medicine 2000, Quebec, Canada
47. Poate E, Regan J, Middleton W, Peng P, Chan V. Analgesic effects of low dose ropivacaine for interscalene brachial plexus block for outpatient shoulder surgery. A dose response study. Poster discussion presentation at International Symposium on Regional Anesthesia & Pain Medicine 2000, Quebec, Canada

48. Coleman M, Peng P, Regan J, Hendler A, Chan V. Quantitative comparison of tourniquet leakage between forearm and conventional (upper arm) intravenous regional anesthesia. *Can J Anaesth* 1999; 46:A28–B
49. Murphy DB, El-Beheiry H, Foss J, Chan V. Pharmacokinetic of epidural administered methylnaltrexone a novel peripheral opioid antagonist. *Anesthesiology* 1999; 91:A349
50. Chan VWS, Nazarnia S, Kaszas Z, Perlas A. The Impact of Epidural Saline Administration on the Resolution of Epidural Anesthesia. *Reg Anesth and Pain Med* 1998; 23:S73
51. Chan VWS, Chinyanga H, Peng P, Kaszas Z. Minimum Effective Anesthetic Concentration of Hyperbaric Bupivacaine for Spinal Anesthesia. *Reg Anesth and Pain Med* 1998; 23:S9
52. Vaghadia H, Chan V, Ganapathy S, Lui A, McKenna J, Zimmer K. Ropivacaine 7.5 mg/mL versus bupivacaine 5 mg/mL for brachial plexus block: a multicentre trial. *Can J Anaesth* 1998; 45:A37–A
53. Weisbrod MJ, Chan VWS, Kaszas Z, Dragomir C. Intravenous regional anaesthesia with ropivacaine. *Can J Anaesth* 1998; 45:A14–A
54. Peng P, Claxton AR, Chung F, Chan V, Miniaci A, Krishnathas A. Femoral nerve block improves postoperative pain control in patients undergoing anterior cruciate ligament repair. *Anesthesiology* 1998;89:A1122
55. Nazarnia S, Chan VWS, Clune L, Peng P, Al-Kaisy A, Perlas A. A Comparison of Cost Effectiveness of Regional Anesthesia versus General Anesthesia For Outpatient Hand Surgery. *Reg Anesth* 22:S20, 1997
56. Peng PWH, Chan VWS. Determination of minimum effective anesthetic concentration (MEAC) of hyperbaric lidocaine for spinal anesthesia. *Reg Anesth* 22:S121, 1997
57. Chan VWS, Nazarnia S, Dombek T. The Impact of Epidural Saline Administration on the Resolution of Epidural Anesthesia– A Dose Response Study. *Society of Ambulatory Anesthesia 13th Annual Meeting, May 1997*
58. Al-Kaisy AA, McGuire G, Chan V, Miniaci A, Bruin G, Peng P, Perlas A. Effective Interscalene Block Using Low Dose Bupivacaine Shortens Discharge Time Following Outpatient Shoulder Arthroscopy. *Society of Ambulatory Anesthesia 13th Annual Meeting, May 1997*
59. Al-Kaisy AA, Chan V, Peng P, Perlas A, Miniaci A. Postoperative analgesic effect of low dose bupivacaine for interscalene brachial plexus block for shoulder surgery, a dose finding study. *Can J Anaesth* 44: A60–A, 1997
60. Peng P, Chan V. Dose-dependency of minimum effective anaesthetic concentration (MEAC) of hyperbaric lidocaine for spinal anaesthesia. *Can J Anaesth* 44: A69–A, 1997
61. Peng P, Chung F, Claxton AR, Chan V, Krishnathas A. Reducing pain after arthroscopic anterior cruciate ligament repair– comparison of ketorolac vs femoral nerve block. *Can J Anaesth* 44: A69–B, 1997
62. Al-Kaisy AA, McGuire G, Chan V, Miniaci A, Bruin G, Peng P, Perlas A. Effective Interscalene Block Using Low Dose Bupivacaine Shortens Discharge Time Following Outpatient Shoulder Arthroscopy. *PGA Annual Meeting, December 1996*
63. Chan VWS, Infosino A, Olney R: Accurate Electrolocalization of the Brachial Plexus for Interscalene Block Using Electromyographic (EMG) Technology. *Reg Anesth* 20:S15, 1995
64. Sandler A, Finucane B, McKenna J, Reid D, Milner A, Friedlander M, Muzyka D, O'Callaghan-Enright S, Chan V, Nierenberg H: A Pharmacokinetic Comparison Between



- Ropivacaine 0.5%, 0.75%, 1.0% and Bupivacaine 0.5% in Epidural Anaesthesia: A Double Blind Multi Centre Study in Women Undergoing Hysterectomy. *Can J Anaesth* 42:A43, 1995
65. Chan VWS, Garcia J, Drasner K: A Comparative Study of Hyperbaric Spinal Lidocaine 0.5% Versus 5% for Urologic Surgery. *Anesthesiology* 83:A777, 1995
  66. Chan VWS, Chung F, McQuestion M, Gomez M, Cruise C, Evans D, Shumka D: Does Patient Controlled Analgesia (PCA) Therapy Quicken Recovery Following Spinal Surgery? *Anesth Analg* 78: S53, 1994
  67. Finucane BT, Sandler AN, McKenna J, Milner A, Friedlander M, Reid D, Muzyka D, Chan V, O'Callaghan-Enright S: A Double-blind Comparison of Clinical Effects of Ropivacaine 0.5%, 0.75%, 1.0%, and Bupivacaine 0.5%, Injected Epidurally in Patients Undergoing Hysterectomy. *Reg Anesth* 19: S11, 1994
  68. Chan VWS, Chung F, Gomez M, Baylon GJ: Anesthetic Effects of Single Bolus Versus Incremental Titration of Hyperbaric Spinal Lidocaine Through Microcatheter. *Anesth Analg* 76:S42, 1993
  69. Chung FF, Chan VWS, Baylon GJ: Propofol Infusion Induction in the Elderly-Haemodynamic Profile. *Can J Anaesth* 40:A38, 1993
  70. Sakura S, Chan V, Ciriales R, Drasner K: Intrathecal Infusion of Lidocaine in the Rat Results in Dose-Dependent, but Not Concentration-Dependent, Sacral Root Injury. *Anesthesiology* 79:A851, 1993
  71. Sakura S, Chan V, Ciriales R, Drasner K: Do Local Anesthetic Solutions Currently Used For Spinal Anesthesia Differ in Their Neurotoxic Potential? *Anesthesiology* 79:A880, 1993
  72. Chan VWS, Chung F, McQuestion M, Gomez M, Cruise C, Evans D, Shumka D: Patient Controlled Analgesia (PCA) Therapy: Cost Saving in Nursing Time and Early Hospital Discharge? *Can J Anaesth* 39:A73, 1992
  73. Yogendran S, McGuire G, Gomez M, Chan V, Chung F: Postoperative Hypoxemia In Ambulatory Surgery. *Can J Anaesth* 39:A134, 1992
  74. Chan VWS, Mati N, Seyone C, Evans D, Chung F: Continuous Spinal Anaesthesia: Effects Of Titrated Lidocaine Boluses. *Can J Anaesth* 38:A8, 1991
  75. Chan VWS, Chung F, Mati N, Evans D, Cruise C, Shumka D, Seyone C: Patient-Controlled Analgesia (PCA): Use Patterns In Abdominal And Thoracic Surgery. *Can J Anaesth* 38:A115, 1991
  76. Chung F, Ong D, Seyone C, Mati N, Powell P, Chan V: A New Postanesthetic Discharge Scoring System For Ambulatory Surgery. *Anesth Analg* 72:S42, 1991
  77. Chung F, Seyone C, Mati N, Ong D, Powell P, Chan V: Validation Of An Objective Ambulatory Surgery Discharge Scoring System. *Can J Anaesth* 38:A59, 1991
  78. Chan VWS, Evans D, Chung F, Shumka D, Patel P, Seyone C. Economics and Use Patterns of Patient-Controlled Analgesia (PCA): A Canadian Experience, Scientific Exhibit., Canadian Anaesthetists' Society Annual Meeting 1990, Vancouver, Canada
  79. Chan VWS, Chung F, Cruise C, Johnston N, Evans D, Shumka D. Initiation and organization of a patient-controlled analgesia (PCA) service: a practical guide, Information Booklet, Canadian Anaesthetists' Society Annual Meeting 1990, Vancouver, Canada
  80. Chan VWS, Chung F, Cheng DCH, Seyone C, Chung A, Kirby TJ: Analgesic Effect of Continuous Intercostal Nerve Block Following Thoracotomy. *Anesth Analg* 68:S50, 1989

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81. Chan VWS, Ferrante FM, Arthur GR: Analgesic Effect of Intraleural Bupivacaine Following Thoracotomy. *Can J Anaesth* 36:S154, 1989
82. Chan VWS, GR Arthur and FM Ferrant. Intraleural Bupivacaine Administration For Pain Relief Following Thoracotomy. International Symposium on Regional Anesthesia 1988, Williamsburg, Virginia
83. Rocco AG, Chan V, Iacobo C. An Algorithm for the Treatment of Pain in Adanced Cancer. Joint Meeting of the Canadian and American Pain Societies 1988, Toronto, Canada
84. Chan VWS, Chung F, Cheng DCH, Kirby TJ, Chung A, Sandler A: Continuous Intercostal Nerve Block for Pain Relief Following Thoracotomy- A New Approach. *Can J Anaesth* 35:S113, 1988
85. Chan VWS, H Vosu, PK Morley-Forster. Shivering Following Epidural Anaesthesia For Caesarean Section. Society For Obstetric Anesthesia & Perinatology Annual Meeting 1987, Halifax, Nova Scotia

## **VISITING PROFESSORSHIPS, INVITED LECTURES, SYMPOSIA AND WORKSHOPS**

### **VISITING PROFESSORSHIPS**

1. 2012 Sep Department of Anesthesia, Xijing Hospital, Xi'an China  
Lecture "*Recent Advance and Future Trend in Ultrasound Guided Regional Anesthesia*"
2. 2012 Sep Department of Anesthesia, 2<sup>nd</sup> Affiliated Hospital of Wenzhou Medicine College, Wenzhou, China  
Lecture "*Recent Advance and Future Trend in Ultrasound Guided Regional Anesthesia*"
3. 2012 Sep Department of Anesthesia, Peking University No. 3 Hospital, Beijing, China  
Lecture "*Recent Advance and Future Trend in Ultrasound Guided Regional Anesthesia*"
4. 2012 Sep Department of Anesthesia, Chaoyang Hospital, Beijing, China  
Lecture "*Recent Advance and Future Trend in Ultrasound Guided Regional Anesthesia*"
5. 2012 Feb Department of Anesthesia, University of California San Francisco, San Francisco CA  
Lectures "*Perioperative Use of Ultrasound in Anesthesia*" & "*Sonoanatomy Relevant to Pain Blocks*"
6. 2012 Jan Department of Anesthesia, Hospital for Special Surgery, New York NY  
Lecture "*Recent Advances in Ultrasound Imaging for Regional Anesthesia*"
7. 2010 Apr Department of Anesthesia, campus Gasthuisberg, UZ Leuven, Leuven, Belgium  
Lecture "*Recent Advances in Ultrasound Guided Regional Anesthesia*"
8. 2010 Apr Department of Anesthesiology and Pain Therapy, Maastricht University Medical Center, Maastricht, Netherlands  
Lectures "*Does Ultrasound Make Regional Anesthesia Safer?*" & "*Difficult Spine Cases*"

