

2010-11

ANESTHESIA



UNIVERSITY OF TORONTO

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CHAIR'S INTRODUCTION

DR. BRIAN KAVANAGH

Welcome to the 2010-2011 Annual Report from the Department of Anesthesia at the University of Toronto which provides an overview of what our department members have accomplished over this, our 60th year, as an autonomous department in the Faculty of Medicine.

Our educational mission starts with the medical students who we have the privilege to teach. In 2010-11 there were major changes to the undergraduate training with Anesthesia now placed at an earlier stage in the curriculum providing medical students with an earlier exposure to Anesthesia and enhancing their ability to seriously consider the profession as they make important career choices towards the end of their medical school training. This year also, restructuring of the Faculty-wide undergraduate program created a 'double cohort' of students who were seamlessly accommodated with careful planning and immense effort on the part of our teachers. For medical students, the Anesthesia Interest Group continues to be an important source of information for those contemplating a career in anesthesia.

Linking our residency program with medical school graduates is the CaRMS match: the calibre of our 'recruits' in 2011 was again very high, auguring well for residency standards in the years to come. Among the residents already in our program, we have some excellent researchers and educationalists, and with leaders in the resident sections of the Canadian Anesthesiologists' Society and PAIRO among our numbers, we can look forward to inspired political engagement. Entry into fellowship programs after residency is increasingly becoming the norm and paralleling this trend, the standardization of many aspects of our fellowships across the university department is being progressively developed. Continuing medical education is a major success story in our department with 16 postgraduate courses, in addition to on-line programs, focusing on many aspects of practice and professional development. In conjunction with this, faculty development over the last year has been expanded to include the new faculty experience program and an enhanced faculty development day. The Family Practice Anesthesia Residency Training Program, based at Toronto East General Hospital and run collaboratively by the Departments of Anesthesia and Family and Community Medicine continues to be highly successful.



WE WORK IN A FANTASTIC DEPARTMENT THAT MAKES MAJOR CLINICAL AND ACADEMIC CONTRIBUTIONS ON A LOCAL, NATIONAL AND WORLD-WIDE BASIS.

We have had a terrific year in terms of research productivity. Indeed our department's rankings in terms of publications and citations in anesthesia are second only to Harvard University among centres in North America. Our Merit Award system continues to lead the way as a peer-reviewed mechanism to allocate university-derived dollars that are generously matched by our practice plans. Our peer-reviewed funding and publications in good-impact peer-reviewed journals reflect our research success.

The major professional practice issue of the last five years has been the success of the Anesthesia Care Team concept – now firmly integrated into the perioperative fabric of most of the affiliated hospitals; this has increased the efficiency and cost-benefit profile of many aspects of our clinical care.

Expanding the horizons of our educational and professional practice is our commitment to improving anesthesia in the developing world. This approach, practiced for numerous years by many of our faculty, is now a focus of our strategic plan and will broaden the application of our expertise as well as teach us much about the worth of our profession.

In summary, you will see from this report that we work in a fantastic department that makes major contributions on a local, national and world-wide basis ... don't hesitate to get involved, or more involved, and make it even better.

Sincerely,

A handwritten signature in black ink that reads "Brian Kavanagh". The signature is fluid and cursive, with a long horizontal stroke at the end.

BRIAN KAVANAGH
PROFESSOR AND CHAIR



OUR VISION The provision of safe and innovative anesthetic, analgesic, perioperative and critical illness management for our patients.

OUR MISSION The delivery and promotion of preeminent perioperative patient care through continued vigilance, innovation, and scholarship.

OUR VALUES Our values are the principles by which we guide our mission and reflect the values articulated by our university faculty and our core clinical institutions. We cherish the following values:

- Integrity;
- Commitment to innovation and excellence;
- Life-long learning and critical inquiry;
- Diversity and social justice;
- Partnership with our health science centers;
- Collaboration among disciplines, professions, and in our community;
- Support and collegiality;
- Accountability; and,
- Responsiveness to those whom we serve

ANESTHESIA LEADERSHIP

OFFICE OF THE CHAIR AND ADMINISTRATION

Dr. Brian Kavanagh	Chair
Dr. Gerald O'Leary	Vice Chair, Clinical Practice
Dr. Patricia Houston	Vice Chair, Education
Dr. David Mazer	Vice Chair, Research
Ms. Wendy Kubasik	Business Manager (Until April 2011)
Dr. Craig Daniels	Business Manager

