#### **Curriculum Vitae**

#### State University of New York at Stony Brook Department of Anesthesiology Health Science Center, Level 4, Room 4-060 Stony Brook, New York 11794-8480

Name:	Tong Joo (TJ) Gan, MD, MBA, MHS, FRCA (UK), FRCA (Ire), Lic. Ac.
Date and place of Birth:	February 14, 1961, Malaysia
Office Phone Number: (631)	444-2979
Office Email:	Tong.Gan@stonybrookmedicine.edu

#### **Higher Education**

(Including internship, residency and other format professional training)

<u>From</u>	<u>To</u>	Degree & Date	Institu	ution & Location	<b>Field</b>
1981	1987	M.B., B.S.	1987	The London Hospital Medical College University of London	Medicine

#### **Certifications & Licensure**

(ECFMG, FLEX, National & Professional Boards & Licenses)

#### Date Agency

**Dates** 

- 1992 Fellow of the Faculty of Anaesthetists, Royal College of Surgeon of Ireland
- 1992 Fellow of the Royal College of Anaesthetists of England
- 1993 Licentiate in Acupuncture, British College of Acupuncture
- 1994 Diplomate, USMLE
- 1997 Diplomate, American Board of Anesthesiology
- 2009 MHS, Masters, Clinical Research, Duke University
- 2009 MD (UK), Univ. of London (postgraduate)
- 2009 Recertification for American Board of Anesthesiology, November, 2009
- 2017 MBA, University of Massachusetts, Amherst, MA

Medical Licensure:	State of North Carolina – 9300635
	State of New York - 277514

#### **Appointments**

(Academic Appointments)

<u>From</u>	<u>To</u>	<u>Title</u>	<u>Status*</u>	Institution & Location
Feb.1987	Jan. 1987	House Officer Cardio-thoracic and	Vascular SurgeryLondo	The London Hospital
Aug.1987	Jan. 1988	House Officer		Internal Medicine Old Church Hospital Romford, Essex, England

Feb. 1988	July 1988	Senior House Officer Accident and Emergency Department Londo	The London Hospital
Aug. 1988	July 1989	Senior House Officer Department of Anesthesia	The London Hospital London
Aug. 1989	Aug. 1990	Senior House Officer Department of Intensive Care Londo	The Middlesex Hospital
Sept. 1990	Aug. 1991	Anesthetic Registrar	The Whittington and The Royal Northern Hospital, London
Sept. 1991	Aug. 1992	Anesthetic Registrar	The Middlesex Hospital London
March 1992	Aug. 1992	Anesthetic Registrar	University College Hospital London
Sept. 1992	Feb. 1993	Anesthetic Registrar	Royal National Orthopaedic Hospital, Middlesex
March 1993	Aug. 1993	Anesthetic Senior Registrar	Royal Brompton Heart and Lung Hospital, London Royal Free Hospital, London
Aug. 1993	Aug. 1994	Anesthesiology Fellow	Duke University Medical Center Durham, NC, USA
Sept. 1993	Aug. 1994	Associate in Anesthesiology	Duke University Medical Center, Durham, NC, USA
Aug. 1994	March 1999	Assistant Professor of AnesthesiologyDuke	University Medical Center, Durham, NC, USA
April 1999	Aug. 2003	Associate Professor of Anesthesiology	Duke University Medical Center, Durham, NC, USA
Nov. 2001	Aug. 2014	Senior Research Fellow	Duke Center for Integrative Medicine
Sept. 2004	Aug. 2014	Professor of Anesthesiology with tenure	Duke University Medical Center, Durham, NC, USA
June 2007	Aug. 2014	Professor of Anesthesiology Vice-Chairman, Clinical Research and Faculty Development	Duke University Medical Center, Durham, NC, USA

May 2013	Aug. 2014	Associate Professor in Surgery	Duke University Medical Center, Durham, NC, USA
Sept. 2014	Present	Stony Brook School of Medicine Professor and Chairman Professor – Biomedical Informatics	Stony Brook University Medical Center Stony Brook, NY
<b>A A A A A A A A A A</b>			

Status: Voluntary (V) Salaried (S) Tenured (T)

## **Other Appointments** (Non-Academic)

<u>From</u>	<u>To</u>	Title	<u>Status*</u>	<b>Institution &amp; Location</b>

#### Leadership Role:

Dates

Department IRB Representative (1996-2014) Medical Director, Peri Anesthetic Care Unit (1999-2007) Director, Clinical Research (2000-2008) Founding Medical Director, Duke Clinical Anesthesia Research Endeavor (CARE) (2006-2008) Vice-Chairman, Clinical Research (2007-2014) Vice Chairman, Faculty Development (2009-2014) Chairman, Department Appointment, Promotion and Tenure Committee (2010-2014)

#### **Committees:**

#### **National**:

Dates	
From	

<u>From</u>	<u>To</u>	<u>Title</u>	<u>Status*</u>	Institution &
American Soci	etv of Anesthes	iologists (ASA):		<b>Location</b>
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2003	2017	Committee on Standards & Practice Parameters, Am. Soc. Of Anesthesiologists
2003	Present	Committee on Refresher Courses, American Society of Anesthesiologists
2005		Committee on Scientific Papers, American Society of Anesthesiologists
2005	2006	Secretary, Society of Ambulatory Anesthesia
2006	2007	Scientific Advisory Committee, American Society of Anesthesiologists
2006	2007	Committee on Practice Management, American Society of
		Anesthesiologists
2007	2008	Ex-Officio member Scientific Content Subcommittee on Ambulatory
		Anesthesia, American Society of Anesthesiologists
2009		Committee on Anesthesia Subspecialities, American Society of
		Anesthesiologists
2008	2009	Committee on Anesthesia Subspecialities, ASA
2008	2012	Committee on Quality Management & Departmental Administration, ASA
2008	2001	Committee on Ambulatory Surgical Care, American Society of
		Anesthesiologists
2008	2014	Educational Track Subcommittee on Ambulatory Anesthesia, ASA
2010		Committee on Droperidol, ASA

2011		Adjunct member, Committee on Quality Management & Developmental Administration
Oct. 2013	Oct. 2014	Abstract Review Subcommittee on Outcomes and Database Research
2014	2015	Standards and Practice Parameters
2014	2015	Committee on Performance and Outcomes Management
2016	2017	Committee on Performance and Outcomes Measurement ASA
Oct. 2015	Oct. 2016	Abstract Review Subcommittee on Outcomes and Database Research
Oct. 2015	Oct. 2016	Abstract Review Subcommittee on Standards and Practice Parameters
Oct. 2015	Oct. 2016	Abstract Review Subcommittee on Performance and Outcomes
Oct. 2015	Oct. 2016	Educational Track Subcommittee on Ambulatory Anesthesia
Oct. 2016	Oct. 2017	Educational Track Subcommittee on Ambulatory Anesthesia

# American Society for Enhanced Recovery (ASER)

2015 Present President and Founder

# International Society of Anesthetic Pharmacology (ISAP):

2002	Present	Board of Directors, International Society of Anesthetic Pharmacology
2003		Treasurer, International Society of Anesthetic Pharmacology
2007	2008	President, International Society of Anesthetic Pharmacology
2008	2009	Immediate Past President, International Soc. of Anesthetic Pharmacology

# Society for Ambulatory Anesthesia (SAMBA):

2000	Present	Committee for International Relations, SAMBA
2001	Present	Chair, Committee for Research, SAMBA
2002	Present	Board of Directors, SAMBA
2003		Committee on Electronic Newsletter, SAMBA
2003	Present	Committee on Development, SAMBA
2004	2005	Judicial Committee, SAMBA
2004	2005	Committee on Latin American Relations, SAMBA
2004	2005	Subcommittee on Scientific papers, SAMBA
2005		Ad Hoc Committee on Focused Topics, SAMBA
2005	2006	Task Force on Web Products, SAMBA
2005	2006	Committee on Finance & Budget, SAMBA
2005	2006	Executive Committee, SAMBA
2006	2007	Chair, Subcommittee on Ambulatory and Geriatric Anesthesia, SAMBA
2006	2007	Ex-Officio member Committee on Development, SAMBA
2006	2007	Ex-Officio member Committee on Scientific Papers, SAMBA
2006	2007	Ex-Officio member Committee on Finance, SAMBA
2006	2007	Ex-Officio member Committee on Mid-Year Meeting, SAMBA
2006	2007	Vice President, SAMBA
2006	2007	Ad Hoc Committee on Corporate Relations, SAMBA
2006	2007	Committee on Bylaws, SAMBA
2006	2007	Nominating Committee, SAMBA
2006	2007	Task Force on Benchmarking Project, SAMBA
2007		Chair, Committee for Annual Meeting, SAMBA
2007	2008	President Elect, SAMBA

20082009President, SAMBA20092010Chair, Committee on Nominations, SAMBA20092010Chair, Committee on Communications Oversight, SAMBA20142015Committee on Development20142015Task Force on Performance and Outcomes Management20142015SAMBA Board of Directors2015PresentSAMBA Task Force on Clinical Practice Guidelines	2008		Subcommittee on Ambulatory and Geriatric Anesthesia, SAMBA
20092010Chair, Committee on Communications Oversight, SAMBA20142015Committee on Development20142015Task Force on Performance and Outcomes Management20142015SAMBA Board of Directors	2008	2009	President, SAMBA
20142015Committee on Development20142015Task Force on Performance and Outcomes Management20142015SAMBA Board of Directors	2009	2010	Chair, Committee on Nominations, SAMBA
20142015Task Force on Performance and Outcomes Management20142015SAMBA Board of Directors	2009	2010	Chair, Committee on Communications Oversight, SAMBA
2014 2015 SAMBA Board of Directors	2014	2015	Committee on Development
	2014	2015	Task Force on Performance and Outcomes Management
2015 Present SAMBA Task Force on Clinical Practice Guidelines	2014	2015	SAMBA Board of Directors
2015 Tresent SAWDA Task Toree on Chinear Tractice Outdemices	2015	Present	SAMBA Task Force on Clinical Practice Guidelines

## State:

North Carolina Alternate Delegate for the ASA (2003) North Carolina Society of Anesthesiologists Legislative Committee (2006)

## Awards:

Young Investigator Award 1995. International Anesthesia Research Society (IARS) Clinical Scholar Research Award 1998. Society for Technology for Anesthesia Annual Innovative Award 2002

# Professional Practice & ServicesDate of InitialOrganizationLocationMembership

<b>Organization</b>	<u>Professional and Scientific Societies</u> <u>Dates of Initial Membership</u>	Leadership Position(s)

<b>Professional Membership:</b>	American Society of Anesthesiologists
	International Anesthesia Research Society
	Society of Ambulatory Anesthesia
	Anesthetic Research Society, United Kingdom
	American University of Anesthesiologists
	International Society of Anesthetic Pharmacology
	Fellow of the International Chinese Academy of Anesthesiology
	American Society for Enhanced Recovery

## **University/Medical Center:**

Divers Alert Network (1994-1998) Advanced Cardiac Life Support (Instructor) (1994-2002) Senior Departmental Representative, Institutional Review Board (1995-2016) Hospital Wide Infusion Pump Selection Committee (2001) PACU flow Improvement Task Force (2001-2002) Perioperative Improvement Committee (2001-2002) MS3 Mentor (2003–2014) DCRI Faculty Member (2004–2014)

## **Journal Editorial Board**

Executive Section Editor, Anesthesia & Analgesia Clinical Research The Open Anesthesiology Journal Current Anesthesiology Reports Perioperative Medicine Current Opinion in Anesthesiology

## **Guest Editor**

International Anesthesiology Clinics Postoperative Nausea and Vomiting (Autumn 2003 issue) Anesthesiology Clinics of North America Ambulatory Anesthesia (Summer 2003 issue) Current Opinion in Anesthesiology – Drugs in Anesthesia (2015 issue)

#### **Guest Journal Reviewer**

Journal of Clinical Anesthesia	1995 to present
Pharmacoeconomics	1995 to present
Anesthesiology	1997 to present
New England Journal of Medicine	1999 to present
Alternative Therapies in Health and Medicine	e 2000 to present
JAMA	2000 to present
Circulation	2002 to present
Drugs	2003 to present

## **Peer Reviewed Manuscripts:**

- 1. **Gan TJ**, Miller RF, Webb AR, Russell RCG. Phaeochromocytoma presenting as recurrent hyperamylasemia and multiple organ failure. Canadian Journal of Anaesthesia 1994;41:244-7.
- 2. **Gan TJ**, Collis R, Hetreed M. Double-blind comparison of ondansetron, droperidol and saline in the prevention of postoperative nausea and vomiting after major orthopedic surgery. Br J of Anaesth 1994;72: 544-7.
- 3. **Gan TJ**, Alexander R, Fennelly M and Rubin AP. Comparison of different methods of administering droperidol in patient-controlled analgesia in the prevention of postoperative nausea. Anesth Analg 1995;80:81-85.
- 4. **Gan TJ**, Glass PSA. Pharmacokinetic and pharmacodynamic aspects of intravenous anesthesia. Anesthetic Pharmacology Review. 1995;3:28-36.
- 5. **Gan TJ**, Quill TJ, Pressley C, Parrillo S, Glass PSA. A comparison of mivacurium dosage requirements during isoflurane and desflurane anesthesia. J Clin Anesth 1996;8:301-306.