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9. 2010 Feb Stony Brook University Health Sciences Center School of Medicine  
AAPM/Pfizer Visiting Professorships in Pain Medicine Award  
Lecture *“Does Ultrasound Make Regional Anesthesia Safer?”*
10. 2010 Feb Beth Israel Deaconess Medical Center, Department of Anesthesia, Critical Care  
and Pain Medicine  
Lecture *“Does Ultrasound Make Regional Anesthesia Safer?”*
11. 2009 May Gary Johnson Resident Research Day, Department of Anesthesiology University  
of Ottawa, Ottawa, Ontario  
Lecture *“Ultrasound Applications in Anesthesia”*
12. 2009 Apr Department of Anesthesia, Sir Charles Gairdner Hospital, Perth, West Australia  
Lectures *“Ultrasound Applications in Anesthesia Practice”* & *“Topics and  
Controversies in Regional Anesthesia”*
13. 2009 Mar Department of Anaesthetics, Royal Prince Alfred Hospital, Sydney, Australia  
Lectures *“Ultrasound vs. Nerve Stimulation for Regional Anesthesia”* & *“Clinical  
Pearls for Ultrasound Guided Nerve Blocks”*
14. 2009 Feb Department of Anesthesia & Critical Care, Massachusetts General Hospital,  
Harvard Medical School, Boston MA  
Lecture *“Ultrasound Applications in Anesthesia”*
15. 2009 Feb Department of Anesthesiology, Queen’s University, Kingston, Ontario  
Lecture *“Ultrasound Guided Regional Anesthesia”*
16. 2008 Dec Department of Anesthesia, University of Iowa, Iowa City, IA  
Lectures *“Ultrasound Applications in Anesthesia”* & *“Essentials of Regional  
Anesthesia”*
17. 2008 July Department of Anesthesia, Wayne State University, Detroit, MI  
Lectures *“Newer Ultrasound Applications for Anesthesia Practice”* and  
*“Ultrasound Guided Regional Anesthesia”*
18. 2008 May Department of Anesthesiology, University of Buffalo, Buffalo, NY  
Lecture *“Newer Ultrasound Applications for Anesthesia Practice”*
19. 2008 Feb Department of Anesthesiology, St. Vincent’s Hospital, Melbourne, Australia  
Lecture *“Newer Ultrasound Applications in Anesthesia”*
20. 2008 Jan Department of Anesthesiology, Penn State Hershey Medical Center, Hershey, PA  
Lecture *“Ultrasound Guided Regional Anesthesia- Is It Here to Stay?”*
21. 2007 Oct Department of Anesthesiology, SUNY Downstate Medical Center, Brooklyn, NY  
Lectures *“Ultrasound Guided Regional Anesthesia”* & *“Ultrasound For  
Anesthesia Practice”*
22. 2007 Sep Department of Anesthesia, Rikshospitalet, Oslo, Norway  
Lecture *“Is Ultrasound Guided Neuraxial Block a Useful Technique?”*
23. 2007 May Vanderbilt University Medical Center, Department of Anesthesiology, Nashville,  
TN  
Lecture *“Newer Applications of Ultrasound in Anesthesia- An Update”*
24. 2007 Apr University of Maryland, Department of Anesthesiology, Baltimore, Maryland  
Lectures *“Ultrasound Guided Vascular Access”* & *“Ultrasound Guided Regional  
Anesthesia”*
25. 2006 Sep Oregon Health & Science University, Department of Anesthesiology &

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- Peri-Operative Medicine, Portland, Oregon  
Lecture "*Purpose Driven Regional Anesthesia- The Role of Ultrasound Imaging*"  
Problem Based Learning "*Challenging Cases in Regional Anesthesia*"
26. 2006 Aug Columbia University Medical Center, Department of Anesthesiology, New York  
Presbyterian Hospital Medical Center, New York  
Lecture "*Ultrasound Imaging for Regional Anesthesia*"
27. 2006 Aug Virginia Mason Medical Center, Department of Anesthesiology, Seattle, WA  
Lecture "*Ultrasound Imaging for Regional Anesthesia*"
28. 2006 July Cleveland Clinic, Division of Anesthesiology, Critical Care Medicine and  
Comprehensive Pain Management, Cleveland  
Lectures "*Ultrasound Imaging for Regional Anesthesia*" & "*How Ultrasound  
Guided Techniques Can Improve Patient Outcome*"
29. 2006 June Brigham and Women's Hospital, Department of Anesthesia, Boston, MA  
Lecture "*Purpose Driven Regional Anesthesia- The Role of Ultrasound Imaging*"
30. 2006 May University of Manitoba, Department of Anesthesia, Winnipeg, Manitoba  
Lectures "*Ultrasound Guided Regional Blocks*", "*How Ultrasound Guided  
Vascular Access and Regional Anesthesia Can Improve Patient Outcome*"
31. 2006 May Vanderbilt University Medical Center, Department of Anesthesiology, Nashville,  
TN  
Lecture "*Purpose Driven Regional Anesthesia – The Role of Ultrasound  
Imaging*"
32. 2006 May Rush University Medical Center, Department of Anesthesiology, Chicago, IL  
Lecture "*Ultrasound Guided Nerve Blocks*"
33. 2006 Jan Hospital Authority, Hong Kong, China  
Lectures "*The Basics of Ultrasound Imaging*", "*Ultrasound Guided Brachial  
Plexus Blocks*", "*Ultrasound Guided Lumbosacral Blocks*", "*Can ultrasound  
Guidance Improve Block Outcome?*"  
Workshop demonstration at Queen Mary Hospital, Queen Elizabeth Hospital,  
United Christian Hospital, Kwong Wah Hospital, Caritas Medical Centre, Tuen  
Mun Hospital, Alice Ho Miu Ling Nethersole Hospital, Prince of Wales Hospital,  
North District Hospital
34. 2006 Jan Department of Anesthesiology, University of Alabama, Birmingham, AL  
Lectures "*What you see is what you get: Ultrasound Imaging for Regional  
Anesthesia*", "*Does Ultrasound Guided Nerve Block Improve Patient Outcome?*"
35. 2005 Dec Department of Anesthesia, Queen's University, Ontario, Canada  
Lecture "*What you see is what you get: Ultrasound Imaging for Regional  
Anesthesia*"  
Workshop "*Challenging cases in Regional Anesthesia*"
36. 2005 Jun Department of Anesthesiology, Vanderbilt University Medical Center, Nashville,  
TN  
Lectures "*Ultrasound Imaging for Peripheral Nerve Blocks*" and "*Use of  
Ultrasound Guided Nerve Blocks*"  
Workshop "*Ultrasound Guided Nerve Blocks*"
37. 2004 Dec Ralph M. Waters Visiting Professor, Department of Anesthesiology, University of

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- Wisconsin, Madison, Wisconsin  
Lectures *“Ultrasound Imaging as a Teaching Tool”* and *“Is Ultrasound Guided Nerve Block Practical?”*
38. 2004 May Department of Anesthesia, Wake Forest University Health Sciences Center, Winston-Salem, North Carolina  
Lectures *“Ultrasound Imaging As A Teaching Tool”* and *“Is Ultrasound Guided Nerve Block Practical?”*
39. 2004 Apr Department of Anesthesia, Universitair Medisch Centrum, St Radboud, Nijmegen, Netherlands  
Lectures *“Epidural Analgesia- Does It Improve Outcome?”*, *“Ultrasound Imaging for Peripheral Nerve Blocks”*
40. 2004 Jan Department of Anesthesia, University of Western Ontario  
Lecture *“Ultrasound and Regional Anesthesia”*
41. 2003 Sep Department of Anesthesiology, Mayo Clinic, Rochester MN  
Lectures *“Ultrasound Imaging for Peripheral Nerve Blocks”*, *“Regional Anesthesia Case Presentations”*
42. 2001 Apr Department of Anesthesia, University of Iowa, Iowa City, IA  
Lectures *“What is New in Regional Anesthesia for Pain Management?”* & *“Treatment of Postdural Puncture Headache”*
43. 2001 Jan Department of Anesthesia, University of Manitoba, Winnipeg, Canada  
Lectures *“What is New in Regional Anesthesia for Pain Management”* & *“Regional Analgesia for Thoracic Surgery”*  
Workshop *“Brachial Plexus Blocks”*
44. 2000 Mar Department of Anesthesia, McMaster University, Hamilton, Canada  
Lecture *“Promotion of Regional Anesthesia in a Busy Clinical Practice”*  
Workshop *“Brachial Plexus Blocks”*
45. 1999 Oct Leonard Jenkins Visiting Professor, Department of Anesthesia, University of British Columbia, Vancouver, Canada  
Lectures *“Recent Advances in Regional Anesthesia”* & *“Epidural Analgesia for Postoperative Pain”*  
Workshop *“Brachial Plexus Blocks”*
46. 1999 Mar Department of Anesthesia, University of Calgary  
Lectures *“Recent Advances in Regional Anesthesia”* & *“Regional Anesthesia in a Teaching Hospital– Challenges and Solutions”*
47. 1995 Sept First Affiliated Hospital of the West China University of Medical Sciences, Sichuan, China  
Lecture *“Understanding the Management of Pain”*
48. 1995 Sept Peoples' Hospital of Mingshan Prefecture, Sichuan, China  
Lecture *“Recent Advances in Regional Anesthesia and Pain Management”*

### **International Meetings**

Vincent WS Chan

- 2012 Oct Acute & Chronic Pain Symposium, Gurgaon India  
Lecture *“Ultrasound Guided Lower Limb Blocks,” “Ultrasound Guided Central Neuraxial Block”*
- 2012 Oct 7<sup>th</sup> Advanced Regional Anaesthesia and Ultrasound Workshop, Hyderabad, India  
Lecture *“Ultrasound for Regional Anesthesia - An Update,” “Ultrasound Guided Sciatic Nerve Block”*  
Moderator *“Pro Con Debate- Dual Guidance with Peripheral Nerve Stimulation and Ultrasound”*  
Workshop *“Lower Limb Blocks”*
- 2012 Oct Department of Anaesthesia, King Edward Memorial Hospital, Mumbai, India  
Lecture *“Basic Principles of Ultrasound for Regional Anesthesia”*  
Live Demonstration in the Operating Room
- 2012 Oct Ultrasound Guided Nerve Block Workshop, Dubai  
Lecture *“Current Concept and Future Trends of Ultrasound Guided Regional Anesthesia”*  
Workshop *“Interscalene & Supraclavicular” “Axial Block”*
- 2012 Oct 63<sup>rd</sup> American Society of Anesthesiologists Annual Meeting, Washington DC  
Lecture *“Nerve Injury Following Regional Anesthesia: What Has Ultrasound Taught Us?”*  
Workshop *“Peripheral Nerve Blocks: Ultrasound, Simulation and Stimulation”*
- 2012 Oct Timisoara Ultrasound Guided Regional Anesthesia Workshop, Timisoara, Romania  
Lectures *“Brachial Plexus Above the Clavicle,” “Brachial Plexus Below the Clavicle,” “Peripheral Upper Limb Blocks,” “Femoral /Saphenous Nerve Block,” “Sciatic Nerve (Popliteal) & Ankle Blocks,” “Neuraxial Block,” “Transversus Abdominis Block (TAP)/Ilioinguinal/Illiohypogastric Nerve Block”*  
Workshop *“Pig Phantom”*
- 2012 Oct 23<sup>rd</sup> Meeting of European Society for Computing and Technology in Anesthesia and Intensive Care, Timisoara, Romania  
Lecture *“Current Concepts and Future Trends for Ultrasound Guided Regional Anesthesia”*
- 2012 Sep Guangdong Provincial Hospital, Guangzhou, China  
Lecture *“Recent Advance and Future Trend in Ultrasound Guided Regional Anesthesia”* and *“How to publish the papers in the international Journal”*
- 2012 Sep Zhongshan University 1st Affiliated Hospital, Guangzhou, China  
Live Demonstration Ultrasound Guided Regional Anesthesia
- 2012 June 9<sup>th</sup> Annual International Symposium of Ultrasound for Regional Anesthesia and Pain Medicine, Toronto, Canada  
Lecture *“What is the Optimal Local Anesthetic Spread Pattern?”*
- 2012 May 86<sup>th</sup> International Anesthesia Research Society Clinical & Scientific Congress, Boston MA  
Workshops *“Advanced Ultrasound Guided Nerve Block”* and *“Peripheral Nerve Blocks: Ultrasound, Simulation and Stimulation”*