ANESTHESIOLOGISTS-IN-CHIEF (FULLY AFFILIATED HOSPITALS)

Dr. Mark Crawford	The Hospital for Sick Children
Dr. Gil Faclier	Sunnybrook Health Sciences Centre
Dr. Patricia Houston	St. Michael's Hospital
Dr. Jean Kronberg	Women's College Hospital
Dr. Gerald O'Leary	University Health Network (TGH, TWH, Mount Sinai Hospital)

UNDERGRADUATE EDUCATION PROGRAMS

Dr. Isabella Devito	Director
Dr. James Robertson	Electives Coordinator
Dr. Darryl Irwin	Preclerkship Coordinator
Dr. Anita Sarmah	Simulation Coordinator
Dr. Ryan Mai	OSCE Committee Representative
Mr. Gary Cronin	Program Assistant

SITE COORDINATORS

Dr. Lisa Bahrey	Year 3 UHN (Toronto General Hospital)
Dr. Diana Tamir	Year 4 UHN (Toronto General Hospital)
Dr. Dragan Djordevic	Year 3 Women's College Hospital
Dr. Vinod Chinnappa	Year 4 Women's College Hospital
Dr. Darryl Irwin	Year 3 Mount Sinai Hospital
Dr. Mital Joshi	Year 4 Mount Sinai Hospital
Dr. Ryan Mai	Year 3 St. Michael's Hospital
Dr. Carol Loffelmann	Year 4 St. Michael's Hospital
Dr. Anahi Perlas	Year 3 UHN (Toronto Western Hospital)
Dr. Ahtsham Niazi	Year 4 UHN (Toronto Western Hospital)
Dr. Anita Sarmah	Year 3 Sunnybrook Health Sciences Centre
Dr. Mabel Choi	Year 4 Sunnybrook Health sciences Centre
Dr. Patrick Mark	Year 3 & 4 Toronto East General Hospital
Dr. James Robertson	Year 4 The Hospital for Sick Children
Dr. Suzanne Lilker	Year 4 St. Joseph's Health Centre
Dr. Hossam El Beheiry	Year 4 Trillium Health Centre
Dr. Larry Panos	Year 4 The Scarborough Hospital- General Division
Dr. Alan Tallmeister	Year 4 The Scarborough Hospital- Birchmount

POSTGRADUATE EDUCATION PROGRAMS

Dr. Mark Levine	Director
Dr. Henderson Lee	Director, Family Practice Anesthesia
Dr. Megan Hayter	Anesthesia Simulator Coordinator
Dr. Beverly Morningstar	Resident Counselor
Dr. David McKnight	Vice Chair Education
Dr. David Mazer	Vice Chair Research
Ms. Jennifer Morris	Program Assistant

SITE COORDINATORS

Dr. Deven Chandra	St. Michael's Hospital
Dr. Kathleen Dattilo	UHN (Toronto General Hospital)
Dr. Martin Ma	UHN (Toronto General Hospital)
Dr. Howard Fischer	Mount Sinai Hospital
Dr. Marianne Graham	Sunnybrook Health Sciences Centre
Dr. Stephen Halpern	Women's College Hospital
Dr. Mojgan Davallou	Women's College Hospital
Dr. Vaibhav Kamble	Toronto East General Hospital
Dr. Henderson Lee	Family Practice Anesthesia Program
Dr. Sunita Sastry	UHN (Toronto Western Hospital)
Dr. Elaine Ng	Hospital for Sick Children

FELLOWSHIP EDUCATION PROGRAMS

Dr. Doreen Yee	Director, Fellowship Programs
Ms. Jennifer Morris	Program Assistant

SITE COORDINATORS

Dr. Jose Carvalho	Mount Sinai Hospital (Obstetric Anesthesia)
Dr. Stephen Halpern	Women's College Hospital
Dr. Jane Heggie	UHN (Toronto General Hospital)
Dr. Paul McHardy	Sunnybrook Health Sciences Centre
Dr. Mary McLoone	St. Michael's Hospital
Dr. Atul Prabhu	UHN (Toronto Western Hospital)
Dr. Gail Wong	Hospital for Sick Children
Dr. Aliya Salman	Mount Sinai Hospital

CONTINUING EDUCATION AND PROFESSIONAL DEVELOPMENT

Dr. Peter Slinger	Chair
Dr. Zeev Friedman	Chair, Annual Shields Research Day 2011
Dr. Peter Slinger/Martin van der Vyver	Co-Chairs, Faculty Development Day 2010