- 6. **Gan TJ**, Ginsberg B, Grant AP, Glass PSA. Double-blind, randomized comparison of ondansetron and intraoperative propofol to prevent postoperative nausea and vomiting. Anesthesiology 1996;85:1036-1042.
- 7. Lubarsky DA, Glass PS, Ginsberg B, Dear GL, Dentz ME, Gan TJ, Sanderson IC, Mythen MG, Dufore S, Pressley C, Gilbert WC, White WD, Alexander ML, Coleman RL, Rogers M, Reves JG and the SWiPE group. The successful implementation of pharmaceutical practice guidelines: Analysis of associated outcomes and cost savings. Anesthesiology 1997;86:1018-1019.
- 8. Glass PSA, Howell SH, **Gan TJ**, Ginsberg B. How to manage drug interactions. European Journal of Anaesthesiology 1997;14:33-39.
- 9. **Gan TJ**, Ginsberg B, Glass PSA, Fortney J, Jhaveri R, Perno R, Opioid sparing effects of low dose infusion of naloxone in patient administered morphine sulfate. Anesthesiology 1997;87: 1075-81.
- 10. **Gan TJ**, Glass PSA, Howell ST, Canada A, Grant AP, Ginsberg B. Determination of plasma concentrations of propofol associated with 50% reduction in postoperative nausea. Anesthesiology 1997;87: 779-84.
- 11. **Gan TJ**, Glass PSA, Winsor A, Payne F, Rosow C, Sebel P, Manberg P. Bispectral index (BIS) monitoring allows faster emergence and improved recovery from propofol / alfentanil / nitrous oxide anesthesia. Anesthesiology 1997;87:808-15.
- 12. Fabling JM, **Gan TJ**, Guy J, Borel C, Warner D. Postoperative nausea and vomiting: A retrospective analysis in patients undergoing elective craniotomy. Journal of Neurosurgical Anesthesia 1997;9:308-12.
- 13. Glass PSA, **Gan TJ**, Howell SH, Ginsberg B. Drug interactions: volatile anesthetics and opioids. J Clin Anesth 1997;9:18-22.
- Fortney J, Gan TJ, Graczyk S, Wetchler B, Melson T, Khalil S, McKenize R, Parrillo S, Glass PSA, Moote C, Wermeling D, Parasuraman TV, Duncan B, Creed M, S3a-409 AND s3a-410 Study Groups. A comparison of the Efficacy, Safety and Patient Satisfaction of Ondansetron Versus Droperidol as Antiemetics for Elective Outpatient Surgical Procedures. Anesth Analg. 1998;84: 731-8.
- 15. Chari RS, **Gan TJ**, Robertson KM, Greig PD, Clavien PA. Veno-venous by-pass in orthotopic liver transplantation: routine or selective use. J Am Coll Surg. 1998;186:683-90.
- 16. Iselin-Chaves I, Glass PSA, Sebel PS, Flaishon R, Howell S, **Gan TJ**, Sigl J, Ginsberg B. The effect of the interaction of propofol and alfentanil on recall, loss of consciousness and the bispectral index. Anesth Analg 1998; 87:949-955.
- 17. Glass PSA, **Gan TJ**, Howell SH. Remifentanil: A review of its pharmacokinetics and pharmacodynamics. Anesth Analg 1999;89:S7-S14.
- 18. **Gan TJ**, Bennett-Guerrero E, Phillips-Bute B, Wakeling H, Moskowitz DM, Olefulabi Y, Konstadt SN, Bradford C, Glass PSA, Machin SJ, Mythen MG and the Hextend study group. Hextend, a

physiologically balanced plasma expander for large volume use in major surgery: A randomized phase III clinical trial. Anesth Analg 1999;88: 992-8.

- 19. **Gan TJ**, Glass PSA, Sigl J, Sebel P, Payne F, Rosow C, Embree P. Women emerge from general anesthesia faster than men. Anesthesiology 1999;90:1283-7.
- 20. **Gan TJ**, El-Molem H, Ray J, Glass PSA. Patient-controlled antiemesis. Anesthesiology 1999;90:1564-1570.
- 21. Fleming NW, Chung F, Glass PSA, Kitts JB, Kirkegaard-Nielsen H, Gronert GA, Chan V, **Gan TJ**, Cicutti N, Caldwell JE. Comparison of the intubation conditions provided by rapacuronium (ORG 9487) or succinylcholine, in humans during anesthesia with fentanyl, and propofol. Anesthesiology 1999;91: 1311-7.
- 22. Soppitt AJ, **Gan TJ**, Sanderson I, Weatherwax K, Glass PSA. Duration and recovery profile of cisatracurium after succinylcholine during propofol and isoflurane anesthesia. J Clin Anesth 1999;11: 652-56.
- 23. Hill RP, Lubarsky DA, Phillips-Bute B, Fortney J, Creed M, Glass PSA, **Gan TJ**. Cost effectiveness of prophylactic antiemetic therapy with ondansetron, droperidol or placebo. Anesthesiology 2000;92: 958-67.
- 24. Fabling, JM, **Gan TJ**, El-Moalem H, Warner DS, Borel CO. A randomized, double-blind comparison of ondansetron, droperidol and placebo for prevention of postoperative nausea and vomiting after supratentorial craniotomy. Anesth Analg 2000;91:358-61.
- 25. Klein SM, Slaughter TF, Vail PT, Ginsberg B, El-Moalem HE, Alexander R, D'Ercole F, Greengrass R, Perumal T, Welsby I, Gan, TJ. Thromboelastography as a perioperative measure of anticoagulation resulting from low molecular weight heparin. Anesth Analg 2000;91:1091-5.
- 26. Soppitt AJ, Glass PSA, Howell S, Weatherwax K, **Gan TJ**. The use of propofol for its antiemetic effect: a survey of clinical practice in the United States. J Clin Anesth 2000;12:265-269.
- 27. Ginsberg B, Martin G, **Gan TJ**, Grichnik K, Jhaveri R, Siebert K, Sullivan F, Muir M, Glass PSA. Assessment of the relative clinical utility of sufentanil and morphine administered by patient controlled analgesia pumps following abdominal hysterectomy. J Pharmacuetical Care in Pain & Symptom Control 2001;8:1-13.
- 28. Iselin-Chaves I, El Moalem H, **Gan TJ**, Ginsberg B, Glass PSA. Changes in the auditory evoked potentials and the bispectral index following propofol or propofol and alfentanil. Anesthesiology 2000;92; 1300-1310.
- 29. **Gan TJ**, Sloan F, Dear G, El-Moalem H, Lubarsky DA. How much are patients willing to pay for avoidance of postoperative nausea and vomiting? Anesth Analg. 2001;92:393-400.
- 30. **Gan TJ**, Madan R, Alexander R, Jhaveri R, El-Moalem H, Weatherwax K, Glass PSA. Duration of action of vecuronium following an intubating dose of rapacuronium, vecuronium or succinylcholine. Anesth Analg 2001;92:1199-202.

- 31. Dexter F, **Gan TJ**, Naguib M, Lubarsky D. Cost identification analysis for succinylcholine. Anesth Analg 2001;92:693-699.
- 32. Habib A, **Gan TJ**. Combination therapy for postoperative nausea and vomiting a more effective prophylaxis? Ambulatory Surgery 2001;9:59-71.
- 33. **Gan TJ**. Risk Assessment for the Management of Postoperative Nausea and Vomiting. Clinical Research 2001; 11:2-7.
- 34. Alexander R, Hill R, El-Moalem HE, **Gan TJ**. Remifentanil prevents the hemodynamic response to orotracheal intubation. J Applied Research 2001;1: 144-48.
- 35. Gan TJ. Postoperative nausea and vomiting: can it be eliminated? JAMA 2002;287:1233-36.
- 36. Wilkes N, Woolf R, Powanda M, **Gan TJ**, Machin S, Webb A, Mutch M, Bennett-Guerrero E, Mythen M. Hydroxyethyl starch in balanced electrolyte solution (Hextend®)-pharmacokinetic and pharmacodynamic profiles in healthy volunteers. Anesth Analg 2002; 94:538-544.
- 37. Alexander R, El-Moalem HE, **Gan TJ**. Comparison of the morphine sparing effects of diclofenac s sodium and ketorolac tromethamine after major orthopedic surgery. J Clin Anesth 2002; 14:187-92.
- 38. Schow A, Lubarsky D, Olson R, **Gan TJ**. Can succinylcholine be used safely in hyperkalemic patients? Anesth Analg 2002;95:119-122
- 39. **Gan TJ**, Franiak R, Reeves J. Comparison of ondansetron orally disintegrating tablet (ODT) versus placebo for the prevention of postdischarge nausea and vomiting following ambulatory surgery. Anesth Analg 2002; 94:1199-1200.
- 40. Moretti E, Robertson K, Tuttle-Newhall J, Clavien P, **Gan TJ**. Orthotopic liver transplant patients require less postoperative morphine than do patients undergoing hepatic resection. J Clin Anesth 2002; 14:416-420.
- 41. Martin G, Wakeling H, Bennett-Guerrero E, Mythen M, Robertson K, Kucmeroski D, **Gan TJ**. A prospective randomized comparison of thromboelastographic coagulation profile in patients receiving Hextend®, 6% hetastarch in saline or lactated ringer's during major surgery. J Cardiothoracic and Vascular Anesthesia 2002;16:441-446.
- 42. Fabling JM, **Gan TJ**, El-Moalem H, Warner DS, Borel CO. A Randomized, Double-Blinded Comparison of Ondansetron versus Placebo for Prevention of Nausea and Vomiting after Infratentorial Craniotomy. J Neuro Surg Anesth 2002;14:102-107.
- 43. Erb TO, Kanter RJ, Hall JM, **Gan TJ**, Kern FH, Schulman SR. Comparison of electrophysiologic effects of propofol and isoflurane-based anesthetics in children undergoing radiofrequency catheter ablation for supraventricular tachycardia. Anesthesiology 2002; 96: 1386-94.
- 44. Erb TO, Hall JM, Ing R, Kanter RJ, Kern FH, Schulman SR, **Gan TJ**. Postoperative Nausea and Vomiting in Children and Adolescents undergoing Radiofrequency Catheter Ablation: A Randomized Comparison of Propofol and Isoflurane based Anesthetics. Anesth Analg 2002; 95:1577-81.