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- 2012 Apr 4<sup>th</sup> Annual Ultrasound Guided Regional Anesthesia Workshop Upper and Lower Extremity Peripheral Nerve Blocks, Little Rock, AR  
Lectures “*Basics of Ultrasound Guided Regional Anesthesia*” & “*Axillary Brachial Plexus Block*”  
Live Demonstrations “*Ultrasound Guided Brachial Plexus and Lower Limb Blocks*”  
Workshop “*Ultrasound Guided Brachial Plexus Block*”
- 2012 Mar 15<sup>th</sup> WSFA World Congress of Anesthesiologists, Buenos Aires, Argentina  
Lectures “*Ultrasound for Regional Anesthesia: Where are We Today?*” & “*Ultrasound Guided Perineural Catheter for Pain Management*”  
Workshop “*Regional Anesthesia in Adults*”
- 2012 Mar 37<sup>th</sup> American Society of Regional Anesthesia and Pain Medicine Annual Spring Meeting, San Diego CA  
Workshops “*Infraclavicular and Axillary Brachial Plexus Blocks*” & “*Intensive Ultrasound Comprehensive Workshop*”
- 2012 Mar 4<sup>th</sup> USRA Symposium of Regional Anaesthesia - Ultrasound guided nerve blocks -seminar and workshop, University of Leipzig, Leipzig, Germany  
Lecture “*Sciatic nerve blocks: popliteal, anterior and subgluteal*”  
Workshop “*Sonoanatomy for peripheral nerve blocks*”
- 2012 Feb Annual Meeting of the Tennessee Society of Anesthesiologists, Nashville, TN  
Lecture “*Perioperative Use of Ultrasound in Anesthesia*”
- 2011 Dec NYSORA 10<sup>th</sup> Annual Regional Anesthesia and Acute Pain Management Symposium  
Lectures “*Ultrasound and Continuous Nerve Blocks: Techniques and Stimulating versus Non-Stimulating Catheters*” & “*Equipment for Peripheral Nerve Block: What is New That You Should Know About*”
- 2011 Dec Ultrasound Guided Regional Anesthesia Workshop, 6<sup>th</sup> Ateliers d’Echographie en ALR, Clermont-Ferrand, France  
Lecture “*Ultrasound Guided Regional Anesthesia: Complications & Prevention*”  
Workshop “*Infraclavicular Block*”
- 2011 Nov 58<sup>o</sup> Congresso Brasileiro de Anestesiologia, Fortaleza, CE, Brazil  
Lectures “*Understanding Ultrasound Images of Peripheral Nerve Blocks*” & “*Local Anesthetic Toxicity in Peripheral Nerve Blocks*”  
Workshop “*Peripheral and Neuraxial Blockade*”
- 2011 Nov Continuing Medical Education Day 2011 and Current Concepts Symposium, The Royal College of Anaesthetists, London, UK  
Lectures “*Peripheral Nerve Blockade*” & “*Regional Anaesthesia and Anticoagulated Patients: ASRA Guidelines*”
- 2011 Oct 62<sup>nd</sup> American Society of Anesthesiologists Annual Meeting, Chicago, IL  
Lecture “*Nerve Injury Following Regional Anesthesia: What Has Ultrasound Taught Us?*”  
Workshop “*Peripheral Nerve Blocks: Ultrasound, Simulation and Stimulation*”

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- 2011 Aug      Ultrasound Guided Peripheral Nerve Block, International Training Course, Department of Anesthesiology, Faculty of Medicine Siriraj Hospital, Bangkok, Thailand  
Lectures “*Pearls and Pitfalls in Ultrasound Guided Regional Anesthesia,*” & “*Principles of ultrasonography: physics, scanning techniques, knobology*”  
Live Demonstration “*Interscalene, Supraclavicular, Infraclavicular, Axillary Brachial Plexus Sonoanatomy*”  
Panel Discussion “*Diagnosis and Prognosis of Nerve Damage Associated with Peripheral Nerve Block*”  
Workshop “*Upper Extremity : Interscalene, Supraclavicular, Scanning and Needling Technique (Soft Cadaver)*”
- 2001 Aug      The Royal College of Anesthesiologists of Thailand, Annual Meeting, Bangkok, Thailand  
Lecture “*Preoperative Ultrasound Application for Airway, Stomach and Cardiac Assessment*”
- 2011 Jul      International Forum on Visual Technology for Anesthesia/Pain/Critical care/Emergency Medicine 2011, Cheng Du, China  
Lectures “*Ultrasound Guided Regional Anesthesia- Current Concept & Future Trend*” & “*New Applications of Ultrasound in Anesthesia and Future Trends in Regional Anesthesia*”  
Workshop “*Vascular, Tracheal and Stomach Ultrasound*”
- 2011 Jul      Beijing Society of Anesthesiology Annual Meeting, Beijing, China  
Lecture “*Ultrasound Guided Regional Anesthesia – Current Concepts and Future Trend*”
- 2011 May      85<sup>th</sup> International Anesthesia Research Society Clinical & Scientific Congress, Vancouver, Canada  
Lecture “*Ultrasound Guided Perineural Catheter*”  
Workshops “*Advanced Ultrasound Guided Nerve Block*” and “*Peripheral Nerve Blocks: Ultrasound, Simulation and Stimulation*”
- 2011 May      Combined Scientific Meeting of the Australian and New Zealand College of Anaesthetists (ANZCA), the Faculty of Pain Medicine (FPM) and the Hong Kong College of Anaesthesiologists (HKCA), Hong Kong, China  
Lectures “*Does Regional Anaesthesia Improve Outcomes?*”, “*Breaking the Sound Barrier: Update on Ultrasound in Clinical Practice*”, “*New Uses of Ultrasound in (Non-Regional) Anaesthesia Practice*”, “*Training, Competency and Certification in Ultrasound-Guided Regional Anaesthesia*” & “*Intraneural Injection: Is It Ever Indicated?*”  
Poster Session Facilitator  
Moderator, Live Pearls: Realtime Ultrasound-Guided Regional Anaesthesia Demonstration
- 2011 Apr      3<sup>rd</sup> Annual Ultrasound Guided Regional Anesthesia Workshop Upper and Lower Extremity Peripheral Nerve Blocks, Little Rock, AR  
Lectures “*Basics of Ultrasound Guided Regional Anesthesia*” & “*Axillary Brachial Plexus Block*”



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- Live Demonstrations “*Ultrasound Guided Brachial Plexus and Lower Limb Blocks*”  
Workshop “*Ultrasound Guided Brachial Plexus*”
- 2011 Apr 8<sup>th</sup> Annual International Symposium of Ultrasound for Regional Anesthesia and Pain Medicine, Bern, Switzerland  
Lecture “*Recent and Relevant Literature in Ultrasound Guided Regional Anaesthesia*” & “*Ultrasound Guided Catheter Techniques – Tips and Tricks*”  
Workshops “*Ultrasound Guided Upper and Lower Limb Blocks*”
- 2011 Apr Cadaver Workshop Innsbruck, Austria  
Workshop Instructor
- 2011 Apr 1<sup>st</sup> African Society for Regional Anesthesia meeting, Cairo, Egypt  
Lectures “*Ultrasound Guided Brachial Plexus Block*” & “*Ultrasound Guided Lower Limb Blocks*”  
Workshop “*Ultrasound Guided Upper and Lower Limb Blocks*”
- 2011 Mar 3<sup>rd</sup> International Symposium on Spine and Paravertebral Sonography for Anaesthesia and Pain Medicine  
Lectures “*Ultrasound Guided Regional Anesthesia – Where Are We Today?*” & “*New Applications of Ultrasound in Anaesthesia and Future Trends in Regional Anaesthesia*”  
Workshops “*Brachial Plexus Block above the Clavicle - Interscalene and Supraclavicular*” & “*Lumbar Paravertebral Imaging*”
- 2011 Mar 3<sup>rd</sup> USRA Symposium of Regional Anaesthesia - Ultrasound guided nerve blocks – seminar and workshops, University of Potsdam, Potsdam, Germany  
Lectures “*Where are the pitfalls? Errors and artifacts*”, “*What will the future bring– in Europe and North America?*”  
Workshops “*Sonoanatomy of Peripheral Nerves and Surrounding Tissues*”, “*Sonoanatomy of the Brachial Plexus and Peripheral Nerves*”, “*Sonoanatomy for Lower Extremity Nerve Blocks*” & “*Sonoanatomy for Central Neuraxial and Anterior Abdominal Wall Blocks*”
- 2010 Dec NYSORA 9<sup>th</sup> Annual Regional Anesthesia and Acute Pain Management Symposium  
Lecture “*Ultrasound Guided Regional Anesthesia Artifacts, Pitfalls and Clinical Pearls*”  
Workshop “*Single-Injection and Continuous Sciatic and Popliteal Blocks*”
- 2010 Dec 64<sup>nd</sup> Postgraduate Assembly in Anesthesiology, The New York State Society of Anesthesiologists, Inc., New York, NY  
Lecture “*Update on Ultrasound Guided Regional Anesthesia*”  
Workshop “*Ultrasound, Simulation and Stimulation for Peripheral Nerve Blocks*”
- 2010 Nov Annual Pain Medicine Meeting and Workshops, American Society of Regional Anesthesia and Pain Medicine, Phoenix, AZ  
Lecture “*Ultrasound for Pain Procedures– Present and Future*”, “*Principles of Ultrasonography: Physics, Scanning Techniques, Knobology*”
- 2010 Oct 61<sup>th</sup> American Society of Anesthesiologists Annual Meeting, San Diego, CA