DEPARTMENT COMMITTEES

EXECUTIVE COMMITTEE	B. Kavanagh (Chair), M. Crawford, G. Faclier, P. Houston, J. Kronberg, W. Kubasik (Secretary), D. Mazer, G. O’Leary
EDUCATION COUNCIL	P. Houston (Chair), I. Devito, B. Kavanagh, H. Lee, M. Levine, P. Slinger, D.Yee
DEPARTMENTAL APPOINTMENTS COMMITTEE	D. McKnight (Chair), R. Crago, S. Halpern, W. Kubasik (Secretary), B. Macpherson, M. O’Driscoll, J. Wassermann
PROMOTIONS COMMITTEE	G. Fox (Chair), V. Chan, F. Chung, P. Houston, C. Karsli, J. Katz, B. Kavanagh (ex-officio), W. Kubasik (Secretary), D. Mazer, C. McCartney, P. Morgan, B. Orser
UNDERGRADUATE EDUCATION COMMITTEE	I. Devito (Chair), L. Bahrey, V. Chinnappa, M. Choi, G. Cronin (Secretary) D. Djordjevic, H. El Beheiry, P. Houston, D. Irwin, M. Joshi, B. Kavanagh, S. Lilker, C. Loffelmann, R. Mai, P. Mark, D. McKnight, A. Niazi, L. Panos, A. Perlas, J. Robertson, A. Sarmah, A. Tallmeister, D. Tamir
POSTGRADUATE EDUCATION	M. Levine (Chair), A. Alam, D. Chandra, K. Dattilo, H. Fischer, M. Graham, S. Halpern, P. Houston, V. Kamble, B. Kavanagh, K. Kirkham, D. Mazer, B. Morningstar, J. Morris (Secretary), E. Ng, S. Sastry, N. Soneji, J. Tarshis
FELLOWSHIP EDUCATION	D. Yee (Chair), J. Carvalho, S. Halpern, J. Heggie, P. McHardy, M. McLoone, J. Morris (Secretary), A. Prabhu, G. Wong, E. You-Ten
CONTINUING EDUCATION/ PROFESSIONAL DEVELOPMENT	P. Slinger (Chair), P. Angle, S. Davies, L. Eisen, M. Friedlander, P. Houston, L. Isaac, B. Kavanagh, J. Kay, C. Knapp, A. Rigamonti, J. Tarshis, L. Venkatraghavan, M. van der Vyver
RESEARCH COMMITTEE	D. Mazer (Chair), A. Baker, S. Beattie, M. Crawford, Z. Friedman, S. Halpern, S. Kapoor, B. Kavanagh, M. Levine, A. MacArthur, D. McKnight, B. Orser, G. Petroz, D. Yee
SHIELDS DAY 2010 PLANNING COMMITTEE	Z. Friedman (Chair), B. Kavanagh, W. Kubasik
FACULTY DEVELOPMENT DAY 2010 PLANNING	P. Slinger, M. van der Vyver (Co-chairs), B. Kavanagh, W. Kubasik

FACULTY AND AFFILIATED HOSPITALS

The University of Toronto and thus, the Department of Anesthesia, has full affiliation agreements with seven Toronto-area hospitals. We have more than 270 full-time faculty members at the following hospitals (please see our website at www.anesthesia.utoronto.ca for a full list of our faculty members, including biographical information):

- Mount Sinai Hospital
- St. Michael’s Hospital
- Sunnybrook Health Sciences Centre
- The Hospital for Sick Children
- University Health Network (includes Toronto General Hospital and Toronto Western Hospital)
- Women’s College Hospital

We are proud we have built strong relationships with several partially affiliated or community-based hospitals. Our clerks and residents participate in educational programs at these hospitals, and we have more than 80 part-time faculty members. Our community affiliates include:

- Credit Valley Hospital
- Humber River Regional Hospital
- North York General Hospital
- Royal Victoria Hospital (Barrie)
- The Scarborough Hospital
- St. Joseph’s Health Centre (Toronto)
- Toronto East General Hospital
- Trillium Health Centre

STRATEGIC PLAN 2009-2014 PROGRESS

In 2010-2011, the UT Department continued the implementation of the strategic priorities outlined in our Strategic Plan 2009-2014 (see anesthesia.utoronto.ca/about/strategy.htm for the complete plan). We have made significant progress in the implementation of the priorities, which include:

PRIORITY 1: ADVANCEMENT, ADVOCACY AND ALUMNI PROGRAMS

The university department has developed and implemented an alumni database and email listserve which includes contact information for more than a thousand of our alumnus across Canada. A communications program has been implemented, and our alumni receive information such as our strategic plan, annual report, the Morpheus Reporter, and invitations to major events and lectures.