- 45. **Gan TJ**, Soppitt A, Maroof M, El-Moalem, Robertson KM, Moretti E, Dwane P, Glass PSA and the Goal Directed Therapy Study Group. Goal directed intraoperative fluid administration reduces length of hospital stay after major surgery. Anesthesiology 2002; 97:820-6.
- 46. Moretti E, Robertson K, El-Moalem H, **Gan TJ**. Intraoperative colloid administration reduces postoperative nausea and vomiting and improves postoperative outcomes compared with crystalloid administration. Anesth Analg 2003;96:611-7.
- 47. **Gan TJ**, Ing R, Dear G, Wright D, El-Moalem H, Lubarsky D. How much are patients willing to pay to avoid intra-operative awareness? J Clin Anesthesia 2003;15:108-112.
- 48. Martin G, Glass PSA, Breslin DS, MacLeod DB, Sanderson IC, Lubarsky DA, Reves JG, **Gan TJ**. A study of anesthetic drug utilization in different age groups. J Clin Anesthesia 2003;15:194-200.
- 49. Habib A, **Gan TJ**. Pharmacotherapy of postoperative nausea and vomiting. Expert Opin. Pharmacother 2003;4:457-73.
- 50. Gan, TJ. Evidence-based management of post-operative nausea and vomiting. Can J Anesth 2003;50:R1-R4.
- 51. Shang A, **Gan TJ**. Optimizing postoperative pain management in the ambulatory patient. CNS Drugs 2003;63:855-867.
- 52. Apfelbaum J, Chen C, Mehta S, **Gan TJ**. Postoperative pain experience: results from a national survey suggest postoperative pain continues to be undermanaged. Anesth Analg 2003;97:534-40.
- 53. **Gan TJ**, Meyer T, Apfel CC, Chung F, Davis PJ, Eubanks S, Kovac A, Philip B, Sessler DI, Temo J, Tramer MR, Watcha M. Consensus guidelines for the management of postoperative nausea and vomiting. Anesth Analg 2003;97:62-71.
- 54. Habib AS, **Gan TJ**. Food and Drug Administration black box warning on the perioperative use of droperidol: a review of the cases. Anesth Analg 2003;96:1377-79.
- 55. Olson R, Schow A, McCann R, Lubarsky D, **Gan TJ**. Absence of adverse outcomes in hyperkalemic patients undergoing vascular access surgery. Can J Anesth 2003;50:553-557.
- 56. Moretti E, Robertson K, **Gan TJ**. The colloid crystalloid debate: Are we asking the right question? TATM 2003;5(4):378-391.
- 57. Joshi G, Viscusi E, **Gan TJ**, Minkowitz H, Cippolle M, Schuller R, Cheung R, Fort J. Effective treatment of laparoscopic cholecystectomy pain with intravenous followed by oral COX-2 specific inhibitor. Anesth Analg 2004;98:336-42.
- 58. Breslin D, Jiao K, Habib A, Schultz J, **Gan TJ**. Pharmacodynamic interactions between cisatracurium and rocuronium. Anesth Analg 2004;98:107-10.
- 50. **Gan TJ**, Joshi GP, Viscusi E, Cheung R, Dodge W, Fort J, Chen C. Preoperative parenteral parecoxib and follow-up oral valdecoxib reduces length of stay and improves quality patient recovery following laparoscopic cholecystectomy surgery. Anesth Analg 2004;98:1665-1673.

- 60. Habib A, El-Moalem H, **Gan TJ**. The efficacy of the 5-HT<sub>3</sub> receptor antagonists combined with droperidol for PONV prophylaxis is similar to their combination with dexamethasone. A metaanalysis of randomized controlled trials. Can J Anesth 2004;51:311-319. Accompanying editorial Tramer M. Rational control of PONV – the rule of three. Can J Anesth 2004;51:283-285.
- 61. Habib A, **Gan TJ**. Evidence-Based Management of Postoperative Nausea and Vomiting. Can J Anesth 2004;51:326-341. Accompanying editorial Tramer M. Rational control of PONV – the rule of three. Can J Anesth 2004;51:283-285.
- 62. Apfelbaum J, **Gan TJ**, Zhao S, Hanna DB, Chen C. Reliability and validity of the Perioperative opioid-related symptom distress scale. Anesth Analg 2004;99:699-709.
- 63. Habib A, **Gan TJ**. A Randomized Comparison of a Multimodal Management Strategy versus Combination Antiemetics for the Prevention of Postoperative Nausea and Vomiting. Anesth Analg 2004;99:77-81.
- 64. **Gan TJ**, Lubarsky D, Flood E, Thanh T, Mauskopf J, Mayne T, Chen C. Patient preferences for acute pain management. BJA 2004; 92:681-88.
- 65. Sebel P, Bowdle A, Ghoneim M, Rampil I, Padilla R, **Gan TJ**, Domino K. The Incidence of Awareness during Anesthesia: A Multicenter U.S. Study. Anesth Analg 2004;99:833-839.
- 66. **Gan TJ**, Jiao KR, Zenn M, Georgiade G. A randomized controlled comparison of electro-acupoint stimulation or ondansetron versus placebo for the prevention of postoperative nausea and vomiting. Anesth Analg 2004; 99:1070-5.
- 67. **Gan TJ**, Joshi G, Zhao S, Hanna D, Raymundo A, Cheung R, Chen C. Presurgical intravenous paracoxib sodium and follow-up oral valdecoxib for pain management after laparoscopic cholecystectomy surgery (LCS) reduces opioid requirements and opioid-related side effects. Acta Anesthesiol Scand 2004;48:1194-207.
- 68. Habib A, **Gan TJ**. The Effectiveness of Rescue Antiemetics Following Failure of Prophylaxis With Ondansetron, Droperidol or Placebo. J Clin Anesthesia 2005;17:62-65.
- 69. Grocott M, Mythen M, Gan TJ. Perioperative fluid management. Anesth Analg 2005;100:1093-1106.
- 70. **Gan TJ**. Selective serotonin 5-HT3 receptor antagonists for postoperative nausea and vomiting: are they all the same? CNS Drugs 2005;19:225-238.
- 71. Dahm P, Yang B, Salmen C, **Gan TJ**. Radical perineal prostatectomy for the treatment of localized prostate cancer in morbidly obese patients. J Urol 2005;174: 131-134.
- 72. D'Angelo R, Philip B, **Gan TJ**, Kovac A, Hantler C, Doblar D, Melson T, Minkowitz H, Falby P, Coop A. A randomized, double-blind, dose-ranging, pilot study of intravenous granisetron in the prevention of postoperative nausea and vomiting in patients undergoing abdominal hysterectomy. European Journal of Anaesthesiology 2005;22:774-779.
- 73. Gan TJ, Coop A, Philip B, and the Kytril Study Group. A randomized, double-blind study of

granisetron plus dexamethasone vs. ondansetron plus dexamethasone to prevent post-operative nausea and vomiting in patients undergoing abdominal hysterectomy. Anesth Analg 2005;101:1323-1329.

- 74. Barbeito A, Muir H, **Gan TJ**, Reynolds J, Spahn T, White W, Schultz J. Use of a modifier reduces Inconsistency in the ASA physical status classification system in parturients. Anesth Analg 2006;102:1231-3.
- 75. Welsby I, Jiao K, Ortel T, Brudney C, Roche A, Bennett-Guerrero E, **Gan TJ**. The kaolin-activated thromboelastograph predicts bleeding after cardiac surgery. J Cardiothoracic and Vasc Anesth 2006;20(4):531-5.
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- 35. Gan TJ. What We Can Do to Reduce Opioid Overuse. New York Times 2016 September 6.

## **Newspaper and Website Reports**

- 1. "Women wake up faster from anesthesia." www.allhealth.com/health/library/sexmatters.
- 2. "Study: Acupuncture helps ease post-surgical ills." http://www.msnbc.msn.com/id/6073055/(1 of 2) [9/25/04]
- 3. "Duke study: Acupuncture best for post-op nausea." http://www.heraldsun.com/durham/4-524660.html/(1 of 3) [9/22/04]
- 4. "Acupuncture moves toward the mainstream." http://www.nytimes.com/id/2004/09/28/health/policy/28acup.html [9/28/04]
- 5. "Acupuncture helps ease post-surgical ills." <u>http://www.reuters.com/newsArticle.jhtml?type</u> [9/22/04]

- 6. "Acpuncture helps post-surgery." <u>http://www.chronicle.duke.edu/vnews/display.v/ART/2004/10/21/4177a47d13b56?in\_archive</u>= 1 (1 of 2) [10/22/04]
- 7. "Acupuncture may lessen post-op pain, nausea." <u>http://my.webmd.com/content/article/94/102781</u> (1 of 4) [9/22/04]
- 8. "Better postoperative recovery." Bottom Line Health Newsletter. June 2005;Vol 19, No.6: pg.13
- 9. "Drug reduces post-op vomiting." http://today.reuters.com/news/nresArticle.aspx?ty...1827Z\_01\_KRA583877\_RTRUKOC\_0\_US-DRUG-VOMITING.xml (1 of 2) [10/26/05]

## **Funded Projects**

Principal Investigator

The role of propofol in postoperative nausea and vomiting.Funds:Society of Ambulatory AnesthesiaDates:6/1995-7/1996

A phase III, double-blind, randomized comparative study evaluating the effect of two doses of dexmedetomidine versus placebo in adult patients undergoing elective major abdominal surgery. Funds: Abbott

Dates: 11/1995-10/1996

Bispectral analysis for monitoring of anesthesia with isoflurane/fentanyl.

Funds: ASPECT

Dates: 10/1996-9/1997

A phase III, double-blind, randomized placebo-controlled study evaluating the safety and efficacy of dexmedetomidine when used as an anesthetic adjunct.

Funds: Abbott Dates: 10/1996-9/1997 Ondansetron vs. placebo for prevention of PONV after infratentorial neurosurgery.

Funds: Glaxo Wellcome, Inc.

Dates: 10/1996 – 10/1998

Comparison of outcome variables in patients having major surgeries with the use of oesophageal Doppler monitor. A pilot study.

 Funds:
 Deltex

 Dates:
 5/1997-9/1997

 A prospective randomized study on outcome variables in patients having major surgeries with the use of esophageal Doppler monitor.

 Funds:
 Deltex Inc

 Dates:
 1/1998-5/1999

Measurement of the anticoagulant effects of low-molecular weight heparin using thromboelastography.Funds:Rhone Poulenc RorerDates:1/1998-1/1999

The onset, duration and recovery profile of two small doses of cisatracurium during isoflurane or propofol anesthesia.

Funds:Glaxo WellcomeDates:9/1997-3/1998

The effect of intraoperative administration of Hextend<sup>™</sup> versus 6% hetastarch in saline for the treatment of hypovolemia during major surgery

 Funds:
 BioTime Inc.

 Dates:
 1/1997-10/1997

Postoperative morbidity questionnaire on patients receiving intraoperative Hextend<sup>TM</sup>, 6% hetastarch in saline and lactate Ringer's

 Funds:
 BioTime Inc.

 Dates:
 1/1997-10/1998

The effect of coagulation of Hextend<sup>TM</sup>, 6% hetastarch in saline and lactate Ringer's as measured by thromboelastography during major surgery.

 Funds:
 BioTime Inc.

 Dates:
 1/1997-10/1998

Comparison of ondansetron versus placebo in the prevention of postoperative nausea and vomiting after infracranial surgery.

Funds:Glaxo WellcomeDates:10/1997-1/1999

The pharmacokinetics and pharmacodynamics of cisatracurium during the preanhepatic, anhepatic and postanhepatic phase of orthotopic liver transplantation.

Funds: Glaxo Wellcome

Dates: 10/1997-1/1999

A phase III, randomized, controlled, open-label, multi-center, parallel, group study designed to evaluate the safety and efficacy of Poly SFH-P injection in the total elimination of allogeneic red cell transfusion.

Funds: Northfield Laboratories, Inc.

Dates: 7/1998-present

An open evaluation of safety and efficacy of E-TRANS<sup>TM</sup> (fentanyl) for management of postoperative pain in elderly patients.

Funds:	Alza Corporation
Dates:	9/2000 - 3/2001

An open evaluation of the efficacy and safety of E-TRANS<sup>™</sup> (fentanyl) for the management of postoperative pain following short-stay surgical procedures.

Funds:	Alza Corporation
Dates:	9/2000 - 4/2001

Enhancing the anesthetic recovery of the elderly.Funds:International Anesthetic Research Society Clinical Scholar Award.Dates:1/1999 – 1/2001

A randomized, double-blind, phase 3, efficiency comparison of 10% Pentastarch in 0.9% sodium chloride vs. 0.9% sodium chloride for fluid resuscitation in surgical patients experiencing hypovolemic hypotension.

Funds:	B. Braun Medical
Dates:	4/1999 - 5/2000

PCA morphine and Naloxone combination for postoperative analgesia.

Funds:Pain Therapeutics, Inc.Dates:4/1999 - 3/2000

Double-blind placebo controlled comparison of the efficacy of ondansetron ODT vs. placebo for the prevention of postoperative nausea and vomiting.

Funds:Glaxo Wellcome, Inc.Dates:4/1999 - 12/2000

A randomized, double-blind, placebo controlled dose ranging study of the analgesic efficacy and safety of single doses of Nabumetone q 0.9G, 1.35G, 1.8G and 2.25G, acetaminophen 1G plus oxycodone 10 mg (tylox) and placebo for the treatment of postoperative pain following lower abdominal surgery.

Funds:SmithKline Beecham PharmaceuticalsDates:6/1999 – 1/2000

A research study to place a monetary value on the avoidance of intraoperative awareness.

Funds:Aspect Medical Systems7/100011/2000

Dates: 7/1999 – 11/2000

A multi-center trial to evaluate the interaction of maintenance doses of rocuronium with an intubating dose of rapacuronium, rocuronium or succinylcholine.

 Funds:
 Organon, Inc.

 Dates:
 5/2000 - 3/2001

The clinical use of Hextend® compared to 5% albumin in patients undergoing radical retroperitoneal prostatectomies.

Funds:Abbott Laboratories, Inc.Dates:4/2000 - 9/2001A research study to place a monetary value on avoidance of succinylcholine related side effects.Funds:OrganonDates:8/1999 - 11/2000

PentaLyte® dose escalation safety study.