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- 2010 Sep  
Lecture *“Is Ultrasound the Most Effective and Safest Technique for Peripheral Nerve Block?”*  
Workshop *“Peripheral Nerve Blocks: Ultrasound, Simulation and Stimulation”*  
VIII Symposium on Regional Anesthesia and Pain Medicine, Santiago, Chile  
Lectures *“Ultrasound Guided Catheter Techniques”* *“Ultrasound Guided Central Neuraxial Blocks”* & *“Outcome of Ultrasound Guided Regional Anesthesia”*  
Workshops *“Sonoanatomy of the Upper Limb”* & *“Sonoanatomy of the Lower Limb”*
- 2010 Aug  
Ultrasound for Pain Medicine Workshop, Satellite Symposium of the 13<sup>th</sup> World Congress on Pain, Montreal, Canada  
Lecture *“Basic Techniques for Ultrasound Guided Injection”*  
Workshop *“Lateral Femoral Cutaneous Nerve, Ilioinguinal and Iliohypogastric Nerves”*
- 2010 Jun  
Excellence in Regional Anesthesia Workshop, American Society of Regional Anesthesia, Chicago, MI  
Lecture *“Ultrasound Guided Brachial Plexus Blocks Above the Clavicle”*  
Workshops *“Brachial Plexus Blocks Above the Clavicle”* *“Brachial Plexus Blocks Below the Clavicle”* *“Blocks of Abdomen and Spine”* *“Lower Extremity Blocks”*
- 2010 Jun  
7<sup>th</sup> Annual International Symposium of Ultrasound for Regional Anesthesia and Pain Medicine, Toronto, Ontario, Canada  
Lecture *“Ultrasound Guided Perineural Catheter Techniques”*
- 2010 Mar  
84<sup>th</sup> International Anesthesia Research Society Clinical & Scientific Congress, Honolulu, Hawaii  
Lecture *“Ultrasound Guided Regional Anesthesia”*  
Workshops *“Advanced Ultrasound Guided Nerve Block”* and *“Peripheral Nerve Blocks: Ultrasound, Simulation and Stimulation”*
- 2010 Mar  
2<sup>nd</sup> International Symposium on Spine and Paravertebral Sonography for Anaesthesia and Pain Medicine  
Lectures *“Ultrasound Guided Regional Anesthesia – Where Are We Today?”*  
Workshops *“Lower Extremity Blocks with the Patient in the Prone Position – Sciatic Nerve Blocks”* & *“Lumbar Paravertebral Imaging”*
- 2010 Jan  
Aspen Anesthesia 2010, Snowmass, CO  
Lectures, *“Ultrasound Guided Lumbosacral Plexus and Neuraxial Blocks”* *“Ultrasound Guided Lower Limb Blocks”* *“Ultrasound Guided Upper Limb Blocks”* & *“Can Ultrasound Imaging Change Clinical Outcome?”*
- 2009 Nov  
Annual Pain Medicine Meeting and Workshops, American Society of Regional Anesthesia and Pain Medicine, San Antonio, TX  
Lectures *“Basic Ultrasound Techniques”* & *“Principles of Ultrasonography: Physics, Scanning Techniques, Knobology”*
- 2009 Oct  
60<sup>th</sup> American Society of Anesthesiologists Annual Meeting, New Orleans, LA  
Moderator *“Ultrasound-Guided Regional Anesthesia: Future Practice or Flash in the Pan?”*  
Moderator *“Why Do A Regional Anesthetic When a Local Will Do?”*  
Lecture *“Ultrasound Can Prevent Nerve Injury”*  
Workshop *“Peripheral Nerve Blocks: Ultrasound, Simulation and Stimulation,”*

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- 2009 Sep Midwest Anesthesiology Conference Presented by the Illinois Society of Anesthesiologists, Chicago, Illinois  
Lecture *“Does Ultrasound Make Regional Anesthesia Safer?”*  
Workshop *“Ultrasound for Upper and Lower Limbs”*
- 2009 Sep 6<sup>th</sup> Annual International Symposium of Ultrasound and Regional Anesthesia, Schwetzingen, Germany  
Lecture *“Catheters and Peripheral Nerve Blocks” & “Nerve Stimulation or Ultrasound Visualization”*
- 2009 Sep 28<sup>th</sup> European Society of Regional Anesthesia Annual Congress, Salzburg, Austria  
Workshops *“Basic Ultrasound Workshop” and “Experienced Ultrasound Workshop”*
- 2009 Jul Excellence in Regional Anesthesia Workshop, American Society of Regional Anesthesia, Seattle, WA
- 2009 Apr 34<sup>th</sup> American Society of Regional Anesthesia and Pain Medicine Annual Spring Meeting, April 2009, Phoenix AZ  
Lecture *“Review of ASRA-ESRA Guidelines for Curricula”*  
Workshops *“Ultrasound Upper Extremity” & “Intensive Ultrasound Comprehensive Workshop”*
- 2009 Apr 1<sup>st</sup> International Symposium on Spine and Paravertebral Sonography for Anaesthesia and Pain Medicine  
Lectures *“Sonoanatomy of the Upper Limb,” “Ultrasound Guided Perineural Catheter Placement- Challenges and Pearls” & “Basic Principles of Spine and Paravertebral Imaging”*  
Workshops *“Sonoanatomy Upper Limb: Midhumeral, Radial, Ulnar, Median and Musculocutaneous Nerves” & “Lumbar Paravertebral Imaging”*
- 2009 Apr Australian Regional Anaesthesia Cadaveric Ultrasound Seminars, Perth, West Australia  
Lecture *“Newer Ultrasound Applications for Anesthesia Practice”*  
Debate *“All Patients Should Get Regional Anesthesia?” & “Ultrasound vs. Nerve Stimulation for Regional Anesthesia”*  
Workshops *“Brachial Plexus Below the Clavicle” & “Supraclavicular Block”*
- 2009 Mar 2009 Jobson Symposium on Regional Anaesthesia Recent Developments & Outcome  
Lectures *“Ultrasound Guidance for Upper Limb Blocks,” “Ultrasound Guidance for Lower Limb Blocks,” “Ultrasound Guided Neuraxial and Paravertebral Blocks,” “Ultrasound Guided Regional Anaesthesia – Outcome Data” & “Newer Ultrasound Applications for Anaesthetic Practice”*
- 2009 Mar 83<sup>rd</sup> International Anesthesia Research Society Clinical & Scientific Congress, San Diego, CA  
Lecture *“Ultrasound in Regional Anesthesia”*  
Workshops *“Advanced Ultrasound Guided Nerve Block” and “Peripheral Nerve Blocks: Ultrasound, Simulation and Stimulation”*
- 2009 Jan One Day Ultrasound Conference, West Kowloon Cluster, Hong Kong, China  
Lectures *“Clinical Outcome of Ultrasound Guided Regional Anaesthesia - Evidence Based Medicine,” “Sonographic Imaging of the Spine” & “Ultrasound Guided Continuous Catheter Technique”*
- 2008 Dec NYSORA 7<sup>th</sup> Annual Regional Anesthesia and Acute Pain Management Symposium

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- 2008 Dec Lecture *“Ultrasound-Guided Regional Anesthesia-Evidence Based Review”*  
Workshop *“Ultrasound Guided Sciatic Nerve Blocks”*  
62<sup>nd</sup> Postgraduate Assembly in Anesthesiology, The New York State Society of Anesthesiologists, Inc., New York, NY
- 2008 Oct Lecture *“Current Approaches to Regional Anesthesia – Ultrasound”*  
Workshop *“Ultrasound, Simulation and Stimulation for Peripheral Nerve Blocks”*  
59<sup>th</sup> American Society of Anesthesiologists Annual Meeting, San Francisco, California  
Lectures *“Basics of Ultrasonography and Its Pitfalls and Limitations in Nerve Blocks,” “Maximizing Benefits of Regional Anesthesia” & “Ultrasound Will Improve Block Quality”*  
Workshops *“Peripheral Nerve Blocks: Ultrasound, Simulation and Stimulation,” “Ultrasound-Guided Regional Anesthesia and Clinical Skills Workshop,” “Cadaver Workshop –Plexus Dissection” & “Cadaver Workshop - Ultrasound Guided Needle Placements”*
- 2008 Sep 21<sup>st</sup> International Congress of the Israel Society of Anesthesiologists, Tel Aviv, Israel  
Lectures *“State of the Art Detection for Peripheral Nerve Blocks”, “Sciatic Nerve Block Using Ultrasound” & “Ultrasound-Guided Regional Anesthesia”*
- 2008 Aug 37<sup>o</sup> Congreso Argentino de Anestesiología - VIII Pan-American Symposium of Regional Anesthesia, Buenos Aires, Argentina  
Lectures *“Upper Limb Blocks under Ultrasound Guidance,” “Lower Limb Blocks under Ultrasound Guidance” and “Ultrasound versus Nerve Stimulation-Evidence Based Data”*
- 2008 July Hull Regional Anaesthesia Symposium & Workshop, Hull, UK  
Lectures *“Ultrasound Guided Nerve Blocks- Upper Limb”, “Ultrasound Guided Nerve Blocks- Lower Limb”, “Continuous Catheter Regional Anesthesia At Home” & “Abdominal Wall Blocks”*  
Workshops *“Upper and Lower Limb Hands On Workshop” & “Operating Room Live Demonstration”*
- 2008 June 25<sup>th</sup> Annual Pain Symposium, Texas Tech University Health Sciences Center, Lubbock TX  
Lecture *“Ultrasound Imaging for Pain Management”*
- 2008 May The 2008 Bruce Scott Lecture, ESRA (GB & I) Annual Meeting 2008, London, England  
Lecture *“Ultrasound Guided Regional Anesthesia – Is It Here to Stay?”*  
Workshop *“Ultrasound”*
- 2008 May 33<sup>rd</sup> American Society of Regional Anesthesia and Pain Medicine Annual Spring Meeting, May 2008, Cancun, Mexico  
Moderator *“ASRA/ESRA Guidelines for Ultrasound Guided Regional Anesthesia Teaching Curriculum”*  
Workshops *“Ultrasound Basic Lower Extremity Workshop” & Intensive Ultrasound Comprehensive Workshop”*
- 2008 Apr 5<sup>th</sup> Annual International Symposium of Ultrasound and Regional Anesthesia, Toronto, Canada  
Lecture *“Principles of Ultrasound Guided Catheterization”*