In addition, Dr. Stephen Brown, President of the UT Anesthesia Alumni Society and the Alumni Committee (Dr. Doreen Yee, Dr. Charles Knapp, Dr. John Hanlon, Dr. Ann Grise and Dr. Richard Ahn) have been very active. An information session for our alumni was held at the Ontario Medical Association (OMA) meeting in October of 2010 and an Alumni Reunion was held in June 2011 at the Canadian Anesthesiologists Society meeting. An additional Alumni Association sponsored event will be held to recognize the long service of faculty members in October 2011 and will also celebrate the UT Department of Anesthesia's 60th Anniversary.

Plans for an advancement campaign are underway, and the Alumni Committee is working on an Alumni Survey (May 2012) and an Alumni Recognition Award (June 2012).

PRIORITY 2: ACADEMIC PRODUCTIVITY – MEASUREMENT AND ACCOUNTABILITY

A Task Force – led by Drs. Mark Crawford (Anesthesiologist-in-Chief, The Hospital for Sick Children) and Dr. Gerald O'Leary (Anesthesiologist-in-Chief, UHN-MSH) has been struck. A project charter, project plan and key deliverables have been developed in consultation with representatives from the local teaching hospitals and Business Managers from the practice plans. Plans to develop an online database to collect data on teaching and research activities are underway including the development of a data collection scheme, teaching activities to be included, and metrics to measure performance. Next steps include an extensive consultative process with our Executive Committee and faculty at our fully affiliated hospitals. The goal is to develop a streamlined, simplified yet comprehensive report format that can be adopted across all of the hospital sites. Most importantly perhaps, our current evaluations process must be fully assessed, and a common methodology should be implemented. This involves a review of our evaluations processes and tools that are currently available (e.g., POWER, MedSIS, Survey Monkey, etc.).

PRIORITY 3: FACILITATING EDUCATORS

The goals of this strategic priority are well underway. Under the leadership of the Dr. David McKnight, Vice Chair Education, and the Education Council – comprised of the Directors of our education programs and the departmental Chair. Dr. Martin van der Vyver (Sunnybrook Health Sciences Centre), has been appointed Director of Faculty Development Programs, and has implemented a new "First Year Faculty Experience Program" which commenced in September 2010. All new faculty (two years or less service to the University) attended monthly sessions over the course of eight months. This is a novel initiative in the Faculty of Medicine and aims to provide new faculty with the tools to become exceptional educators. Plans are also underway for a program which provides additional mentorship opportunities for our new faculty members.

In November 2010, the University department organized Faculty Development Day 2010 – more than 100 of our faculty and fellows attended this event. Further details on the event are available in the report from Dr. Martin van der Vyver. The growth and further development of this important event has been a key priority and its continued success has allowed Faculty Development Day to become an important regular feature of our annual program.

Additional awards to recognize outstanding teaching contributions have also been created, both in the university departments and the hospitals. These include the Inter-professional Teaching Award and the award for Best Oral Presentation at the annual Faculty Development Day event.

A plan to better integrate our faculty in the affiliated community hospitals is also underway. We have recently created the “Council of Community Chiefs”; and plans to extend our faculty development programs to the community sites have also been started.

PRIORITY 4: FACILITATING LEARNERS

New Program

Global Health Issues and Social Responsibility in Anesthesia

In 2010-2011, efforts were concentrated on the development of a global health and social responsibility program in anesthesia. Dr. Greg Silverman was selected to drive this initiative and he has made significant headway in the implementation of the Toronto Addis Ababa Academic Collaboration (TAAAC). The University of Toronto, Department of Anesthesia is responsible for organizing 3 separate month-long teaching missions to Addis Ababa University (AAU) in Ethiopia. The purpose of these trips is to provide ongoing educational support to the anesthesia faculty at AAU who are responsible for delivering both undergraduate and postgraduate teaching. This initiative is going a long way toward realising our objective to “Initiate educational programs to train anesthesiologists and relevant allied health professionals overseas with an aim of establishing self-sustaining educational systems.”