 Funds:
 BioTime, Inc.

 Dates:
 8/2000 - 11/2000

A prospective randomized comparison of remifentanil versus fentanyl in the incidence of postoperative nausea and vomiting.

Funds:Abbott LaboratoriesDates:11/2000 - 8/2003

An open label, randomized, comparative study to compare the effects of intubating doses of rapacuronium, rocuronium cisatracurium or succinylcholine on the clinical duration(s) of maintenance doses of cisatracurium or rocuronium under isoflurane anesthesia.

Funds:Abbott LaboratoriesDates:11/2000 - 1/2002

A prospective, double blind, randomized comparison of remifentanil and fentanyl during carotid endarterectomy.

Funds:Abbott LaboratoriesDates:11/2000 - 10/2002

A comparison of cardiac output and stroke volume using esophageal doppler, non-invasive cardiac output monitor and PA catheter.

Funds:NovametrixDates:3/2001 - 3/2002

A multicenter, double-blind, randomized study of the efficacy and safety of a single dose of IV parecoxib sodium followed by up to seven days of oral valdecoxib for the pain following laparoscopic cholecystectomy.

Funds: G.D. Searle & Co. Dates: 5/2001 – 1/2002 (AIM) Trial: A Prospective, Multicenter Study to Determine the Incidence of Awareness During Routine General Anesthesia with BIS Monitoring.

Funds:Aspect Medical System AwarenessDates:7/2001- 7/2002

Patient Treatment Preferences for Acute Post-operative PainFunds:PharmaciaDates:11/2001 - 3/2003

A randomized, double-blind, parallel group, placebo controlled, pilot dose ranging study of intravenous Kytril® in the prevention of post-operative nausea and vomiting in patients undergoing abdominal hysterectomy.

Funds:Roche Laboratories, Inc.Dates:2/2002 - 8/2002

Blood management and outcomes in cardiac and orthopaedic surgery demonstration project.Funds:Englewood Hospital and Medical CenterDates:4/2002 - 3/2003

Comparison of Transdermal Scopolamine patch, Zofran and Zofran/Transdermal Scopolamine Patch combination for the prevention of postoperative nausea and vomiting in the outpatient setting.

Funds: Novartis Dates: 4/2002 - 8/2002

Patient's attitudes in the use of patient controlled analgesia.

 Funds:
 Pfizer

 Dates:
 2/2002 - 3/2003

Double-blind multicenter study of the safety and efficacy of parecoxib followed by valdecoxib compared to placebo in general surgery patients for treatment of post-surgical pain.

 Funds:
 Pharmacia

 Dates:
 10/2002 - 3/2003

Multiple dose randomized, double-blind, placebo controlled study of the analgesic efficacy and safety of valdecoxib compared to placebo in patients for treatment of post-surgical pain from laparoscopic cholecystectomy surgery.

Funds:Pharmacia and UpjohnDates:2/2003 - 8/2003

A phase II, double-blind, randomized parallel group study of IV methylnaltrexone in the prevention of postoperative ileus.

 Funds:
 Progenics

 Dates:
 3/2003 - 3/2005

A prospective, randomized, double-blind, non-inferiority study of granisetron plus dexamethasone versus ondansetron plus dexamethasone in the prevention of post-operative nausea and vomiting in patients undergoing abdominal hysterectomy.

Funds: Roche Dates: 9/2003 – 9/2004

A Randomized, Double-Blind, Active Comparator-Controlled, Parallel-Group Study, Conducted Under In-House Blinding Conditions, to Examine the Safety, Tolerability, and Efficacy of 2 Doses of Aprepitant for the Prevention of Postoperative Nausea and Vomiting.

Funds: Merck Dates: 10/2003 - 10/2006

Comparison of Granisetron and Promethazine or a Commination of Both for the Prevention of Post DischargeNausea and Vomiting in Female Patients Undergoing Outpatient Laparascopic Procedures.Funds:Hoffman-La Roche, Inc.Dates:7/2004 - 8/2006

Parallel-Group Study, Conducted under In-house Blinding Conditions to Examine the Safety, Tolerability, and Efficacy of 2 Doses of MK-0869 for the Prevention of Postoperative Nausea and Vomiting. Funds: Merck & Company

Dates: 11/2004 - 5/2005

A Randomized, Double-blind, Placebo Controlled, Multicenter Trial Comparing Transderm Scop (Transdermal Scopolamine Patch) Plus Zofran (Ondansetron) to Zofran (Ondansetron) Alone for the Prevention of Post-operative Nausea and Vomiting in the Outpatient Setting.

 Funds:
 Baxter

 Dates:
 11/2004 - 2/2006

Cost Utility Analysis of Postoperative Nausea and Vomiting Funds: Merck & Company, Inc,

Dates: 12/2004 - 1/2006

Comparison of the Safety and Efficacy of Patient Controlled Analgesia Delivered by Fentanyl HCI Transdermal System versus Morphine IV Pump for Pain Management after Non-emergent Abdominal or Pelvic Surgery.

Funds:Ortho-McNeil PharmaceuticalsDates:12/2004 - 12/2005

A Pilot Study to Estimate the Variability of Selected Parameters when Either Pentalyte or 5% Albumin are used During and Immediately Following Cardiac Surgery in a Prospective, Blinded, Randomized Clinical Trial.

Funds: Biotime, Inc. Dates: 1/2005 – 1/2007 A Multicenter, Randomized, Double-blind, Double-dummy, Placebo-controlled, Parallel Group, Phase II Study to Evaluate the Safety, Efficacy, and Pharmacokinetics of Oral (25 mg) and Intravenous (3 mg and 18 mg) Formulations of the Neurokinin-1-Receptor Antagonist, GW597599, when Administered with Intravenous Ondansetron Hydrochloride for the Prevention of Post-operative Nausea and Vomiting and Post-discharge Nausea and Vomiting in Female Subjects with Known Risk Factors PONV who are Undergoing Surgical Procedures Associated with an Increased Emetogenic Risk.

Funds:GlaxoSmithKlineDates:2/2005 - 2006

A Randomized, Double-blind, Multicenter, Parallel Group, Balanced, Stratified, Phase 3 Study to Evaluate the Efficacy and the Safety of Single IV Doses of Palonosetron 0.025 mg, 0.050 mg, and 0.075 mg versus Placebo in Outpatients to Prevent Post-Operative Nausea and Vomiting Following Elective Adbominal or Gynecological Laparoscopic Surgery.

 Funds:
 PAREXEL

 Dates:
 9/19/2005 - 9/18/2008

A Randomized, Double-Blind, Active Comparator-Controlled, Parallel-Group Study Conducted under In-House Blinding Conditions, to Examine the Safety and Tolerability of IV MK-0517 for the Prevention of Postoperative Nausea and Vomiting.

Funds: Merck & Company, Inc. Dates: 9/2005 – 8/2007

GSK NK1102552 Zofran PONV in female surgical subjects.

Fund: GlaxoSmithKline Dates: 6/2006 – 6/2007

A Phase 3, open-label, single arm study to assess the safety of Aquavan® (fospropofol disodium) injection for minimal-to-moderate sedation in patients undergoing minor surgical procedures.

 Fund:
 MGI Pharma

 Dates:
 9/1/2006 - 2/2008

Phase I - Safety, tolerability and pharmacokinetics of a single dose of  $Staccato^{TM}$  fentanyl for inhalation in normal, healthy volunteers.

 Funds:
 Alexza

 Dates:
 4/1/2006 - 4/5/2008

A phase 3, double-blind, randomized, parallel-group, placebo-controlled study of intravenous (IV) methylnaltrexone bromide (MNTX) in the treatment of post-operative ileus (POI).

Funds: Progenics Pharmaceuticals

Dates: 12/5/2006 - 12/31/2008

A Phase III, randomized, double-blind, placebo-controlled study evaluating the safety and efficacy of dexmedetomidine for sedation during monitored anesthesia care.

 Funds:
 Hospira

 Dates:
 2/21/2007 - 2/20/2009

The impact of combined gabapentine and COX-2 use before surgery on post-operative outcomes. Funds: Pfizer, Inc.

Dates: 4/4/2006 - 12/31/2007

Duke Anesthesia and sedation safety improvement initiative.Funds:Aspect Medical Systems, Inc.Dates:1/26/2006 - 2/3/2010

A randomized, double-blind, active- and placebo-controlled study of the analgesic efficacy and safety of repeated dosing of two dose levels of DIC075V relative to parenteral ketorolac and placebo in patients with acute post-operative pain after abdominal or pelvic surgery

Funds:	•	Javelin Pharmaceuticals, Inc
Date:		4/11/2007 - 4/10/2008

Study of intravenous methylnaltrexone (MOA-728) for the treatment of postoperative ileus following ventral hernia.

Funds:Wyeth PharmaceuticalsDate:7/5/2007 - 9/30/2008

Study of the efficacy and safety of lubiprostone in patients with opioid-induced bowel dysfunction.

Funds: Sucampo Pharmaceuticals

Simple TKA 311: Safety and efficacy of a single intraoperative administration of SKY0402.Funds:Pacira PharmaceuticalsDate:8/22/2008 - 8/31/2009

Long-term safety/efficacy of lubiprostone in patients with opioid-induced bowel dysfunction. Funds: Sucampo Pharmaceuticals Date: 10/1/2008 – 9/30/2010

A double-blind, multi-center, randomized, stratified, parallel, 2-arm, phase 2 study to assess palonosetron vs. ondansetron as rescue in subjects that developed postoperative nausea and vomiting (PONV) in the postanesthesia care unit (PACU).

Funds: Eisai, Inc.

Date: 3/2009 – 12/2009

A randomized, double-blind, placebo-controlled, phase II study to assess the safety and efficacy of different doses of intravenous APD405 (buspirone hydrochloride given intravenously) for the prevention of postoperative nausea and vomiting (PONV).

Funds: Acacia, Inc.

Date: 4/2009 – 12/2009

Assessment of NICOM vs. esophageal Doppler monitor guided goal directed fluid therapy in the perioperative period.

Funds: Cheetah Medical

Date: 5/15/ 2010 - 3/31/2011

Study of LUSEDRA (Fospropofol Disodium) injection compared with propofol injectable emulsion. Funds: Eisai, Inc.

10/15/2010 - 10/14/2012Dates: Trial to evaluate sufentanil NanoTab PCA System for P-Op pain in abdominal surgery. Funds: AcelRx Pharmaceuticals Date: 11/11/2011 - 11/30/2013Enhanced Recovery Program Pilot Study: Identification of associations between anesthetic factors and adverse outcomes. Funds: Premier, Inc. Dates: 11/19/2011 - 12/31/2013Study to evaluate intravenous CR845 in patients undergoing laparoscopic hysterectomy. Funds: **Cara** Therapeutics Dates: 7/20/2011 - 7/31/2013 Trial to evaluate the safety and efficacy of a shortened infusion time of intravenous ibuprofen. Funds: **Cumberland Pharmaceuticals** Dates: 1/6/2012 - 12/31/2013 Impact of opioid reduction strategy protocol on length of stay and complications in elective coloractal surgery patients. Funds: Pacira Pharmaceuticals Dates: 1/25/12 - 1/24/2013Phase II study to assess intravenous APD421 for prevention of PONV. Funds: Acacia 2/23/2012 - 2/28/2013 Dates: ONU3704 - Trial of oxycodone/naloxone (OXN) tablets for chronic low back pain. Funds: Purdue Pharma, LP Dates: 7/1/2012 - 6/30/2014 ONU3705 - Trial of oxycodone/laoxone tablets in opioid-induced constipation in low back pain. Purdue Pharma, LP Funds: Dates: 7/1/2012 - 6/30/2014 Clinical and economic impact of replacing first generation high MW hydroxyethyl starch with Voluven at a large medical center. Funds: Fresenius Kabi AG Dates: 7/15/2012 - 8/31/2015 RECITE: Residual Curarization and its incidence at tracheal extubation in the United States.

Funds: Merck & Company

Dates: 9/1/2012 - 11/30/2013

Triple Low Confirmation Collaboration.Funds:Covidien, LtdDates:7/1/2010 - 4/30/2014

Event Adjudication for 5945-OIC-12-02, 5945-OIC-12-03, 5945-OIC-12-04, 5945-OIC-12-05. Funds: INC Reseach Dates: 1/15/2003 – 3/6/2015

## National Principal Investigator

A Phase 2, Randomized, Double-blind, Placebo-controlled, Escalating Dose-response trial of Intravenous Adenosine for Perioperative Analgesia in Females Undergoing Abdominal Hysterectomy or Myomectomy. Funds: Xsira Pharmaceuticals

Dates: 8/29/2005 - 8/28/2008

SaVVI Study - Randomized evaluation of arterial pressure based cardiac output for goal-directed perioperative therapy. Funds: Edwards Life Sciences

 Funds:
 Edwards Life Sciences

 Date:
 6/15/2006 - 10/2008 

A randomized, placebo-controlled, double-blind, proof-of-concept, dose-ranging study comparing ascending single dose oral rolapitant monotherapy and single dose intravenous ondansetron monotherapy for the prevention of postoperative nausea and vomiting.