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- 2008 Apr 2<sup>nd</sup> International Cadaver Workshop ISURA 2008, Innsbruck, Austria  
Lecture *“Ultrasound Guided Regional Anesthesia”*  
Workshop *“Cadaver Lab”*
- 2008 Mar 82<sup>nd</sup> International Anesthesia Research Society Clinical & Scientific Congress, San Francisco, CA  
Lecture *“Regional Anesthesia and Analgesia for Acute Postoperative Pain Control – State of the Art Care”*  
Workshops *“Advanced Ultrasound Guided Nerve Block”* and *“Peripheral Nerve Blocks: Ultrasound, Simulation and Stimulation”*
- 2008 Mar Regional Anesthesia and Ultrasound Applications for Anesthesiologists, Vanderbilt University Medical Center, Department of Anesthesiology, Nashville, TN  
Lecture *“Ultrasound Guided Regional Anesthesia and Other Applications”*  
Workshop *“Cadaver Lab”*
- 2008 Feb Australasian Symposium on Ultrasound and Regional Anaesthesia, Melbourne, Australia  
Lectures *“Sciatic Nerve Block Using Ultrasound,” “New Applications of Ultrasound in Anaesthesia,” “Continuous Catheter Techniques”* & *“The Vertebral Column/Neuraxial Blockade”*  
Workshops *“Axillary Block”* & *“Supraclavicular Block”*
- 2007 Nov American Society of Regional Anesthesia and Pain Medicine Annual Fall Meeting, November 2007, Boca Raton FL  
Lecture *“Ultrasound Guided Blocks”* & *“Ultrasound Guided Chronic Pain Techniques”*  
Problem Based Learning *“Ultrasound Guidance in Acute and Chronic Pain”*
- 2007 Nov Midwest Anesthesiology Conference Presented by the Illinois Society of Anesthesiologists, Chicago, Illinois  
Lecture *“Ultrasound for Regional Anesthesia: Is it Here to Stay?”* & *“Pro-Con: Ultrasound Guidance Required for all Regional Anesthetics”*  
Workshop *“Ultrasound/Regional Anesthesia”*
- 2007 Oct 58<sup>th</sup> American Society of Anesthesiologists Annual Meeting, San Francisco, California  
Lectures *“Assessing Competency for Ultrasound Guided Regional Anesthesia”* & *“Ultrasound for Regional Anesthesia”*  
Workshops *“Peripheral Nerve Blocks: Ultrasound, Simulation and Stimulation”* & *“Cadaver Workshop - Ultrasound Guided Needle Placements”*
- 2007 Sep ESRA Scandinavian Zone Meeting, Rikshospitalet, Oslo, Norway  
Lectures *“Ultrasound Aiding Peripheral Nerve Blocks – Upper Extremity”* & *“Ultrasound Aiding Peripheral Nerve Blocks – Upper Extremity”*  
Workshop *“Peripheral Blocks”*
- 2007 Jun 54<sup>th</sup> Annual Meeting Japanese Society of Anesthesiologists, Sapporo, Japan  
Lectures *“The History and Future of Ultrasound Guided Nerve Blocks”* & *“Ultrasound Guided Peripheral Nerve Blocks”*
- 2007 May Regional Anesthesia and Acupuncture Workshop, Vanderbilt University Medical Center, Department of Anesthesiology, Nashville, TN  
Lecture *“What’s New in Ultrasound Guided Nerve Blocks”*

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- 2007 Apr Workshop “*Ultrasound Guided Neuraxial Blocks*”  
6<sup>th</sup> Annual Comprehensive Regional Anesthesia Workshop, Uniformed Services  
University of The Health Sciences, Bethesda MD
- 2007 Apr Workshop “*Ultrasound Techniques*”  
32<sup>nd</sup> American Society of Regional Anesthesia and Pain Medicine Annual Spring  
Meeting, April 2007, Vancouver BC  
Lecture “*Assessing Technical Competency for Ultrasound Guided Regional  
Anesthesia*”
- 2007 Mar Workshop “*Intensive Ultrasound Workshop*”  
4<sup>th</sup> Annual International Symposium on Ultrasound and Regional Anesthesia,  
Schwetzingen, Germany  
Lectures “*Lumbar Plexus Block*” & “*Ultrasound vs. Nerve Stimulator – Review  
and Outlook*”  
Workshops “*Introduction to Lower Limb Blocks*” & “*Brachial Plexus Below the  
Clavicle*”
- 2007 Mar 81<sup>st</sup> International Anesthesia Research Society Clinical & Scientific Congress,  
Orlando, FL  
Workshop “*Ultrasound and Nerve Stimulation for Lower Extremity*”
- 2007 Mar 5<sup>th</sup> International Conference on Pain Control and Regional Anaesthesia - Hong  
Kong, China  
Lectures “*Ultrasound guided peripheral nerve blocks*” & “*Equipment to improve  
success rates of peripheral blocks*”  
Workshops “*Ultrasound Peripheral Nerve Block*” & “*Pig Laboratory*”
- 2007 Feb Indiana Society of Anesthesiologists Annual Meeting, Indianapolis, IN  
Lecture “*Ultrasound Guided Regional Anesthesia*”
- 2007 Feb Aspen Anesthesia 2007, New Developments and Controversies, Snowmass, CO  
Lectures, “*Principles of Ultrasound Imaging and Ultrasound Guided Vascular  
Access*”, “*Ultrasound Guided Brachial Plexus Blocks*”, “*Ultrasound Guided  
Lumbosacral Plexus and Neuraxial Blocks*” & “*Can Ultrasound Imaging Change  
Clinical Outcome?*”
- 2007 Jan 9<sup>th</sup> Annual Conference, Challenges for Clinicians, The University of Chicago  
Department of Anesthesia & Critical Care, St. John, USVI  
Lectures “*Update on Acute Pain Management*”, “*Ultrasound Imaging for  
Regional Anesthesia and Outcome (Upper Limb Techniques)*” & “*Ultrasound  
Imaging for Regional Anesthesia and Outcome (Lower Limb Techniques)*”
- 2006 Dec Ateliers d’Echographie en ALR, Strasbourg, France  
Lecture “*State of the Art and Future of Ultrasound Imaging for Regional  
Anesthesia*”  
Workshop “*Interscalene and Supraclavicular Nerve Imaging*”
- 2006 Dec 60<sup>th</sup> Postgraduate Assembly in Anesthesiology, The New York State Society of  
Anesthesiologists, Inc., New York, NY  
Lectures “*Improving Success and Minimizing Complications of Regional  
Anesthesia: The Role of Ultrasound*” & “*Ultrasound for Regional Anesthesia*”
- 2006 Oct Ultrasound Guidance in Regional Anesthesia: First Interactive Course and Video  
Workshop, Erasmus Hospital, Brussels, Belgium  
Lectures “*Mid humeral and peripheral nerve blocks*”, “*Popliteal sciatic nerve  
block*” & “*Ultrasound machine for regional anesthesia: state of the art*”  
Workshop “*Supraclavicular block*”, “*Femoral nerve block*” & “*Popliteal sciatic  
nerve block*”

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- 2006 Oct 57<sup>th</sup> American Society of Anesthesiologists Annual Meeting, Chicago, Illinois  
Lectures “*Multimodal Analgesia: Luxury or Absolute Necessity?*” “*Update on Peripheral Nerve Blocks*” & “*Ultrasound, Perineural Catheters, Advances in Peripheral Nerve Stimulation: Advances or Added Expense?*”  
Workshops “*Continuous Nerve Blocks for Pain Control: In the Hospital and Beyond*” “*Peripheral Nerve Blocks: Ultrasound, Simulation, and Stimulation*”
- 2006 Sep Oregon Society of Anesthesiologists, Fall Meeting, Eugene Oregon  
Lectures “*Regional Anesthesia, Anatomy of Upper and Lower Extremity Blocks*” & “*Using Ultrasound to Guide Peripheral Nerve Blocks*”  
Workshop “*Ultrasound Guided Regional Anesthesia*”
- 2006 Sep XXV Annual European Society of Regional Anesthesia Congress, Monte Carlo, Monaco  
Workshop “*Ultrasound and Nerve Stimulation in the 21<sup>st</sup> Century*”
- 2006 Aug Sleepless in Seattle, Hold the Mayo: Regional Anesthesia 2006 Conference, Virginia Mason Medical Center and the Mayo Clinic, Seattle, WA  
Lecture “*Ultrasound for Peripheral Nerve Block*”  
Live Demonstration “*Ultrasound Imaging of Peripheral Nerves*”
- 2006 June Transforming Medical Practice, Changing the Role of Ultrasound in Medicine Symposium, Penn Club of New York, New York City, NY  
Lecture “*The Role of Ultrasound in Anesthesiology Practice*”
- 2006 May Regional Anesthesia and Acupuncture Workshop, Vanderbilt University Medical Center, Department of Anesthesiology, Nashville, TN  
Lecture “*Ultrasound Guided Nerve Blocks*”  
Workshop “*Ultrasound Guided Peripheral Nerve Blocks*”
- 2006 May The Chicago Society of Anesthesiologists, Chicago, Illinois  
Lectures “*Peripheral Nerve Block for Ambulatory Surgery*” and “*Purpose Driven Regional Anesthesia: The Role of Ultrasound*”
- 2006 May 10<sup>th</sup> Annual Symposium on Regional Anesthesia: Controversies and Fundamentals in Regional Anesthesia, Hospital for Special Surgery, New York City, NY  
Lecture “*Are the Benefits of Ultrasound Worth the Time, Effort and Cost?*”  
Workshop “*Ultrasound Techniques*”
- 2006 May Advanced Regional Anesthesia 2006: Invasive Pain Management Techniques and Regional Anesthesia Hands-On Workshop, Department of Anesthesiology, Wayne State University, Detroit, MI  
Lectures “*Using Ultrasound For Nerve Location*”, “*Conventional Block Technique vs. Ultrasound*”  
Workshop “*Ultrasound for Nerve Blocks*”
- 2006 Apr 3<sup>rd</sup> Annual International Symposium on Ultrasound and Regional Anesthesia, Toronto, Canada  
Lecture “*Literature Review – What’s New*”  
Workshops “*Femoral and Psoas Compartment*”, “*Interscalene and Supraclavicular Blocks*”
- 2006 Apr American Society of Regional Anesthesia & Pain Medicine – 31<sup>st</sup> Spring Meeting 2006, Rancho Mirage, California  
Lecture “*The Role of Ultrasound in Modern Regional Anesthesia: Current and Future Role*”, “*Basic Nerve Imaging and Ultrasound Guided Techniques*” and “*Pro-Con Debate: Ultrasound vs. Nerve Stimulator for Peripheral Nerve Blocks*”  
Intensive workshop “*Ultrasound guided peripheral nerve blocks*”

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- 2006 Mar 2<sup>nd</sup> World Congress on Regional Anaesthesia and Pain Therapy, Rio de Janeiro, Brazil  
Lectures “*Stimulating vs. Non Stimulating Catheters*”, “*Applying Ultrasound to Regional Anesthesia*” and “*Neuraxial Opioid Analgesia*”  
Workshop “*Use of Ultrasound for Regional Anesthesia*”
- 2006 Mar Kentucky Society of Anesthesiologists Annual Spring Meeting, Covington, Kentucky  
Lectures “*Ultrasound Guided Peripheral Nerve Blocks*” and “*Continuous Peripheral Nerve Blocks*”  
Problem Based Learning Discussion “*Ultrasound Guided Regional Anesthesia*”
- 2006 Feb Continuing Medical Education Course, Gulfcoast Ultrasound Institute, Inc., St Pete Beach, FL  
Lecture “*Ultrasound Guided Nerve Block Techniques and CVC Placement for the Anesthesiologist*”
- 2005 Dec 59<sup>th</sup> Postgraduate Assembly in Anesthesiology, The New York State Society of Anesthesiologists, Inc., New York, NY  
Lecture “*Improving Your Success Rate: Ultrasound Imaging for Regional Anesthesia*”
- 2005 Nov 4<sup>th</sup> International Conference on Pain Control and Regional Anaesthesia, Cape Town, South Africa  
Lectures “*Peripheral blocks for ambulatory surgery*”, “*Ultrasound imaging in regional anaesthesia*”, “*Cost-effectiveness of ropivacaine and levobupivacaine in postoperative pain*”  
Workshops “*How to set up an Acute Pain Service? North American perspective*”, “*Imaging techniques in regional anaesthesia – practical issues*”
- 2005 Nov Advances in Physiology and Pharmacology in Anesthesia and Critical Care, Wake Forest University, Hilton Head, SC  
Lecture “*Ultrasound for Regional Anesthesia and Vascular Access*”  
Workshop “*Infraclavicular and Axillary Blocks*”
- 2005 Oct 56<sup>th</sup> American Society of Anesthesiologists Annual Meeting, Atlanta, Georgia  
Lecture “*Ultrasonographic Anatomy and Guided Blocks of the Peripheral Nerve*”  
Moderator “*Ultrasound Guided Techniques for Regional Anesthesia*”  
Workshops “*Continuous Nerve Blocks for Pain Control: In the Hospital and Beyond*” “*Peripheral Nerve Blocks*”
- 2005 Oct First Annual Meeting of the Orthopedic Anesthesia, Pain and Rehabilitation Society, Atlanta, Georgia  
Lecture “*Principles of Nerve Location Using Ultrasound*”  
Workshop “*Nerve Location Using Ultrasound*”
- 2005 Sept XI European Society of Regional Anesthesia Local Meeting, Santiago de Compostela, Spain  
Lecture “*Ultrasonography and plexus blocks*”  
Workshops “*Ultrasound applied to brachial plexus block*” and “*Ultrasonography in the practice of perineural blocks*”
- 2005 Sept XI European Society of Regional Anesthesia Annual Meeting, Berlin, Germany  
Lectures “*Peripheral blocks in ambulatory surgery*”, “*Perineural and incisional techniques at home*” and “*Imaging techniques in regional anaesthesia*”  
Workshops “*Ultrasound guided upper limb blocks in adults and children*” and “*Ultrasound guided lower limb blocks*”
- 2005 Jun Austrian Postgraduate Assembly, AUSTRICA 2006, Vienna, Austria  
Lectures “*A Ray of Hope, Part 2: Sonoanatomy*” and “*Haemostasis and its Importance in Decision-Making: Aspirin - so what?*”