PRIORITY 5: RESEARCH

Since 2009, the department has facilitated a competitive, peer-reviewed Merit Awards program to fund time through the practice plans for our researchers to conduct academic activities. The recipients of all merit awards are listed below. The goal is to facilitate world-class research that has both translational and global impact. Our success in this area is outlined in the report provided by Dr. David Mazer, Vice Chair of Research.

Our third biennial competition will be held in 2013. In addition, a major new, competitive, one-time-only, “Multicentre Inter-Hospital Clinical Trials Grant Competition” was held in early 2011. This competition was developed in order to provide seed funding for a major clinical trial led by full-time faculty members in our department. The goal of the award is to support high-impact, world-class research trials that will attract additional, substantial, peer-reviewed operating grant funding.



RECOGNITION OF EXCELLENCE: HONORS, AWARDS, CHAIRS AND PROMOTIONS

The following University department awards were presented at the 32nd Annual Shields Research Day 2011:

- The *Dr. R.J. Byrick Award* recognizes the best fellow's research paper presented at the Annual Shields Research Day: **Sylvain Boet** (Fellow, St Michaels Hospital)
- The *Dr. A.C. Bryan Award* is awarded to a graduate student judged to have presented the best research project at the Annual Shields Research Day: **William To** (Graduate Student, Sunnybrook Health Sciences Centre)
- The *Dr. Hynek Rothbart Award* for the best paper presented by a Resident at the Annual Shields Research Day: **Sinziana Avramescu** (Resident, PGY 3)
- The *Thomas Donald Hammell Memorial Award in Anesthesia*, is awarded in recognition of outstanding contributions to the Residency Program, as chosen by other residents: **Kyle Kirkham** (Resident PGY 5)
- The *UT Anesthesia Best Shields Day Poster Award*: **Daniel Cordovani** (Fellow, Mount Sinai Hospital)
- The *Dr. Evelyn Bateman Award* is awarded in recognition of excellence in anesthesia at the undergraduate level: **Ainsley Sutherland** (Undergraduate MD, Year 4, Wightman Berris Academy, University of Toronto)
- The *UofT Anesthesia Faculty Researcher Award*: **Dr. David Mazer**
- The *Award for Clinical Excellence* is awarded by the UT Department of Anesthesia to full or part time faculty members in the department within each of the fully or partially affiliated hospitals and their respective sites who has been judged by the department's faculty, fellows and residents to be an outstanding clinician within the Anesthesia community:
 - **Dr. Vicky McCarthy** (Lecturer - St. Josephs Health Centre)
 - **Dr. Alayne Kealey** (Lecturer - Sunnybrook Health Sciences Centre)
 - **Dr. James Teresi** (Assistant Professor - UHN – Mount Sinai Hospital)
 - **Dr. Pat McNama** (Assistant Professor - UHN – Toronto General Hospital)
 - **Dr. Atul Prabhu** (Assistant Professor - UHN- Toronto Western Hospital)

The following University department teaching awards were also bestowed in 2010-2011:

- The *Dr. John Desmond Award* recognizes excellence in clinical teaching of undergraduate students:
 - **Dr. Lisa Bahrey** (Assistant Professor, UHN-Toronto General Hospital)
- The *Dr. Gerald Edelist Award* is awarded to a faculty member in recognition of excellence as a clinical teacher of residents in anesthesia: **Dr. Karen McRae** (Associate Professor, UHN – Toronto General Hospital)
- The *Dr. David Fear Award* is awarded for outstanding contributions to continuing medical education and continuing professional development in the Department of Anesthesia: **Dr. Joseph Kay** (Assistant Professor, Sunnybrook Health Sciences Centre)
- The new Interprofessional Teaching Award recognizes outstanding teaching both within and outside of the anesthesia community: **Dr. Claire Middleton** (Assistant Professor, UHN- Toronto General Hospital) and **Dr. Philip Peng** (Associate Professor, UHN- Toronto Western Hospital)

The winner of the Laws Travel Fellowship 2011 was **Dr. Faraj Abdallah** (Fellow), **Dr. Teresa Skelton** (PGY3 Resident). Tuition awards for our residents and fellows – to fund graduate level education programs - were also presented to **Drs. Nam Le, Mirriam Mottiar, Oana Predescu, Teresa Skelton, Zoe Unger and Catherine Wong**