Funds:Schering-Plough Research InstituteDate:6/2007 - 6/14/2008

Bupivacaine effectiveness and safety in SABER™ Trial (BESST)

Funds: Durect, Inc.

Dates: 12/2009 – 3/2011

Korean enhanced recovery strategy for colorectal surgery (KEROS)Funds:Fresenius Kabi AGDates:8/1/2012 - 7/31/2014

# **Total Principal Investigator Funding of \$23,688,993**

# **Co-Investigators**

Assessment of effectiveness of a single dose dolasetron mesylate in treating postoperative nausea and vomiting.

Funds:Hoechst Marion Roussel, IncDates:10/1993-10/1994

Assessment of effectiveness of a single dose dolasetron mesylate in preventing postoperative nausea and vomiting in patients undergoing gynecologic laparoscopic surgery. Funds: Hoechst Marion Roussel, Inc

Dates: 10/1993-10/1994

Evaluation of the intubating conditions provided with ORG 9487 and succinylcholine.

Funds: Organon Dates: 11/1995-10/1996

Development of methods to objectively value intangible elements of health care.

Funds:	Glaxo Wellcome	
Dates:	1/1998-present	
Genetics, inflammation and post-op cognitive dysfunction.		
Funds:	Dept. of Health and Human Services – NIH	
Dates:	12/1/1999 - 11/30/2004	

Pentalyte vs. albumin in cardiac surgery.Funds:BiotimeDates:1/15/2005 – present

A phase 3, randomized, double-blind, dose-controlled study to assess the efficacy and safety of Aquavan® (fospropofol disodium) injection for minimal-to-moderate sedation in patients undergoing flexible bronchoscopy.

Funds:MGI PharmaDates:9/1/2006 - present

Evaluation of a Minimally Invasive Cardiac Output Monitoring Device in Septic and Heart Failure Patients Funds: Retia Medical Dates: 12/4/2012 – 12/31/2014

# Training Program Participant:

Integrated training in Anesthesiology research.Funds:NIHDates:7/1/2011 - 6/30/2014

# **Post-Doctoral Trainees & Mentees**

Howard Wakeling, M.B., F.R.C.A., M.R.C.P., Visiting Associate, 8/1996-1/1998 Ratan Alexander, M.B., F.R.C.A., Visiting Associate, 1/1997-4/1998 Jennifer M. Fabling, M.D., Neuroanesthesia Fellow, 1/1996-1/1998 Robert Hill, M.B., F.R.C.A., Visiting Associate, 1/1997-8/1998 Andrew Soppitt, M.B., F.R.C.A., M.R.C.P., Visiting Associate, 1/1998-6/1999 Gavin Martin, M. B., F.R.C.A., Associate, 7/1998-present David Wright, M.B., F.R.C.A., Associate, 7/1999-7/2011 Ashraf Habib, M.B., F.R.C.A., Associate, 7/2000-present Dara Breslin, M.B., Ch.B., Associate, 9/2001 - 7/2006 David Cameron, MD, Associate, 5/2002 - 3/2003 Sonya McKinlay, M.B., Ch.B., Associate, 7/2002 - 6/2003 Kok Yuen Ho, M.B., B.S., MMed, Fellow, 8/2005 - 7/2006 Kui Ran Jiao, M.D., Research Fellow, 1/2001 – 8/2004 Yan Xia Sun, M.D., Research Fellow, 1/2006 – 12/2007 Tim Miller, M.B., ChB, Assistant Professor, 2008 - present Ronald Olson, MD, Associate Professor, 2010 - present

# Third Year Medical Students Mentored

Aaron Skolnik, 8/1/2013 – 7//31/2015 Ming Juan Tan, 8/1/2013 – 7/31/2014 Lawrence Law, 8/1/2013 – 7/31/2014 Theresa Crowgey, 9/1/2012 – 7/31/2013 Katie Yang, 8/1/2011 - 7/31/2012 Nathan Waldron, 8/1/2010 – 7/31/2011 Megan Campion, 8/1/2008 – 7/31/2010 Tina Le, 8/1/2009 – 7/31/2010 Elizabeth Malinzak, 8/1/2007 - 8/1/2008 John Dubose, 8/1/2006 - 8/1/2007 Lisa Jones, 8/1/2004 - 7/1/2005 Israel Nosnik, 8/1/2005 - 8/1/2006

### **International Visiting Professor Programs**

- 1. Choices of intraoperative fluids. Oxford University, United Kingdom. May, 1997.
- 2. Intraoperative hemodynamic monitoring. Siriraj Hospital, Mahidol University, Bangkok, Thailand, November, 1997.
- 3. Concept of general anesthesia. University of Malaya, Kuala Lumpur, Malaysia, December, 1997.
- 4. Monitoring depth of anesthesia. National University Hospital, Singapore. December, 1998.
- 5. Perioperative fluid management. Chulalonkong Hospital, Chulalongkong University, Bangkok, Thailand, December, 1997.
- 6. Intraoperative Fluid management. University Kebangsaan, Malaysia. July, 1999
- 7. Intraoperative fluid management and choices of fluids. Royal North Shore Hospital, University of Sydney, Sydney, NSW, Australia. October 7, 2003.
- 8. Fluid management. An update. St. Vincent's Hospital, Sydney University, NSW, Australia., October 8, 2003.
- 9. Determining volume responsiveness. National University Hospital, Singapore. February 9, 2007.
- 10. The role of minimally invasive cardiac output monitoring for fluid management. Tan Tock Seng Hospital, Singapore. June 14, 2007
- 11. The role of minimally invasive cardiac output monitoring for fluid management. Singapore General Hospital, Singapore. June 15, 2007.
- 12. The role of minimally invasive cardiac output monitoring for fluid management. Changi General Hospital, Singapore. June 15, 2007.
- 13. The use of cardiac output devices for fluid management. Seoul, S. Korea. July 9, 2007.
- 14. The role of minimally invasive cardiac output monitoring for fluid management. Beijing, PR China.

July 12, 2007.

- 15. The role of minimally invasive cardiac output monitoring for fluid management. Shanghai, PR China. July 13, 2007.
- 1) Perioperative fluid management and postoperative outcomes. 2) Postoperative Nausea and Vomiting: Current challenges and management strategies. Toronto Western Hospital, Toronto, Canada. October 25-26, 2007.
- 17. Recent advances in volume therapy. National University Hospital and Singapore General Hospital, Singapore. March 31 and April 1, 2009.
- 18. 1) Acute pain management it's the multimodal story witchcraft? 2) Can we make nausea a thing of the past? Auckland City Symposium, Auckland, New Zealand. March 20, 2010.
- 19. Current Controversies in Perioperative Fluid Management. University Medical Center Groningen. Groning, The Netherlands. March 24, 2011.
- 20. Perioperative Fluid Optimization: Aquatic Assassins? University of Strasbourg, France. July, 2012
- 21. Perioperative Fluid Management. Aquatic Assassins? Harold Griffith Memorial Lecture & Faculty Dinner. McGill Department of Anesthesia, Quebec, Canada. April, 2013
- 22. ERAS, Ventilation and Anesthesia, IRCAD Course, Strasbourg, France, September 26, 2015

#### **National Visiting Professor Programs**

- 1. Update on neuromuscular blocking drugs. University of Florida, Jacksonville, FL. August, 1996.
- 2. Management of postoperative symptoms. University of North Carolina, Chapel Hill, NC April, 1999.
- 3. Plasma volume expander: The millennium perspective. Yale University, New Haven, CT. February, 2000.
- 4. 1) Update in neuromuscular blocking agents. 2) Plasma volume expanders. The millennium perspective. University of Texas, El Paso, TX. July, 2000.
- 5. Postoperative nausea and vomiting. An update. Yale University, New Haven, CT. January, 2002.
- 6. 1) Intraoperative fluid management. 2) Zero incidence of PONV. Is it possible? State University of New York, Upstate Medical Center, Syracuse, NY. October, 2002
- 7. New perspective in the management of postoperative nausea and vomiting. Miami University School of Medicine, Miami, FL. December, 2002.
- 8. 1). Intraoperative fluid management. Is there a right way? 2). Zero incidence of PONV. Is it possible? Washington University School of Medicine, St. Louis, MO. February, 2003.
- 9. 1). Intraoperative fluid management 2). Postoperative nausea and vomiting. State University of New

York at Stony Brook. Stony Brook, NY. April, 2003.

- 10. Postoperative nausea and vomiting in ambulatory surgery. Beth Israel Deaconess Medical Center, Harvard Medical School, Boston MA. September, 2003.
- 11. Consensus panel guidelines on postoperative nausea and vomiting. Rush\_Presbyterian-St. Luke's Medical Center, Rush Medical College and University, Chicago, IL. October, 2003.
- 12. Common complications following ambulatory anesthesia. Northwestern University, Chicago, February, 2004
- 13. Post-op pain. University of South Florida, Tampa. March, 2004.
- 14. Johns Hopkins University School of Medicine, Department of Anesthesiology & Surgery, Baltimore, MD. August 2-3, 2004.
- 15. Perioperative fluid management. Albany Medical Center, Albany, NY, September, 2004.
- 16. Consensus panel recommendations for the management of PONV. West Virginia University, Morgantown WV. June 1, 2005.
- 17. Consensus panel recommendations for the management of PONV. Annual Bookatz Lecture. Baylor University Medical Center, Dallas, TX, August 2005.
- 18. Consensus panel recommendations for the management of perioperative nausea and vomiting. University of Cincinnati, Cincinnati, OH. April 26, 2006.
- 19. Consensus panel recommendations for the management of perioperative nausea and vomiting. St. Judes Children's Research Hospital. November 2, 2006.
- 20. Postoperative nausea and vomiting: current challenges and methods for management. MD Anderson, Houston, TX. June 6, 2007.
- 1) Perioperative Fluid Management and Postoperative Outcomes. 2) Postoperative Nausea and Vomiting: Current Challenges and Management Strategies Toronto Western Hospital. Toronto, Canada. October 25-26, 2007.
- 22. 1) Consensus Panel Recommendations for the Management of PONV. 2) What's New in Perioperative Fluid Management? Cleveland Clinic. Cleveland. OH. August 19-21, 2008.
- 23. Management of Postoperative Nausea and Vomiting in an Ambulatory Setting. Hospital for Special Surgery, NYC, NY. January 29, 2009.
- 24. Consensus Panel Recommendations for the Management of PONV. Medical University of South Carolina, Charleston, SC. February 17, 2009.
- 26. Perioperative Fluid Management. Is There a Right Way? 2) Consensus Panel Recommendations for the Management of PONV. UCLA, Los Angeles, CA. April 28 & 29, 2009.