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- 2005 May 4<sup>th</sup> Annual Comprehensive Regional Anesthesia Workshop, Bethesda, Maryland  
Workshop “*Ultrasound Imaging for Regional Anesthesia*”
- 2005 Apr 2<sup>nd</sup> Annual International Symposium on Ultrasound and Regional Anesthesia,  
Schwetzingen, Germany  
Lectures “*Ultrasound imaging for brachial plexus blocks above the clavicle*”,  
“*Ultrasound imaging for sciatic nerve blocks*”
- 2005 Apr American Society of Regional Anesthesia & Pain Medicine - 30<sup>th</sup> Spring Meeting  
2005, Toronto, Canada  
Lecture “*Ultrasound imaging in regional anesthesia*”  
Intensive workshop “*Ultrasound guided peripheral nerve blocks*”
- 2004 Dec 3<sup>rd</sup> Annual Comprehensive Review of Regional Anesthesia, The Department of  
Anesthesiology, St. Luke’s & Roosevelt Hospitals and New York School of  
Regional Anesthesia, New York, New York  
Lecture “*What You See is What You Get: Ultrasound-Guided Nerve Blocks*”  
Panel “*Upper Extremity Blocks: Mistakes to Avoid*”
- 2004 Oct 55<sup>th</sup> American Society of Anesthesiologists Annual Meeting, Las Vegas, Nevada  
Lecture “*What You See Is What You Get: Will Ultrasound Become Standard  
Equipment for Regional Blocks*”  
Lecture “*Neural Localization With Ultrasound*”  
Workshop “*Continuous Nerve Blocks for Pain Control: In the Hospital and  
Beyond*”
- 2004 Oct 6<sup>th</sup> Regional Anesthesia International Symposium, 2<sup>nd</sup> Orthopedic Anesthesia,  
Pain and Rehabilitation Symposium, Las Vegas, Nevada  
Workshop “*Use of Ultrasound for Peripheral Nerve Blocks*”
- 2004 Aug 7<sup>th</sup> Pan American Symposium on Regional Anesthesia and Pain Control, Recife,  
Pernambuco, Brazil  
Lecture “*The Use of Ultrasound for Regional Anesthesia*”  
Workshop “*Ultrasound Guided Brachial Plexus Blocks*”
- 2004 May 2<sup>nd</sup> Joint Scientific Meeting of the American Pain Society and the Canadian Pain  
Society, Vancouver  
Lecture “*Regional Analgesic Techniques For Ambulatory Same-day Surgery*”
- 2004 Apr International Symposium on Ultrasound and Regional Anesthesia, Schwetzingen,  
Germany  
Lectures “*Ultrasound guided brachial plexus blocks*”, “*The past, present and  
future of regional anesthesia in perioperative medicine: an outlook*”
- 2004 Mar American Society of Regional Anesthesia & Pain Medicine - 29<sup>th</sup> Spring Meeting  
2004, Orlando, FL  
Master Class “*Making peripheral nerve blocks work in a busy practice*”  
Lecture “*Using ultrasound for nerve localization*” “*Ultrasound-an innovative  
approach to teaching regional anesthesia*”  
Intensive workshop “*Mastering the lumbosacral plexus and lower extremity  
peripheral blockade: A comprehensive approach to anatomy and clinical  
applications*”
- 2004 Feb 3<sup>rd</sup> International Conference on Pain Control and Regional Anaesthesia, Santiago,  
Chile  
Lectures “*Adjuvants in Neuraxial Blocks*”, “*Does postoperative pain  
management affect outcome? The role of epidural technique*”, “*Ultrasound  
Guided Peripheral Nerve Blocks*”  
Workshops “*Update on Transient Neurologic Syndrome*”, “*Upper Extremity  
Blocks*”
- 2004 Feb Continuing Medical Education Course, Gulfcoast Ultrasound Institute, Inc.,  
Chicago

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- Lecture *“Ultrasound Guided Nerve Block Techniques and CVC Placement for the Anesthesiologist”*
- 2003 Oct 54<sup>th</sup> American Society of Anesthesiologists Annual Meeting, San Francisco, California
- Lecture *“Lower Extremity Peripheral Nerve Block: Everything You Need to Know From the Experts- Video Presentation of Techniques”*
- 2003 Oct XI<sup>th</sup> Live Videoconference on Regional Anesthesia, Toulouse, France
- Workshop *“Ultrasound Guided Supraclavicular Block”*
- 2003 Apr Lecture, 28<sup>th</sup> American Society of Regional Anesthesia and Pain Medicine Annual Spring Meeting, San Diego, California
- “Imaging Techniques for Peripheral Nerve Blocks”*
- 2003 Apr Intensive Workshop, Mastering the Lumbosacral Plexus and Lower Extremity Peripheral Blockade: A Comprehensive Approach to Anatomy & Clinical Applications, 28<sup>th</sup> American Society of Regional Anesthesia and Pain Medicine Annual Spring Meeting, San Diego, California
- 2003 Apr Lecture, Controversies and Fundamentals in Regional Anesthesia 2003, 7<sup>th</sup> Annual Symposium, Hospital for Special Surgery, New York, New York
- “Who says nerve stimulators are the best way to go?”*
- 2002 Nov Lecture, The 22<sup>nd</sup> Annual Meeting of Japan Society for Clinical Anesthesia, Kofu, Japan
- “Patient Controlled Epidural Analgesia”*
- 2002 May Intensive Workshop, Mastering the Lumbosacral Plexus and Lower Extremity Peripheral Blockade: A Comprehensive Approach to Anatomy & Clinical Applications, American Society of Regional Anesthesia and Pain Medicine Annual Meeting, Chicago, Illinois
- 2002 Apr Master Class, American Society of Regional Anesthesia and Pain Medicine Annual Meeting, Chicago, Illinois
- “Making Upper Extremity Blocks Work in a Busy Clinical Practice”*
- 2001 Oct Lecture, Society of Ambulatory Anesthesia Mid Year Meeting, New Orleans, Louisiana
- “New Pharmacological Techniques for Postoperative Analgesia”*
- 2001 Oct Lecture, Panel Speaker, American Society of Anesthesiology Annual Meeting, New Orleans, Louisiana
- “Recent Advances in Intravenous Regional Anesthesia”*
- 2001 Aug Lectures, 8<sup>th</sup> Annual Comprehensive Review of Pain Management, American Society of Regional Anesthesia and Pain Medicine, Newport Beach, CA
- “Local Anesthetics”*
- “Evaluation and Management of Cancer Pain”*
- “Acute Pain”*
- 2001 Aug Lecture, International Symposium Ambulatory Surgery in the New Millennium, Stockholm, Sweden
- “Regional Techniques for Ambulatory Surgery- Peripheral Nerve Blocks in Day Surgery”*
- 2001 June Lecture, Society for Education in Anesthesia Annual Meeting, Cleveland, Ohio
- “Acquiring Regional Anesthesia Skills”*

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- 2001 June Workshop, Society for Education in Anesthesia Annual Meeting, Cleveland, Ohio  
*"Teaching Regional Anesthesia- What Works"*
- 2001 May Master Class, American Society of Regional Anesthesia and Pain Medicine Annual Meeting, Vancouver, BC  
*"Making Upper Extremity Blocks Work in a Busy Clinical Practice"*
- 2000 May American Society of Regional Anesthesia and Pain Medicine Annual Meeting, Vancouver, BC  
Lecture *" Arm Blocks for Outpatients "*
- 2001 Feb Lectures, Mayo Clinic Symposium on Anesthesia, Perioperative Medicine and Equipment, Orlando, Florida  
*"Treatment of Postdural Puncture Headache"*  
*"Cox-2 Inhibitors: Efficacy and Side Effects"*  
Panel member, *"Expert "On Call" Session"*
- 2000 Sept Lecture, Symposium on Understanding Regional Anesthesia and Perioperative Pain Control, The American Society of Regional Anesthesia, Syracuse, NY  
*"Advantages of Regional Anesthesia", "Brachial Plexus Blockade"*
- 2000 Aug Lecture, 5<sup>th</sup> Pan-American Symposium on Regional Anesthesia and Pain Control  
*"New Technological Advances In Regional Anesthesia "*
- 2000 Aug Interactive Session, 5<sup>th</sup> Pan-American Symposium on Regional Anesthesia and Pain Control *"Analgesic Adjuncts for Regional Anesthesia: What Do I Use?"*
- 2000 Aug Workshop, 5<sup>th</sup> Pan-American Symposium on Regional Anesthesia and Pain Control *"Glass Spine Model"*
- 2000 June Chairman, AstraZeneca Symposium, 12<sup>th</sup> World Congress of Anesthesiologists, Montreal, Canada  
*"An integrated approach to anaesthesia and pain management: Today and tomorrow"*
- 2000 June Chairman, 12<sup>th</sup> World Congress of Anesthesiologists, Montreal, Canada  
*"Regional Analgesia vs. Systemic Analgesia"*
- 2000 June Lecture, 12<sup>th</sup> World Congress of Anesthesiologists, Montreal, Canada  
*"Reflections on the Blood Patch after 40 Years "*
- 2000 June Lecture, International Symposium on Regional Anesthesia & Pain Medicine, Quebec, Canada  
*"Regional for Upper Extremity"*
- 2000 Mar Master Class, American Society of Regional Anesthesia and Pain Medicine Annual Meeting, Orlando, FL  
*"Recent Technical Advances in Regional Anesthesia and Pain Medicine"*
- 2000 Mar Workshop, American Society of Regional Anesthesia and Pain Medicine Annual Meeting, Orlando, FL  
*" Brachial Plexus Above the Clavicle "*
- 2000 Feb Lecture, Symposium on Understanding Regional Anesthesia and Perioperative Pain Control, The American Society of Regional Anesthesia, New Orleans, LA  
*"Brachial Plexus Blockade"*  
Workshop *"Upper Extremity Anesthesia"*