We would like to acknowledge and congratulate the following members of our department, recipients of prestigious awards at the Canadian Anesthesiologists' Society (CAS) meeting in Toronto, Ontario, June 2011:

BEST PAPER IN PATIENT SAFETY

Dr. Ludwik Fedorko

"Avoidance of drug errors by point of care bar coding"

BEST PAPER IN OB ANESTHESIA

Dr. Mrinalini Balki (Co- Investigators Drs Magda Erik-Soussi, John Kingdom, Jose CA Carvalho)

"Myometrial contractions in pregnant rats with combinations of uterotonic drugs"

Dr Earl Wynands/Fresenius Kabi Research Award

Dr. Stuart McCluskey

"Intraoperative Fluid Therapy for Patients Undergoing Deceased Donor Renal Transplantation: A modifiable risk factor for delayed graft function"

Abbott Laboratories New Investigator Award in Anesthesia

Dr. Ki Jinn Chin

"Can anesthesia trainees effectively use ultrasound imaging to facilitate the performance of spinal anesthesia in patients with poorly-palpable surface landmarks?"

Baxter Corporation Canadian Research Award in Anesthesia

Dr. Ahtsham Niazi

"The use of an interactive 3D anatomic model to improve initial performance in ultrasound scanning of the spine"

Congratulations also to our residents who presented in the Resident Competition

Residents' Research Competition, 1st Prize

Dr Sinziana Avramescu (*supervisor Dr. Orser*)

"Inflammation increases the efficacy of anesthetics in mouse neurons"

CAS/Vitaid Residents' Research Grant

Dr Sinziana Avramescu

"Does inflammation alter sensitivity to anesthetics?"

Richard Knill Research Competition, the winner was MSc candidate from St Michael's Hospital

Tina Hu (*collaboratively supervised by Drs. Hare, Beattie and Mazer*)

"Highly Specific beta-1 Antagonism Preserved Brain Perfusion in Anemic Rats"

Resident's Research competition 3rd prize

Dr. Mandeep Singh (Supervisor Dr. Frances Chung)

"Is a higher score on the STOP-Bang questionnaire associated with a higher incidence of postoperative complications?"

DEPARTMENTAL MERIT AWARDS: 2011-2013 CYCLE

The following individuals have received competitive peer-reviewed merit awards through the UT Department of Anesthesia for the period 2011-2013. The next competition will be held in early 2013.

RESEARCH MERIT AWARDS:

RECIPIENT	HOSPITAL	PROJECT TITLE	AWARD VALUE/ ANNUM
Duminda Wijeyesundera*	UHN-Toronto General Hospital	Evaluating preoperative anesthesia care in Ontario at a population-based level	\$80,000
Mrinalini Balki	UHN - Mount Sinai Hospital	Optimizing human myometrial contractility using a combination of uterotonic agents	\$40,000
Eric You-Ten	UHN - Mount Sinai Hospital	Simulation-Based Training on Effective Performance In In-Situ Simulation (STEPS)	\$40,000
David Mazer	St. Michaels Hospital	Improving Outcomes in Cardiac Surgery: Strategies to reduce tissue hypoxia	\$40,000
Gregory Hare	St. Michaels Hospital	Adaptive cellular mechanisms to maintain oxygen homeostasis and promote survival during anemia	\$40,000
Julia Voigtlaender-Bolz	St. Michaels Hospital	Personalized Microvascular Medicine	\$40,000
Andrew Baker	St. Michaels Hospital	The role of endothelial progenitor cells in brain injury repair	\$40,000
Andrea Rigamonti	St. Michaels Hospital	Improving Outcomes in Neurosurgical and Neurocritical Patients	\$40,000
Brian Cuthbertson	Sunnybrook Health Sciences Centre	Measurement of Exercise Tolerance before Surgery (METS) Study: A Multicentre Prospective Study	\$40,000
Colin McCartney	Sunnybrook Health Sciences Centre	Is there any benefit to adding continuous femoral block to local infiltration analgesia for TKA?	\$40,000
Elod Szabo	The Hospital for Sick Children	Mechanism of voltage-gated Na channel-related cardiomyopathy	\$40,000
RECIPIENT	HOSPITAL	PROJECT TITLE	AWARD VALUE/ ANNUM
Gail Wong	The Hospital for Sick Children	Efficacy of L-carnitine in the prevention and treatment of bupivacaine cardiotoxicity in rats	\$40,000
Keyvan Karkouti	Toronto General Hospital	Advance Targeted Transfusion in Anemic Cardiac Surgical Patients for Kidney Protection	\$40,000
Marcin Wasowicz	Toronto General Hospital	Expanding an anesthesiologist's role beyond an operating room	\$40,000
Joseph Fisher	Toronto General Hospital	Translation of new non-invasive monitoring techniques from the bench to the bedside	\$40,000
Scott Beattie	Toronto General Hospital	Clinical decision support reduces serious intra operative hypotension	\$40,000
George Djaiani	Toronto General Hospital	Reducing Delirium After Trans-Apical Aortic Valve Implantation: A Multifaceted Approach Of Periopera	\$40,000
Hance Clarke	Toronto General Hospital	Phenomics & Genomics of Clinically Relevant Chronic Postsurgical Pain: Multicentre Prospective Study	\$40,000
Anahi Perlas	Toronto Western Hospital	Bedside Ultrasound Assessment of Gastric Volume. Validating a mathematical model using gastroscopy	\$40,000
Richard Brull	Toronto Western Hospital	Effect of General vs Regional Anesthesia on Sleep Disordered Breathing in Obstructive Sleep Apnea	\$40,000
Jean Wong	Toronto Western Hospital	Genetic basis of interindividual differences in acute postoperative pain	\$40,000
Pam Morgan	Women's College Hospital	1. Paravertebral Blocks for Breast Cancer Surgery 2. Quality of recovery Following TRAM flap surgery	\$40,000