- 27. Postoperative Nausea and Vomiting Consensus Panel Recommendations. Ohio State University. Columbus, OH. May 27, 2010.
- 28. Management of Hemodynamically Unstable Patient. 2) PONV, SAMBA Consensus Panel Recommendation. Oregon Health & Science University. Portland, OR. August 2, 2010.
- 29. Management of Postoperative Pain, Nausea and Vomiting in Ambulatory Surgery. 2) Goal Directed Fluid Administration. Does it Improve Outcome? Children's Hospital of Philadelphia. Philadelphia, PA. August 18 & 19, 2010.
- 30. Is Monitoring Depth of Anesthesia a Waste of Time? Inova Fairfax Hospital. Falls Church, VA. September 7, 2011.
- 31. Enhanced Recovery after Surgery (ERAS). Is it Just a Nice Idea? U.C. Davis. Sacramento, CA. December 3-4, 2012.
- 32. Enhanced Recovery Program: Tapping the Low Hanging Fruits, Memorial Sloan Kettering Grand Rounds Visiting Professor, New York, NY, Monday, December 7, 2015
- 33. Presentation to Brookdale University Hospital Grand Rounds, Brooklyn, NY, December 17, 2015
- Anesthesiology and Pain Management Grand Rounds Lectureship – National Visiting Professor, UT Southwestern Medical Center, Dallas, TX January 20, 2016
- 35. Enhanced Recovery Program. Are you missing out on the opportunity? Columbia University, College of Physicians & Surgeons, New York, NY. February 4, 2016
- 36. Elements of Enhanced Recovery Protocol: Are they Evidence Based? Perioperative Fluid Management: a 2016 Perspective University of Alabama, 44<sup>th</sup> Annual Anesthesiology Review Course, Birmingham, AL. February 20, 2016

### **Selected International Invited Lectures**

- 1. Anesthetic depthometer, facts or fantasy? ASEAN Society of Anesthesiologists Biannual Conference, Chiang Mei, Thailand. December, 1997.
- 2. What's new in postoperative nausea and vomiting. Malaysian Society of Anesthesiologists, Kuala Lumpur, Malaysia. December, 1997.
- 3. What is new in the treatment of postoperative nausea and vomiting? ASEAN Society of Anesthesiologists Biannual Conference, Chiang Mei, Thailand. December, 1997.
- 4. Propofol. Milk of antiemesis? European Society of Anesthesiologists. Barcelona, Spain. April, 1998.
- 5. Monitoring anesthetic depth. Have we found the "holy grail"? Singapore Academy of Medicine and Singapore Society of Anesthesiologists. December, 1998.
- 6. 1) Morbidity following ambulatory surgery. 2) Optimizing sedation and analgesia for your patient.
  3) Debate: Patients for short day care procedures do not require perioperative intravenous fluids. 4) Debate: Single agent anaesthesia for ambulatory surgery: intravenous is better than inhalational. The Eleventh ASEAN Congress of Anaesthesiologists. Malaysia. July, 1999.
- In search of the ideal antiemetic. 2) Pain relief in the early post-operative period. The millenium perspective. Second Congress of the Asian Oceanic Society for Intravenous Anaesthesia. Melbourne Australia. October, 1999.
- 8. 1) Intravenous Fluid Therapy. 2) Is Hextend the Solution? Current Controversies in Anaesthesia and Peri-Operative Medicine. Dingle, Co. Kerry, Ireland. October, 1999.
- 9. Plasma volume expander. World Congress of Anesthesiologists. Montreal, Canada. June, 2000.
- 10. Plenary Session: Evidence-based Management of Post-operative Nausea and Vomiting. Canadian Anesthesiologists' Society 59<sup>th</sup> Annual Meeting. Ottawa, Ontario. June 21, 2003.
- 11. Effective post-operative pain management: Early treatment and sustained administration. The European Federation of the International Association for the Study of Pain Chapters, Prague, Czech Republic September 2-6, 2003
- Plenary Session: 1) Consensus on the Management of PONV. 2) Role of Acupuncture in Anaesthesia.
   3) COX-2 Inhibitors. Combined Scientific Meeting in Anaesthesiology 2003. Hong Kong. September 26-28, 2003.
- 1) New concepts in perioperative fluid management. 2) Benefits of TIVA. 3) COX-2 inhibitors.
   4) Management of PONV. Australian Society of Anesthesiologists Guest of Honor, Melbourne, Australia. October 2-5, 2003.
- 14. Post-operative nausea and vomiting. Ontario Perianesthesia Nurses Association, 18<sup>th</sup> Annual Conference, Toronto, Canada. October 25, 2003.

- 15. 1) Rol de los inhibidores de la COX-2 en el paciente ambulatorio. 2) Analgesia multimodal. Dolor agudo postoperatorio y postraumatico. Bogota, Columbia August 27 & 28, 2004.
- 16. New approach in surgical pain management. The Annual Meeting of Department of Anesthesiology, Faculty of Medicine, Chiangmai University. Bangkok, Thailand. July 20, 2005.
- 17. New approach in surgical pain management. 30th Annual Scientific Meeting of the Royal College of Surgeons of Thailand/15th Asian Congress of Surgery. Chombur, Pattaya, Thailand. July 22, 2005.
- 18. 1) Evidence based management of PONV in ambulatory anesthesia. 2) Monitoring intraoperative awareness. 34th Argentine Congress of Anesthesiology. Buenos Aires, Argentina. September 2005.
- Post-operative nausea and vomiting. Anesthesiology Association of Cundinamarca, SCA. Association of Colombian Anesthesiology and Reanimation. SCA 2005 Course Ambulatory Surgery Update. Bogota, Columbia. November 4, 2005.
- 20. The Choice of Fluid for the Perioperative Period. Annual Meeting of the Korean Society of Anesthesiologists. Jeju, Republic of Korea. November, 2005.
- 21. Clinical application of arterial pressure-based cardiac output monitoring. Japan Society of Clinical Anesthesiology, Kobe Japan. May 30 June 3, 2006.
- 1) Consensus guidelines on the management of PONV. 2) Perioperative fluid management: the science and art. XXXII Curso Annual De Actualizacion en Anestesiologia y Medicina Perioperatoria. Mexico City, Mexico June 8-10, 2006.
- 23. Goal directed fluid administration perioperative perspectives. The Great Fluid Debate: A state of the art review of plasma volume expanders and fluid management. Royal Society of Medicine, London, UK. August 3-4, 2006
- 24. 1) Strategies for perioperative fluid management and choice of fluid. 2) Anesthesia for ambulatory surgery. Beijing Tongren Anesthesia Conference. Beijing, PR China. September 23 27, 2006.
- 25. The role of minimally invasive cardiac output monitoring in improving perioperative outcome. Criticare 2007: International Critical Care Congress & 13th Annual Conference of the Indian Society of Critical Care Medicine. Cochin India. February 10, 2007.
- 26. 1) Current trends in volume therapy: an American perspective. 2) Goal-directed volume therapy in surgical patients. Fresenius Kabi Advanced Course in Transfusion Alternatives (FRACTA). Havana, Cuba. April 24-26, 2007.
- 27. The role of minimally invasive cardiac output monitoring for fluid management. 5th National Conference on Intensive Care. Kuala Lumpr, Malaysia. June 22, 2007.
- 28. Management of postoperative nausea and vomiting. Siem Reap, Cambodia. November 9, 2007.
- 29. Cardiovascular Monitoring. 15th ASEAN Congress of Anaesthesiologists. Pattaya City, Thailand. November 11, 2007.

- 30. Rational Approach to Anti-emetic Therapy. International Society of Anesthetic Pharmacology 2008 Cape Winelands Conference. Stellenbosch, SA. February 29, 2008.
- 31. 1) PONV in Day Surgery Ensuring the Patient Goes Home. 2) Minimally Invasive CO Monitoring The End of the PA Catheter?" Singapore-Duke Anesthesia and Critical Care Update 2008.
   Singapore. April 5-6, 2008.
- 32. 1) Consensus Panel Recommendation for the Management of Postoperative Nausea and Vomiting. 2) Hemodynamic Monitoring Guiding Fluid Management. The Satellite Meeting of International Society for Anaesthetic Pharmacology (Combined with the Annual Meeting of Chinese Association of Anesthesiologists). Chongqing, China. April 13, 2008.
- 33. 1) Consensus Panel Recommendation for the Management of Postoperative Nausea and Vomiting. 2)
   Goal Directed Perioperative Fluid Management. 3) Pain Management in Ambulatory Patients. 4)
   What's New in Neuromuscular Blocking and Reversal Agents? New Horizons in Anesthesiology.
   Cozumel, Mexico. March 21-25, 2009.
- 34. 1) Advances in volume monitoring. 2) Volume therapy and coagulation. 3) Restrictive or liberal therapy?
  4) Normal saline is abnormal. 2009 FRACTA Meeting. Kuala Lumpur, Malaysia. April 13 & 14, 2009.
- 1) Goal-directed fluid therapy: Does it work and what should you use.
   2) PONV and ambulatory anaesthesia: State of the art. ANZCA ASM 2009 Anaesthesia: Branching Out. Cairns, Australia. May 2-6, 2009.
- 1) Guidelines for management of PONV. 2) Use of opioids for acute pain. 3) Fast tract recovery.
   38<sup>th</sup> Congress Argentina Society of Anesthesiologists. Cordoba, Argentina. September 1-6, 2009
- 37. 1) Acute pain management is this the multimodal story witchcraft? 2) Can we make nausea a thing of the past? Auckland City Symposium. Auckland, New Zealand. March 20, 2010.
- 1) Post-op bowel dysfunction: can we do better? 2) Recent advances in volume therapy. 3) Update on postoperative nausea and vomiting. Duke Singapore Anesthesia Update. Singapore. September 18, 2010.
- 1) Postoperative Nausea and Vomiting: Is the Problem Solved? 2) Post-operative Analgesia New Pharmacologic Modalities. World Anesthesia Congress. Rome, Italy. April 13, 2011.
- 40. "Colloid or Crystalloid: Any Differences in Outcomes?" Refresher Course Lecture. IARS Annual Meeting. Vancouver, BC. May 21, 2011.
- 41. Early Goal Directed Therapy in Perioperative Fluid Management. Sarawak General Hospital. Sarawak, Malaysia. June 16, 2011.
- 42. Perioperative Fluid Optimization and Clinical Outcomes. 2012 FRACTA Japan. Tokyo, Japan. February 18 19, 2012.
- 1) Liberal vs Restricted Fluid Regime in Bowel Surgery. 2) Ambulatory Panel: State of the Art in Ambulatory Practice. World Congress of Anaesthesiologists Meeting. Buenos Aires, Argentina. March 25-30, 2012.

- 1) Intraoperative Haemodynamic Monitoring and Surgical Outcome. 2) Enhanced Recovery after Surgery – Evidence and Implementation. Malaysian Society of Anaesthesiologists Annual Scientific Meeting. Kuantan, Pahang, Malaysia. April 19-22, 2012.
- 45. Enhanced Recovery After Surgery (ERAS). A New Paradigm for Surgical Patients. Chinese Society of Anesthesiology Meeting. Chongqing, China. September 1, 2012.
- 46. Postoperative Nausea and Vomiting. 1<sup>st</sup> ERAS Congress. Cannes, France. October 5-7, 2012.
- 47. 1) Perioperative Fluid Management: Aquatic Assassins. 2) Management of Postoperative Nausea and Vomiting: New Information & New Strategy. 15th Annual Conference: Challenges for Clinicians. St. John, VI. Jan 22-23, 2013.
- 48. How can we be Smarter in Acute Pain Management. McGill University. Montreal, Canada. April 25, 2013.
- 49. What is Enhanced Recovery? Guangdong General Hospital, China, March 10, 2015
- 50. Goal Directed Fluid Therapy, Zhujiang Hospital of Nanfang Medical University, March 11, 2015
- 51. What is Enhanced Recovery? First Affiliated Hospital of Chongqing University, March 12, 2015
- 52. Perioperative Goal Directed Fluid Therapy in Elderly Surgical Patients, CSA, China, September, 11, 2011
- 53. ERAS, Ventilation and Anesthesia, IRCAD, Strasbourg, France, September 26, 2015
- 54. Enhanced Recovery Program. A New Paradigm for Perioperative Care. Windsor Regional Hospital, Windsor, ON, Canada, February 11, 2016

## **Selected National Invited Lectures**

- 1. Peri Anesthesia Annual Conference, University of North Carolina, Chapel Hill, North Carolina. April, 1998.
- 2. New alternatives in the management of postoperative nausea and vomiting. Wisconsin Association of Nurse Anesthetists, Stephen's Point, WI. September, 1998.
- 3. New development in the management of postoperative nausea and vomiting. Nashville Society of Nurse Anesthetists, Nashville, TN. October, 1998.
- 4. Novel approaches to postoperative nausea and vomiting. Society of Intravenous Anesthesia Annual Meeting. Orlando, FL. October, 1998.
- 5. 1) New alternatives for postoperative nausea and vomiting. 2) Advances in Inhalation Anesthesia. Second Annual North Alabama Anesthesia Update. Huntsville, AL. March, 1999.