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- 1999 Dec Lecture, Current Concepts in Acute, Chronic and Cancer Pain Management, The World Foundation for Pain Relief and Research, New York, NY  
*"Pain Management for the Out-Patient Surgical Patient"*
- 1999 Dec Lecture, Symposium on Understanding Regional Anesthesia and Perioperative Pain Control, The American Society of Regional Anesthesia, Cincinnati, OH  
*"Regional Techniques for Postoperative Pain: Making the Pain Service Work"*  
*"Advantages of Regional Anesthesia"*
- 1999 Sept Lecture, Symposium on Understanding Regional Anesthesia and Perioperative Pain Control, The American Society of Regional Anesthesia, Milwaukee, WI  
*"Regional Techniques for Postoperative Pain: Making the Pain Service Work"*
- 1999 Sept Workshop, Symposium on Understanding Regional Anesthesia and Perioperative Pain Control, The American Society of Regional Anesthesia, Milwaukee, WI  
*"Upper Extremity Anesthesia"*
- 1999 May Lecture, American Society of Regional Anesthesia Annual Meeting, Philadelphia PA  
*"Regional Anesthesia of the Thorax"*
- 1999 May Workshop, American Society of Regional Anesthesia Annual Meeting, Philadelphia PA  
*"Brachial Plexus Block Below the Clavicle"*
- 1999 May Panel Discussion, American Society of Regional Anesthesia Annual Meeting, Philadelphia PA  
*"International Perspectives on Regional Anesthesia"*
- 1999 Feb Lecture, Symposium on Understanding Regional Anesthesia and Perioperative Pain Control, The American Society of Regional Anesthesia, Houston, TX  
*"Brachial Plexus Blockade"*
- 1999 Feb Workshop, Symposium on Understanding Regional Anesthesia and Perioperative Pain Control, The American Society of Regional Anesthesia, Houston, TX  
*"Upper Extremity Anesthesia"*
- 1998 Sept Lecture, Symposium on Understanding Regional Anesthesia and Perioperative Pain Control, The American Society of Regional Anesthesia, Rochester, NY  
*"Upper Extremity Blocks: Perioperative Applications"*
- 1998 Sept Workshop, Symposium on Understanding Regional Anesthesia and Perioperative Pain Control, The American Society of Regional Anesthesia, Rochester, NY  
*"Brachial Plexus Blocks"*
- 1998 May Lecture, American Society of Regional Anesthesia Annual Meeting, Seattle WA  
*"Recent Technological Advances in Regional Anesthesia and Pain Management"*
- 1998 May Workshop, American Society of Regional Anesthesia Annual Meeting, Seattle WA  
*"Combined Spinal Epidural Anesthesia"*
- 1996 Sept Lecture, Symposium on Regional Anesthesia in the perioperative period, The American Society of Regional Anesthesia, Cambridge, MA  
*"Thoracic Epidural Anesthesia for Chest and Upper Abdominal Surgery"*
- 1995 Sept Lecture, University of California, San Francisco Annual Refresher Course-Changing Practice of Anesthesia, San Francisco, CA  
*"Chronic Pain: Pharmacologic Options when Blocks Fail"*
- 1995 May Lecture, Symposium on Regional Anesthesia for Surgery, The American Society of Regional Anesthesia, Phoenix, Arizona  
*"Epidural Anesthesia"*

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- 1995 Mar Workshop, University of California, San Francisco Continuing Medical Education Course, San Francisco "*Fiberoptic Airway Management*"
- 1994 Nov Workshop, University of California, San Francisco, Continuing Medical Education Course, San Francisco, CA "*Fiberoptic Airway Management*"
- 1994 Oct Workshop, American Society of Anesthesiology Annual Meeting, San Francisco "*Interactive Video Workshop on Regional Anesthesia*"
- 1994 Aug Lecture, Symposium on Regional Anesthesia for Surgery, The American Society of Regional Anesthesia, Burlingame, CA "*Regional Anesthesia for Thoracic and Upper Abdominal Surgery*"
- 1994 Apr Workshop, The American Society of Regional Anesthesia meeting, Chicago "*Interpleural, Intercostal and Thoracic Sympathetic Block*"
- 1993 Sept Lecture, University of California, San Francisco Annual Refresher Course- Changing Practice of Anesthesia, San Francisco, CA, USA "*The Basics of Postoperative Epidural Pain Management*"

### **National Meetings**

- 2012 Feb 2<sup>nd</sup> Annual UBC Whistler Anesthesiology Summit, Whistler, Canada  
Lectures "*Advances in Ultrasound Guided Regional Anesthesia and Pain Medicine*" "*Perioperative Use of Ultrasound for Anesthesia*" "*Case Studies and Panel Discussion*"  
Workshop "*Ultrasound Regional Workshops*"
- 2010 Jun Canadian Anesthesiologists' Society 66<sup>th</sup> Annual Meeting, Toronto, Canada  
Lectures "*Increasing Use of Ultrasound in Anesthesia*" & "*Ultrasound Guided Regional Anesthesia- an Evidence Based Review*"
- 2010 May Department of Anesthesia, North York General Hospital, North York, Ontario  
Lecture "*How Regional Anesthesia Can Change Patient Care*"
- 2009 Nov CSTAR's Varkey Regional Anesthesia Update 2009, University of Western Ontario, London, Ontario  
Lectures "*Basics of Ultrasonography*" "*Interscalene Block*" "*Has Ultrasound Made a Difference to Outcome?*" & "*Spine Imaging*"  
Workshop "*Live Ultrasound Guided Nerve Block Demonstration*"
- 2009 Nov Mendelson Lecture, Anaesthetic Practice 2009 conference, University of Toronto, Toronto  
Lecture "*Renaissance of Regional Anesthesia*"
- 2008 Oct Third Pediatric Interventional Radiology Symposium, Toronto, Ontario  
Lecture "*Ultrasound Guided Nerve Blocks*"
- 2008 Sep 15<sup>th</sup> Annual Regional Anesthesia and Pain Medicine Conference, Continuing Medical Education, University of Toronto  
Lecture "*Recent Advances in Ultrasound Guided Nerve Blocks*"  
Workshop "*Intensive Upper Limb Workshop*" & "*Intensive Lower Limb Workshop*"

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- 2008 Sep University of Western Ontario, Cadaver Dissection and Ultrasound Workshop, London, Ontario
- 2008 July Ultrasound for Pain Medicine Workshop, Sunnybrook Health Science Center  
Lecture *"Principles of Ultrasound Guided Procedures"*  
Workshop *"Ultrasound Guided Blocks"*
- 2008 June Department of Interventional Radiology, Hospital for Sick Children, Toronto, Ontario, Canada  
Lecture *"Ultrasound Imaging for Pain Management"*
- 2008 June Canadian Anesthesiologists' Society 64<sup>th</sup> Annual Meeting, Halifax, Canada  
Workshop *"Advanced Cadaveric Ultrasound Blocks"*
- 2008 Feb 13<sup>th</sup> Annual Anesthesiology Winterlude Symposium on Perioperative Challenges and Controversies, University of Ottawa, Ottawa, Canada  
Lecture *"What's New in Regional Anesthesia"*  
Workshop *"Sonoanatomy"*
- 2007 Sep 14<sup>th</sup> Annual Regional Anesthesia and Pain Medicine Conference, Continuing Medical Education, University of Toronto  
Lecture *"Ultrasound Guided Regional Anesthesia- What is New?"*  
Workshop *"Intensive Upper Limb Workshop"*
- 2007 Feb The University Health Network Interdisciplinary Pain Conference, Toronto, Canada  
Lecture *"Emerging Practices in Regional Anaesthesia"*
- 2006 Dec The Varkey Continuous Catheter Regional Anesthesia and Anatomy Workshop  
Lectures *"Case Vignettes"* & *"Ultrasound for Vascular Access"*  
Workshops *"Pig Laboratory"*, *"Live Nerve Block Demonstration"* & *"Volunteer Scanning"*
- 2006 Sep 51<sup>st</sup> Annual Ontario Anesthesia Meeting, Burlington, Ontario  
Lecture *"Ultrasound Guidance: Changing the Course of Regional Anesthesia"*
- 2006 Sep 13<sup>th</sup> Annual Regional Anesthesia and Pain Medicine Conference, Continuing Medical Education, University of Toronto  
Workshop *"Intensive Ultrasound"* & *"Intensive Upper Limb Workshop"*
- 2006 June Canadian Anesthesiologists' Society 62<sup>nd</sup> Annual Meeting, Toronto, Canada  
Lecture *"Update on Using Ultrasound"*  
Workshop *"Comprehensive thoracic epidural and upper/lower extremity blocks using nerve stimulation and ultrasound techniques – a hands-on workshop"*  
Workshop *"Lower extremity blocks using nerve stimulation and ultrasound- a hands-on workshop"*
- 2006 Apr The Toronto Anesthesia Symposium 2006, Toronto  
Lecture *"Ultrasound for Regional Anesthesia"*
- 2005 Dec The Varkey Continuous Catheter Regional Anesthesia and Anatomy Workshop, University of Western Ontario, London, Ontario  
Lecture *"Ultrasound Imaging for Regional Anesthesia and Vascular Access"*  
Workshop *"Pig Lab"*
- 2005 Nov North York General Hospital, Department of Anesthesia, North York, Ontario  
Lecture *"Ultrasound for Regional Anesthesia and Vascular Access"*

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- 2005 Sept 12<sup>th</sup> Annual Regional Anesthesia and Pain Medicine Conference, Continuing Medical Education, University of Toronto  
Lecture *"Peripheral Stimulating Catheters" "Avoiding Neurologic Injury- the Role of Ultrasound Imaging"*  
Workshop *"Intensive Ultrasound"*
- 2005 Jun Canadian Anesthesiologists' Society 61<sup>st</sup> Annual Meeting, Vancouver, Canada  
Lecture *"Multimodal Pain Therapy to Aid Surgical Rehabilitation: Regional Analgesic Considerations"*  
Workshop *"Ultrasound Guided Nerve Block"*  
Panelist *"The Art and Science of Ultrasonographic Guided Regional Anesthesia"*, *"Thoracic Epidural Placement Made Easy"*
- 2005 May Southlake Regional Health Centre, Queensville Lecture Series, Newmarket, Ontario  
Lecture *"Ultrasound Imaging for Regional Anesthesia"*
- 2004 Dec The Varkey Continuous Catheter Regional Anesthesia and Anatomy Workshop, London, Ontario  
Lectures *"Ultrasound Imaging: Case Vignettes"*, *"Ultrasound Guided Vascular Access"*  
Workshop *"Pig Lab Demonstration"*
- 2004 Nov Anaesthetic Practice 2004, University of Toronto, Toronto, Ontario  
Workshop *"Ultrasound Imaging for Regional Anesthesia"*
- 2004 Oct University of Western Ontario  
Lecture *"Basics of Ultrasound Guided Blocks"*  
Workshop *"Ultrasound Guided Brachial Plexus Blocks"*
- 2004 Jun Canadian Anesthesiologists' Society 60<sup>th</sup> Annual Meeting, Quebec City, Quebec  
Moderator, "Applying Ultrasound Technology in Anesthesia" Symposium  
Lecture *"Ultrasound For Line Placement"*
- 2004 May 45<sup>th</sup> Annual McGill Anesthesia Update, Montreal, Quebec  
Lectures *"Regional Anesthesia for Day Surgery"*, *"Continuous Peripheral Blockade"*  
Workshop *"Ultrasound in Regional Anesthesia"*
- 2003 Oct Department of Anesthesia, William Osler Health Center, Brampton, Ontario, Canada  
Lecture *"Managing Pain with Opioids"*
- 2003 Sep The Third Princess Margaret Hospital Conference: New Developments in Cancer Management, Toronto, Ontario  
Lecture *"Intraspinal Analgesia: What Every Oncologist Should Know"*
- 2003 Sep 10<sup>th</sup> Annual Regional Anesthesia and Pain Medicine Conference, Continuing Medical Education, University of Toronto  
Lecture *"Ultrasound Imaging for Peripheral Nerve Blocks"*  
Workshop *"Inter-Sternocleidomastoid Block"*
- 2003 June Canadian Anesthesiologists' Society 59<sup>th</sup> Annual Meeting, Ottawa, Ontario  
Workshop *"Ultrasound and Regional Techniques"*
- 2003 Mar 13<sup>th</sup> Annual Hospice Palliative Care Conference, Toronto, Canada