*award period 2009-14

EDUCATION AND CPA MERIT AWARDS:

RECIPIENT	HOSPITAL	PROJECT TITLE	AWARD VALUE/ ANNUM
Megan Hayter	St. Michaels Hospital	Simulation Based Inter-Professional Health Care Education: the Effect of Mental Practice	\$40,000
Katherine Taylor	The Hospital for Sick Children	Clarity in Critical Moments- Audio Recorded Resuscitation	\$40,000
Greg Silverman	Mount Sinai Hospital	Anesthesia and Global Health: A Curriculum for Anesthesia in Austere Environments	\$20,000
Zeev Friedman	Mount Sinai Hospital	Challenging Authority in a Crisis Situation:A multi-centre simulation study assessing residents' ability	\$20,000
Eric You-Ten	Mount Sinai Hospital	Development and Integration of An Airway Education Module in the Anesthesia Residency Program	\$20,000
RECIPIENT	HOSPITAL	PROJECT TITLE	AWARD VALUE/ ANNUM
Gail Wong	The Hospital for Sick Children	Development of a national Fellowship Curriculum in Paediatric Anesthesia	\$20,000
Ludwik Fedorko	UHN- Toronto General Hospital	Automated process for controlled substance reconciliation and early detection of narcotic diversion	\$20,000
Sheila Riazzi	UHN-Toronto Western Hospital	Advancing the knowledge and understanding of Malignant Hyperthermia (MH)	\$20,000
Ki Jinn Chin	UHN-Toronto Western Hospital	Can novices effectively use ultrasound to facilitate the performance of spinal anesthesia?	\$20,000

RESEARCH CLINICAL TRIALS

In early 2011 The University Department of Anesthesia held a one-time competition for a major new award to support clinical trials within the University of Toronto, Department of Anesthesia. This competitive award will provide seed funding for a major multicentre inter-hospital clinical trial led by a full-time faculty member in the Department of Anesthesia, University of Toronto. The goal is to support high impact, world-class research that will attract additional, substantial peer-reviewed operating funds.

The winner of this award was:

RECIPIENT	HOSPITAL	PROJECT TITLE	AWARD VALUE/ ANNUM
Keyvan Karkouti	UHN-Toronto General Hospital	Advance Targeted Transfusion in Anemic Cardiac Surgical Patients for Kidney Protection (ATTACK): A Multicentre Randomized Trial	\$100,000

ADDITIONAL AWARDS AND HONORS

Finally, we are pleased to report the following honors and awards, received by our faculty members in 2010-2011:

Pamela Angle (Associate Professor – Women’s College Hospital)

- Chair, Obstetrical Anesthesia Section of the Canadian Anesthesiologists Society
- Editorial Board, International Journal of Obstetrical Anesthesia (IJOA), United Kingdom

Lisa Bahrey (Assistant Professor – UHN- Toronto General Hospital)