- 6. Influence of Age on Surgical Outcomes. GRASP Lecture. Duke University medical Center, Durham, NC. June, 1999.
- 7. New developments in the management of Post-operative nausea and vomiting. Idaho Association of Nurse Anesthetists Spring Conference. Boise, ID. May, 1999.
- 8. 1) BIS monitoring in anesthesia practice. 2) The utilization of novel drug delivery systems in anesthesia. The Seventeenth Annual Clemson University Smoky Mountain Conference for Nurse Anesthetists. Gatlinburg, TN. June, 1999.
- 9. 1) Treatment trends for postoperative nausea and vomiting. 2) Drug interactions and their implications for the clinicians. Annual meeting of the Oklahoma Society of Anesthesiologists. Los Colinas, TX. August, 1999.
- 10. Acupuncture. 4<sup>th</sup> Annual Integrative Medicine Conference. Duke Integrative Medicine, Duke University, Research Triangle Park, NC. October, 1999.
- 11. PONV: Assessing the Risk Factors and Treatment Options. Milwaukee Society of Anesthesia. Milwaukee, WI. February, 2000.
- 12. Plasma Volume Expanders: The Millenium Prespective. Illinois Society of Anesthesiologists Oakbrook, IL. October, 2000.
- Novel approaches in assessing risk of PONV and management strategies. An educational symposium, Intravenous Anesthesia Research Society 75<sup>th</sup> Clinical and Scientific Congress. Ft. Lauderdale, FL. March, 2001.
- 14. Risk assessment of PONV. American Society of Peri-Anesthesia Nurses 20<sup>th</sup> National Convention. Boston, MA. April, 2001.
- 15. Applications of acupuncture in the OR. Duke Center for Integrative Medicine. Durham, NC. February, 2002.
- Monitored anaesthesia care. International Society for Anaesthetic Pharmacology (ISAP) panel held at the 76<sup>th</sup> International Anesthesia Research Society (IARS) Annual Meeting. San Diego, CA. March, 2002.
- 17. Intraoperative fluid management and choice of fluids. Refresher Course held at the American Society of Anesthesiologists (ASA) 2002 Annual Meeting. Orlando, FL. October 2002.
- 1) Recovery of elderly patients from ambulatory surgery. 2) Panel Session: Geriatric anesthesia: Big problems with little cases. American Society of Anesthesiologists (ASA) 2002 Annual Meeting. Orlando, FL. October, 2002.
- 1) Monitored anesthesia care. 2) COX-2 analgesics. 3) What is new in the management of PONV. 4) Controversies in outpatient anesthesia. New Horizons in Anesthesiology, Steamboat Springs, CO and April 5-11, 2003, Cozumel, Mexico. February 9-14, 2003.

- 1) Update on the management of PONV. 2) Monitoring depth of anesthesia. 3) The role of COX-2 in acute pain management. Colorado Review of Anesthesia (CRASH), Vail CO. February 22-28, 2003.
- 21. Perioperative use of opioids and opioid antagonists. 5<sup>th</sup> International Congress on Ambulatory Anesthesia, (SAMBA), Boston, MA. May 8-11, 2003
- 22. The clinical pharmacology of HES and pentastarch. NATA First North American Symposium, San Francisco, CA. June 13-14, 2003.
- 23. Intraoperative fluid management and choice of fluids. Refresher Course held at the American Society of Anesthesiologists (ASA) 2003 Annual Meeting. San Francisco, CA. October 2003.
- 24. CNS plasticity and central sensitization: Prevention of the development of chronic pain. 67th Annual American College of Rheumatology Scientific Meeting, Orlando FL. October 25, 2003.
- 25. Perioperative fluid management. Is there a right way? Atlanta Society of Anesthesiologists, October, 2003.
- 26. Represent Society of Ambulatory Anesthesia (SAMBA) to present evidence at the FDA Anesthetic Life Support Drugs Advisory Committee on the discussion of the cardiac toxicity of droperidol. November, 2003.
- 1) Fluid Management and Choice of Fluids 2) Consensus Panel on the Management of Postoperative nausea and Vomiting. 12th Annual Anesthesia Symposium, Colorado Springs, Colorado, April 30 -May 1, 2005.
- 28. Effective Strategies to Minimize PONV in the Ambulatory Surgery Patient. SAMBA Satellite Symposium 20th Annual SAMBA Meeting, Scottsdale AZ, May 12-15, 2005.
- 29. Consensus Panel Recommendations for the Management of PONV. Grand Rounds Lecture at West Virginia University Department of Anesthesiology. Morgantown, WV. June 1, 2005.
- 30. 1) Consensus Panel Recommendations for the Management of PONV. 2) What's New in Anesthetic Pharmacology. 3) Perioperative Hemodynamic Monitoring and Fluid Management Stragety. 4) Adjunctive Analgesics An Opportunity to Improve Postoperative Pain Relief. Duke Winter Anesthesia & Critical Care Review. Park City, UT. March 5 & 6, 2007.
- 31. Consensus Guidelines and Recommendations for the Management of PONV. North Carolina Society of Anesthesiologists Annual Meeting. Asheville, NC. September 30, 2007.
- 32. Management of Postoperative Nausea and Vomiting. ASA Annual Meeting, San Francisco, CA, October 16, 2007.
- 33. New Neuromuscular Blocking Drugs and Reversal Agents. Tennessee Society of Anesthesiologists. Nashville, TN. February 16, 2008.
- 34. Goal Directed Therapy When, How and What to Use? Great American Fluid Debate. Sonoma, CA. March 26-28, 2008.

- 35. Consensus Panel Recommendations for Management of PONV. Refresher Course Lecture at the IARS Annual Meeting. San Francisco, CA. March 28-31, 2008.
- 36. 1) PONV: Will we ever get rid of it? 2. New Opioid Analgesic Preparation. 11<sup>th</sup> Annual Duke Cardiothoracic & Regional Update. Hilton Head, SC. July 8-9, 2008.
- 37. Consensus Panel Recommendations for the Management of PONV. Cleveland Clinic. Cleveland, OH. August 20, 2008.
- 1) The Evolution of Multimodal Management Strategies for Postoperative Ileus: The Latest Clinical Evidence. 2) Patient Scenarios for Postoperative Ileus and Expert Faculty Guidance on Clinical Assessment, Monitoring and Treatment. Academy of Medical-Surgical Nurses Meeting. Nashville, TN. October 4, 2008
- 39. Management of PONV. Refresher Course Lecture at American Society of Anesthesiologists Annual Meeting. Orlando, FL. October 16-21, 2008.
- 40. Will NK1 Antagonists Have a Role in my Practice? Postgraduate Assembly in Anesthesiology. New York City, NY. December 12-16, 2008.
- 41. Management of Postoperative Nausea and Vomiting in an Ambulatory Setting. Hospital for Special Surgery. New York City, NY. January 29, 2009.
- 42. Consensus Panel Recommendations for the Management of PONV. Medical University of South Carolina. Charleston, SC. February 17, 2009.
- 43. Consequences of Hypovolemia: Theories and Basic Science. Great American Fluid Debate. San Diego, CA. March 12, 2009.
- 44. Recommendations for the Management of PONV. IARS Annual Meeting. San Deigo, CA. March 15, 2009.
- 45. Consensus Panel Recommendations for the Management of PONV. UCLA. Los Angeles, CA. April 28-29, 2009.
- 46. Practical Considerations for the Society for Ambulatory Anesthesia PONV Consensus Guidelines. AANA Symposium. San Diego, CA. August 10, 2009.
- 47. Effective Management of PONV and Pain in Ambulatory Settings. Refresher Course Lecture at American Society of Anesthesiologists Annual Meeting. New Orleans, LA. October 15 21, 2009.
- 48. Effective Management of PONV. 6<sup>th</sup> Annual Anesthesiology Convention. Puerto Rico. November 5-8, 2009.
- 49. 1) Postoperative nausea and vomiting. 2) What Anesthesiologists need to know about acupuncture.
  3) New drugs in anesthesia. 3<sup>rd</sup> Annual Emerging Technologies in the OR. Lake Buena Vista, FL. June 9-10, 2010.

- 50. Effective Strategies for Acute Pain Management. 8<sup>th</sup> Annual Need to Know of Ortho Conference. Greensboro, NC. September 2, 2010.
- 51. Effective Management of Pain and PONV in Ambulatory Surgery. Refresher Course Lecture. 2010 American Society of Anesthesiologists Annual Meeting. San Diego, CA. October 15-19, 2010.
- 52. PONV: Can we ever get rid of it? University of Miami. Miami, FL. November 4, 2010.
- 53. New Advances in Non-Invasive Cardiac Output Monitoring. Does it Improve Outcome? Cleveland Society of Anesthesiologists Meeting. Cleveland, OH. November 6, 2010.
- 54. PONV: Systematic Risk Assessment and Appropriate Preventive Treatments. Satellite Symposium at Postgraduate Assembly in Anesthesiology. New York City, NY. December 12, 2010.
- 1) Minimally Invasive Cardiac Output Monitors. 2) Effective Opioid Adjuncts in Ambulatory Surgery. 3) Perioperative Fluid Management: Voodoo or Science. 4) Postoperative Nausea and Vomiting...Yes, There are New Strategies. CSA Winter Hawaiian Seminar. Ka'anapali Beach, Maui. January 23-28, 2011.
- 56. 1) Crystalloids and Colloids Is There Still a Controversy? 2) Practical Application of GDT in Clinical Settings. Goal Directed Therapy Symposium. Newport Beach, CA. June 4 & 5, 2011.
- 57. PONV: How Far Have We Come? The American Association of Nurse Anesthetists Annual Meeting. Boston, MA. August 9, 2011.
- 1) Perioperative Fluid Optimization with Goal Directed Therapy. 2) RCL: Effective Management of Pain, PONV, & Opioid Side Effects in Ambulatory Surgical Patients. American Society of Anesthesiologists Annual Meeting. Chicago, IL. October 13-18, 2011.
- 59. Perioperative Fluid Management Voodoo or Science? Presbyterian Anesthesia Associates Fall Conference. Charlotte, NC. October 29, 2011.
- 60. Analgesia Management for the Perioperative Patient. WakeMed Health & Hospitals. Raleigh, NC. December 22, 2011.
- 61. 1) "Starches New Developments" 2) "Minimally invasive cardiac monitors". Winter Anesthesia & Critical Care Review. Park City, UT. March 6-9, 2012.
- 62. New Options in Plasma Volume Expansion in the OR & ICU. University of Tennessee Medical Center. Knoxville, TN. May 2, 2012.
- 63. Perioperative Fluid Management: Aquatic Assasins? Annual IARS Meeting. Boston, MA. May 18 21, 2012.
- 64. PONV Guidelines. Annual SAMBA Meeting. Miami, FL. May 3-5, 2012.
- 65. Perioperative Hemodynamic Optimization Is it Ready for Prime Time? Third Annual State of the Science Symposium. Miami, FL. June 9, 2012.

- 1) HES Ideal Fluid or a Dangerous Solution?
   2) Advances in Postoperative Surgery. Rewriting the Textbook.
   5<sup>th</sup> Annual Emerging Technologies in the OR and Great Fluid Debate. Lake Buena Vista, FL. June 11 15, 2012.
- 67. PONV and the use of Transderm Scop. University of Vermont. Burlington, VT. July 18, 2012.
- 68. PONV and the use of Transderm Scop. Cedar Sinai Medical Center. Los Angeles, CA. August 29, 2013.
- 69. Non-opioid Options for the Management of Post-surgical Pain. Fairview Hospital. Cleveland, OH. September 19, 2012.
- Effective Management of Pain, PONV and other Opioid Related Side Effects in Ambulatory Surgical Patients. American Society of Anesthesiologists Annual Meeting. Washington, DC. October 13 – 17, 2012.
- 71. The Role of Perioperative Fluid Management and Patient Outcome. Mid Michigan Medical Center. Midland, MI. December 3, 2012.
- 72. Controversies in Perioperative Fluid Management. NJ Medical School, Newark, NJ. March 6, 2013.
- 73. Enhanced Recovery after Surgery (ERAS) Program: Can You Afford Not to Adopt It?". University of Miami. Miami, FL. June 13, 2013.
- 74. Enhanced Surgical Recovery Program: The Role of the Anesthesiologist, Moderator/Speaker, IARS Meeting and International Science Symposium, May 18, 2014, Montreal, Canada.
- 75. Bupivacaine Reduced Pain Intensity for 72 Hours Following Abdominal Surgery Relative to Bupivacaine HCI, ASA, New Orleans, LA, Oct. 11, 2014.
- 76. Effective Management of Pain, PONV and Common Adverse Effects of Ambulatory Surgical Patients, ASA, New Orleans, LA, Oct. 12, 2014.
- 77. EXPAREL: A Novel Liposomal Extended-Release Bupivacaine Formulation, ASA, New Orleans, LA, Oct. 13, 2014.
- 78. Novel Antiemetics. Are they better than what we have?, ASA, New Orleans, LA, Oct. 14, 2014.
- 79. Effective Management of Pain, PONV and Common Adverse Effects in Ambulatory Surgical Patients, ASA Meeting, New Orleans, LA, Oct. 11-15, 2014.
- 80. Fluid Management in Surgical Patients An Integral part of the ERAS Strategy. Annual Whitacre CME Lecture and Dinner, Cleveland, OH, Nov. 1, 2014.
- 81. How to Create an Effective Mentorship Program, PGA Conference, FAER Scientific Panel, Marriott Marquis, NY, Dec. 13, 2014.
- 82. Evolving Role in Perioperative Care and Transderm Scope, Transderm Scope Speaker Dinner, New York, NY, Dec. 12, 2014.