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- 2003 Jan Workshop "*Management of Malignant Pain: Anesthesiologist's Perspectives*"  
The Toronto Chapter of Oncology Nurses Group, Toronto, Canada  
Lecture "*Anesthetic Interventions For Cancer Pain*"
- 2002 Sep 9<sup>th</sup> Annual Regional Anesthesia and Pain Medicine Conference, Continuing  
Medical Education, University of Toronto  
Lecture "*New Nonsteroidal Anti-inflammatory Drugs*"  
Workshop "*Inter-Sternocleidomastoid and Infraclavicular Brachial Plexus  
Blocks*"
- 2002 Apr Update in General Surgery 2002, 42<sup>nd</sup> Annual Course for Practising Surgeons,  
University of Toronto, Toronto, Ontario  
Lecture "*Epidural Anesthesia versus the Pain Pump*"
- 2002 Feb Winterlude Symposium "Controversies in Anesthetic Practice"  
University of Ottawa, Ottawa, Ontario  
Lecture "*What Is The Best Local Anesthetic For Acute Pain Management?*"
- 2002 Feb Workshops, Second Annual Mont Tremblant Anesthesia Meeting,  
Quebec  
"*Blocks for Arm Surgery*"  
"*Blocks for Leg Surgery*"
- 2001 Dec Lecture, Anaesthetic Practice 2001, Focus on Patient Safety, University of  
Toronto, Toronto, Ontario  
"*Treatment of Postdural Puncture Headaches*"
- 2001 Nov Lecture and Workshops, The Varkey Continuous Catheter Regional Anesthesia &  
Anatomy Workshop, London Health Sciences Centre, London, Ontario  
"*How to Set Up Ambulatory Regional Anesthesia Service*"  
"*Intersternocleidomastoid Block*"  
"*Sciatic Block: Labat's Approach*"
- 2001 Sept Lecture, 8<sup>th</sup> Annual Regional Anesthesia and Pain Medicine Conference,  
Continuing Medical Education, University of Toronto  
"*New Local Anesthetics*"
- 2001 May Lecture, Windsor Regional Hospital, Western Campus, Windsor, Ontario, Canada  
"*Management of Epidural/Spinal Catheter For Cancer Pain*"
- 2001 May Lecture, The Hospice of Windsor, Inc., Windsor, Ontario, Canada  
"*Management of Epidural/Spinal Catheter For Cancer Pain*"
- 2001 May Lecture, Markham-Stouffville Hospital, Department of Anesthesia, Ontario,  
Canada  
"*Continuous Catheter Techniques for Ambulatory Anesthesia*"
- 2001 Mar Lecture, Department of Anesthesia, St. Joseph's Health Centre, Ontario, Canada  
"*Continuous Peripheral Nerve Catheter and Infusion*"
- 2001 Mar Lecture, Surgical Services Rounds, University Health Network, Toronto, Canada  
"*Pain Management at UHN: An Update*"
- 2000 Oct Workshop, 7<sup>th</sup> Annual Regional Anesthesia and Pain Medicine Conference,  
Continuing Medical Education, University of Toronto  
"*Brachial Plexus Blocks Above the Clavicle*"



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- 2000 Oct Lecture, Neuroscience Rounds, Toronto Western Hospital, University Health Network “*Analgesic Care for Patients After Major Spinal Surgery*”
- 2000 Oct Workshop, 7<sup>th</sup> Annual Pain and Symptom Management Conference, Continuing Medical Education, University of Toronto  
“*Management of Epidural Catheters in Home / Hospital Setting*”
- 2000 Sept Lecture, 7<sup>th</sup> Annual Regional Anesthesia and Pain Medicine Conference, Continuing Medical Education, University of Toronto  
“*Treatment of Postdural Puncture Headache*”
- 2000 June Lecture, Ambulatory Anesthesia 2000, Montreal, Canada  
“*Why is Regional Anesthesia the Best for Ambulatory Anesthesia?*”
- 2000 Apr Lecture, Department of Anesthesia, William Osler Health Center, Brampton, Ontario, Canada  
“*How to set up an Acute Pain Service*”
- 2000 Mar Lecture, Palliative Care Grand Rounds, The Temmy Latner Centre for Palliative Care and the Hospice Palliative Care NETwrok Project, Toronto, Ontario  
“*Anaesthetic Interventions in Cancer Pain Management*”
- 2000 Mar Lecture, Toronto Vascular Surgery Symposium, Toronto, Ontario  
“*Are there significant benefits to epidural anesthesia for elective vascular surgery?*”
- 1999 Oct Workshop, Regional Anesthesia and Analgesia '99 Conference, Continuing Medical Education, University of Toronto  
“*Psoas Compartment and 3-in-1 Blocks*”
- 1999 Oct Lecture, Grand Round, Department of Anesthesia, Royal Columbian Hospital, British Columbia  
“*Recent Advances in Regional Anesthesia*”
- 1999 May Lecture, Seventeenth Annual Can-Am Clinical Anaesthesia Conference, Niagara-On-The-Lake, Ontario  
“*What’s New in Spinal Anesthesia*”
- 1999 May Panel Discussion, Seventeenth Annual Can-Am Clinical Anaesthesia Conference, Niagara-On-The-Lake, Ontario  
“*Controversies in Ambulatory Anesthesia*”
- 1999 May Lecture, McGill Anaesthesia Update '99, Montreal, Quebec  
“*What’s New in Spinal Anaesthesia*”
- 1999 May Lecture, McGill Anaesthesia Update '99, Montreal, Quebec  
“*Managing Thoracic Epidurals*”
- 1999 Apr Lecture, Victoria Order of Nursing Canada, Markham, Ontario  
“*Epidural Analgesia*”
- 1999 Apr Lecture, North York General Hospital Department of Anesthesia Round  
“*Patient Controlled Epidural Analgesia*”
- 1999 Mar Lecture, The Toronto Anaesthesia Symposium, Toronto, Ontario  
“*Update on Local Anesthetic Pharmacology*”
- 1998 Nov Lecture, Anaesthetic Practice '98, Continuing Medical Education, University of Toronto  
“*Lidocaine Spinals– Why the Bad Rap?*”

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- 1998 Nov Problem Based Learning Workshop, Anaesthetic Practice '98, Continuing Medical Education, University of Toronto "*Trouble Shooting in Regional Anaesthesia*"
- 1998 Oct Lecture, Regional Anesthesia and Analgesia '98 Conference, Continuing Medical Education, University of Toronto "*Patient Controlled Epidural Analgesia*"
- 1998 Oct Lecture, Regional Anesthesia and Analgesia '98 Conference, Continuing Medical Education, University of Toronto "*Spinal Anesthesia in Outpatients*"
- 1998 Oct Workshop, Regional Anesthesia and Analgesia '98 Conference, Continuing Medical Education, University of Toronto "*Intercostal and Suprascapular Nerve Blocks*"
- 1998 Oct Lecture, 13<sup>th</sup> Annual Ontario Peri-Anaesthesia Nurses Association Conference "*Patient Controlled Epidural Analgesia*"
- 1998 June Refresher Course Lecture, Canadian Anesthetists' Society Annual Meeting, Toronto "*Recent Advances in Regional Anesthesia and Pain Management*"
- 1998 June Workshop, Canadian Anesthetists' Society Annual Meeting, Toronto, "*Upper Extremity Brachial Plexus Block*"
- 1998 June Workshop, Canadian Anesthetists' Society Annual Meeting, Toronto "*How to Set-up a Regional Anaesthesia Program*"
- 1997 Sept Lecture, Regional Anesthesia and Analgesia '97 Conference, Continuing Medical Education, University of Toronto "*Intravenous Regional Anesthesia*"
- 1997 Sept Workshop, Regional Anesthesia and Analgesia '97 Conference, Continuing Medical Education, University of Toronto "*Use of Nerve Stimulator and IV Regional Anesthesia*"
- 1997 Apr Workshop, Toronto Anaesthesia Symposium, Toronto "*Peripheral Nerve Blocks*"
- 1997 Mar Lecture, Academy of Medicine, Toronto, Canada "*The Changing Practice of Regional Anesthesia*"
- 1996 Oct Lecture, Anesthesia Round, North York General Hospital, North York, Canada "*What's New in Spinal Anesthesia*"
- 1996 Oct Lecture, Anesthesia Round, Women's College Hospital, University of Toronto, "*Interscalene Brachial Plexus Block for Shoulder Surgery*"
- 1996 Oct Lecture, Toronto Critical Care Medicine & Trauma Symposium, Toronto "*Regional Analgesia in the ICU*"
- 1996 Sept Lecture, Regional Anesthesia '96 Conference, Continuing Medical Education, University of Toronto "*What's New in Spinal Anesthesia*"
- 1996 Sept Workshop, Regional Anesthesia '96 Conference, Continuing Medical Education, University of Toronto "*Thoracic or Lumbar Epidural?*"
- 1996 Sept Workshop, Regional Anesthesia '96 Conference, Continuing Medical Education, University of Toronto "*Thoracic Epidural Anesthesia*"
- 1996 June Workshop, Ontario Medical Association/Canadian Anesthetists' Society Annual Meeting, Windsor, Canada "*Lower Extremity Block*"
- 1996 June Lecture, Case Discussion, Canadian Anesthetists' Society Annual Meeting, Montreal "*Reflex Sympathetic Dystrophy*"
- 1996 June Workshop, Canadian Anesthetists' Society Annual Meeting, Montreal, Canada "*Upper Extremity Block*"

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- 1993 Oct Lecture, Anesthesia Round, Naval Hospital, Oakland, California, USA  
*"Continuous Spinal Anesthesia"*
- 1993 Oct Lecture, Anesthesia Round, Naval Hospital, Oakland, CA, USA  
*"Current Controversies In The Efficacy of Postoperative Epidural Analgesia"*
- 1991 Oct Lecture, Anaesthesia Round, York County Hospital, Newmarket, Canada  
*"Patient Controlled Analgesia"*
- 1991 May Lecture, Anaesthesia Rounds, Telemedicine Canada, Continuing Medical Education, University of Toronto, *"Management of Postoperative Pain "*
- 1990 March Lecture, Anaesthesia Round, Women's College Hospital, Toronto  
*"Acute Pain Management by a Postoperative Pain Service."*