- 83. Lecture on Enhanced Recovery, Melville, NY, Jan. 12, 2015.
- 84. Review Course Lecture on Enhanced Recovery after Surgery (ERAS), 2015 Annual International Anesthesia Research Society (IARS), Honolulu, HI, March 22, 2015.
- 85. Evolving Role in Perioperative Care and Transderm Scop, Garden City, NY, March 25, 2015.
- 86. SAMBA 30<sup>th</sup> Annual Meeting, General Session 4: Post-operative/Recovery Room, Update on PONV, Scottsdale, AZ, April 23, 2015.
- 87. SAMBA 30<sup>th</sup> Annual Meeting, Consult the Expert: Update on PONV Dr. Gan, Scottsdale, AZ, April 24, 2015.
- 88. Consult the Expert: Update on PONV, SAMBA, Scottsdale, AZ, April 24, 2015.
- Successful Pain and Opioid Reduction Strategies. ERAS Congress, Washington, DC, May 8-12, 2015.
- 90. Enhanced Recovery and Fluid Management, Radnor, PA, May 18, 2015.
- 91. Goal Directed Fluid Therapy: An Integral Part of the Enhanced Recovery Program, Troy, MI, June 24, 2015.
- 92. Enhanced Recovery after Surgery: The Role of Multimodal Pain Management, Second Annual Perioperative Surgical Home Summit, Huntington Beach, CA, June 27, 2015.
- 93. The Use of Multimodal Analgesia in Treating Acute Pain: A Focus on Quality of Patient Care, Garden City, NY, August 24, 2015.
- 94. Enhanced Recovery after Surgery-A Look into the Future of Perioperative Care, ASA, San Diego, CA, October 26, 2015.
- 95. Enhanced Recovery Program. Tapping the Low Hanging Fruits to Improve Outcomes, ASA, San Diego, CA, October 27, 2015.
- 96. Pulse Pressure and Postoperative Acute Kidney Injury after Noncardiac Surgery, ASA, San Diego, October 27, 2015.
- 97. The Use of Multimodal Analgesia in Treating Acute Pain: A Focus on Quality of Patient Care, St. Francis Hospital, Hartford, CT, November 10-11, 2015.
- 98. Presentation TITLE? to Forest Hills Hospital Faculty, Capital Grille Restaurant, Garden City, NY, November 18, 2015.
- 99. Consensus Guidelines for the Management of PONV, CSA Fall Anesthesia Conference, Kuai, Hawaii, November 2, 2015.

- 100. Non-Opioid Analgesics: Recipes for Success, CSA Fall Anesthesia Conference, Kuai, Hawaii, November 2, 2015.
- 101. Advanced Hemodynamic Monitors: Do We Need Them? CSA Fall Anesthesia Conference, Kuai, Hawaii, November 3, 2015.
- 102. Controversies in Perioperative Fluid Management, CSA Fall Anesthesia Conference, Kuai, Hawaii, November 4, 2015.
- 103. The Use of Multimodal Analgesia in Treating Acute Pain: A Focus on Quality of Patient Care, New York, NY, December 12, 2015.
- 104. Clinical Considerations in Modern Inhaled Anesthetics, New York, NY, December 13, 2015.
- 105. The Use of Multimodal Analgesia in Treating Acute Pain: A Focus on Quality of Patient Care, Cleveland, OH, February 10, 2016.
- 106. Presentation on Enhanced Recovery, Cleveland Clinic, Cleveland, OH, February 11, 2016.

### **National Panels**

- 1. Panel on Ambulatory Anesthesia Research, "Analgesics and Outcome after Ambulatory Anesthesia: Is There an Association?" SAMBA Mid-Year Meeting, October 22, 2004, Las Vegas, NV.
- 2. New Opioid Panel Discussion. IARS 79th Clinical & Scientific Congress, Honolulu, Hawaii, March 11, 2005.
- 3. Point-Counterpoint: "The Black Box Warning on Droperidol should be Removed", ASA Meeting, Chicago, IL, October 16, 2006.
- 4. Panel: Pharmacoeconomics and Evidence-Based Practice: Dispelling Practice Myths and Urban Legends, "Older Antiemetics are Dangerous and Should Not Be Used", ASA Meeting, Chicago, IL, October 17, 2006.
- 5. Adverse Drug Reactions. IARS Meeting, Orlando, FL, March 24, 2007.
- 6. SAMBA Controversies in Ambulatory Anesthesia. "The Role of Non-Opioid Analgesics in Ambulatory Patients", IARS Meeting, Orlando, FL, March 25, 2007.
- General Session 5: "Do I Really Need a New Anti-Emetic?" SAMBA 22nd Annual Meeting, San Diego, CA, May 6, 2007.
- 8. Point Counterpoint Moderator: "Controversies in the Management of PONV. ASA Annual Meeting, San Francisco, CA, October 13, 2007.
- 9. Panel: Noninvasive cardiac output: myth or reality? "Pressure Wave Analysis Techniques, ASA Annual Meeting, San Francisco, CA, October 14, 2007.
- 10. Panel: Minimally Invasive Cardiac Output Technology, "Flow-based Cardiac Output Monitoring", ASA Annual Meeting, San Francisco, CA, October 15, 2007.
- 11. Panel: New Frontiers in Anesthetic Pharmacology. IARS Annual Meeting. San Francisco, CA. March 28 31, 2008.
- 12. Panel: New Pharmacology Options in Ambulatory Surgery. ASA Annual Meeting, Orlando, FL. October 16-21, 2008.
- Panel: SAMBA Hot Issues in Ambulatory Anesthesia. Panel: The Great American Fluid Panel, Goal Directed Fluid Management. IARS Annual Meeting. San Deigo, CA. March 13-16, 2009.
- Panel: Enhancing Recovery in Open Abdominal Surgery. Panel: Translating Research into Ambulatory Anesthesia Practice. American Society of Anesthesiologists Annual Meeting. New Orleans, LA. October 15 – 21, 2009.
- Panel: Improving Outcomes in Colorectal Surgical Patients. Panel: Opioid Adjuncts in Ambulatory Practice. American Society of Anesthesiologists Annual Meeting. San Diego, CA. October 15-19, 2010.

- 16. Panel: Multimodal Therapies "What is the Optimal Multimodal Approach to Managing PONV? and Consult the Experts "PONV". SAMBA Annual Meeting. San Antonio, TX. May 4-7, 2011.
- Perioperative Outcomes. What are Important and How to Reduce Them? 2) Tracking Outcomes in the ASC – What's in it for Me? American Society of Anesthesiologists Annual Meeting. Chicago, IL. October 13-18, 2011.
- 1) Which Fluid Should I Use? 2) Goal Directed Therapy. Winter Anesthesia & Critical Care Review. Park City, UT. March 6-9, 2012.
- 1) Controversies in Fluid Management, Fluid Debate. 2) Perioperative Care of Patients Undergoing Major Surgery. 5<sup>th</sup> Annual Emerging Technologies in the OR and Great Fluid Debate. Lake Buena Vista, FL. June 11 – 15, 2012.
- 1) The Role of Non-opioid Analgesic Adjuncts. Should I Incorporate the Following Drugs into my Ambulatory Anesthesia Practice?
   2) Outcomes in Anesthesia: What Have We Learned.
   3) Optimization of the High Risk Surgery Patient: How can we Improve Postoperative Outcome?
   4) Applied Cardiovascular Physiology in the ICU. American Society of Anesthesiologists Annual Meeting. Washington, DC. October 13 17, 2012.
- 1) Update on Acute Pain Management.
   2) Anesthetic Considerations for Ambulatory Surgery.
   66<sup>th</sup> Annual Postgraduate Assembly in Anesthesiology. New York City, NY. December 14 18, 2012.
- 22. How can Anesthesiologists Improve Outcomes? American Society of Anesthesiologists Annual Meeting. San Francisco, CA. October 15, 2013.
- 23. Novel Drugs in Ambulatory Practice. How Would They Change Your Practice? American Society of Anesthesiologists Annual Meeting, New Orleans, LA. Oct. 11-15, 2014.
- 24. Exparel: A Novel Lipsomal Extended-Release Bupivacaine Formulation. American Society of Anesthesiologists Annual Meeting, New Orleans, LA. Oct. 11-15, 2014.
- 25. Sedation for Procedures: Personnel Driven?, PGA Conference, 31<sup>st</sup> Annual R.W. Robertazzi Memorial Panel: Current Controversies in the Art and Science of Anesthesiology, New York, NY, December 12, 2015.
- 26. Scientific Panel, Optimizing Postoperative Care, PGA Conference, New York, NY, December 15, 2015.

## **Department Grand Round**

- 1. What have we learned after 1001 papers on postoperative nausea and vomiting? Department of Anesthesia, Duke University Medical Center, Durham, North Carolina. June, 1998.
- 2. Acupuncture: from basic science to clinical practice. Hyperbaric Grand Rounds. Duke University Medical Center. Durham, North Carolina. March, 2002.
- 3. Update on management of PONV. Department of Urology Grand Rounds. Duke University Medical Center, Durham, North Carolina. September, 2002.

- 4. IRB Issues. Department of Anesthesia, Duke University Medical Center, Durham, North Carolina. June 18, 2003.
- 5. Perioperative Fluid Management. Department of Anesthesia, Duke University Medical Center, Durham, North Carolina. August 13, 2003.
- 6. Novel Anesthetic Drugs and Delivery Systems. Department of Anesthesia, Duke University Medical Center, Durham, North Carolina. May 1, 2013.
- 7. Good to Great. A Journey, Not a Destination, Department of Anesthesiology, Stony Brook University, Stony Brook, NY, September 24, 2014
- 8. State of the Department, Department of Anesthesiology, Stony Brook University, Stony Brook, NY, December 2, 2015

### **Duke Outreach Program**

- 1. Update on acute pain. Four County Medical Society, Henderson, North Carolina. November, 1997.
- 2. New alternatives in the management of postoperative nausea and vomiting. Elm City, NC. November, 1998.

### **Residents and Medical Students Lectures**

- 1. Does naloxone have opioid sparing effects? Pain Conference. Duke University Medical Center, Durham, NC. January 1997.
- 2. Board Preps. Duke University Medical Center, Durham, NC. June, 1997.
- 3. Intravenous anesthetics. Resident lecture. Duke University Medical Center, Durham, NC. August, 1997.
- 4. Postoperative nausea and vomiting. Causes and treatment. Resident lecture. Duke University Medical Center, Durham, NC. February, 1999.
- 5. IRB Human studies. AEP lecture for medical students. Duke University Medical Center, Durham, NC. October, 1999.
- 6. PACU problems. CA-1 resident lecture. Duke University Medical Center, Durham, NC. July, 2000.
- 7. IRB Human studies. AEP lecture for medical students. Duke University Medical Center, Durham, NC. September, 2000.
- 8. Clinical research asking and answering cool pharmacologic questions in the operating room. Resident lecture. Duke University Medical Center, Durham, NC. February, 2001.
- 9. Applications of acupuncture. DCIM lecture for medical students. Duke University Medical Center, Durham, NC. April, 2001.

- 10. Applications of acupuncture. DCIM lecture for medical students. Duke University Medical Center, Durham, NC. February, 2002.
- 11. Management of PONV. Lecture for Nurse Anesthetist Students. Duke University Medical Center, Durham, NC. April 2, 2003.
- 12. PONV. Resident lecture. Duke University Medical Center, Durham, NC. May 14, 2003.
- 13. BIS. Resident lecture. Duke University Medical Center, Durham, NC. August 27, 2003.
- 14. Role of COX-2 in pain management. Duke University Medical Center, Durham, NC. November 10, 2003.
- 15. Management of PONV. Lecture for Nurse Anesthetist Students. Duke University Medical Center, Durham, NC. March 15, 2004.
- 16. Fluids. Resident lecture. Duke University Medical Center, Durham, NC. November 10, 2004.
- 17. Management of PONV. Lecture for Nurse Anesthetist Students. Duke University Medical Center, Durham, NC. April 20, 2005.
- 18. What's New in Perioperative Fluid Management. Cleveland Clinic. Cleveland, OH. August 20, 2008.
- 19. Perioperative Fluid Management. Is There a Right Way? UCLA. Los Angeles, CA. April 28, 2009.
- 20. Cardiac Output Monitors. CA 2/3 Lecture. Duke University Medical Center, Durham, NC. August 15, 2012.
- 21. Picking and Developing a Research Career Focus and Making it Relevant to Clinicians. Fellow Lecture. Duke University Medical Center, Durham, NC. October 25, 2012.