- UHN-MSH Department of Anesthesia and Pain Management, Dr John Bradley Award for Continued Excellence in Teaching, 2010-2011
- Dr John Desmond Award, 2010

Scott Beattie (Professor – UHN – Toronto General Hospital)

- Chair, R. Fraser Elliot Chair of Cardiac Anesthesia, University Health Network, Toronto General Hospital

Mrinalini Balki (Associate Professor – UHN –Mount Sinai Hospital)

- Best Paper Award in Obstetric Anesthesia, Canadian Anesthesiologists’ Society Annual Meeting, Toronto, Ontario Balki M, Erik-Soussi M, Kingdom J, Carvalho JCA. “Myometrial contractions in pregnant rats with combinations of uterotonic drugs” June 2011.

Anul Bhatia (Assistant Professor – UHN – Toronto Western Hospital)

- Trainee Publication Prize 2010 awarded by the Faculty of Pain Medicine, Royal College of Anaesthetists, United Kingdom, November 2010

Richard Bowry (Assistant Professor – St Michael’s Hospital)

- 1st Place 3M Healthcare Quality Team Award 2011 For “Programs and Processes in an Acute Care Hospital Environment” from 3M and the Canadian College of Health Leaders, June 2011

Robert Byrick (Professor – St Michael’s Hospital)

- John G. Wade Visiting Professor in Patient Safety and Simulation, Royal College of Physicians and Surgeons of Canada, 2010

Hance Clark (Lecturer – UHN – Toronto General Hospital)

- Federal Peer reviewed, CIHR Fellowship Award in the category of Health Professionals, \$50,000. 2009-2010.

Joseph Fisher (Professor – UHN – Toronto General Hospital)

- Ian White Patient Safety Award: Best Paper in Patient Safety. Dr. Ludwik Fedorko, Joseph A. Fisher. Canadian Anesthesiologists’ Society. June 2011.

Zeev Friedman (Associate Professor – Mount Sinai Hospital)

- Chair- Section for Education and Simulation in Anesthesia- Canadian Anesthesiologists’ Society
- Chair- Shields Research Day

Lucia Gagliese (Assistant Professor - UHN – Toronto General Hospital)

- York University Conference Travel Award, August 2010

Marianne Graham (Assistant Professor – Sunnybrook Health Sciences Centre)

- Sunnybrook, Bob McKenzie Clinical Teachers Award, December 2010

Edgar Hockmann (Lecturer – Sunnybrook Health Sciences Centre)

- Sunnybrook Department of Anesthesia Junior Attending Clinical Teaching Award December 2010

Alejandro Jadad (Professor – UHN- Toronto General Hospital)

- Chair - Canada Research Chair in eHealth Innovation

Joel Katz (Professor – UHN – Toronto General Hospital)

- Canadian Research Chairs Program, CHIR Tier 1 Canada Research Chair in Health Psychology. Department of Psychology, York University. Salary Support Award. 2009-2016.

Claude Laflamme (Assistant Professor – Sunnybrook Health Sciences Centre)

- Silver Jubilee Leadership Award, Society of graduates HPME, University of Toronto, October 2010

Paul McHardy (Lecturer – Sunnybrook Health Sciences Centre)

- Best Clinical Teacher, Department of Anaesthesia, Holland Centre Site , December 2010

Massimiliano Meineri (Assistant Professor – Toronto General Hospital)

- University of Toronto, Faculty of Medicine, Fred Fallis Award for Excellence in on line learning. For the Project: Virtual TEE. Awarded to: Dr. A. Vegas and the team: Michael Corrin, Dr. Massimiliano Meineri, Dr. Angela Jerath and Dr. Gordon Tait.
- MSH-UHN Department of Anesthesia and Pain Management, Fellowship Teaching Award. 2010-2011.

Pamela Morgan (Professor - Women’s College Hospital)

- First Place Prize in Clinical Outcome Category for our Research Presentation, Simulation Use to Establish Outcome Measures for Critical Event Management by Obstetrical Teams. 11th International Meeting on Simulation in Healthcare (IMSH), New Orleans, LA. Jan 2011

Ahtsham Niazi (Assistant Professor - UHN - Toronto Western Hospital)

- Baxter Corporation Canadian Research Award in Anesthesia 2011

Beverley Orser (Professor – Sunnybrook Health Sciences Centre)

- Canada Research Chair in Anesthesia, Tier 2, Anesthetic Drugs: From Molecular Mechanisms to Patient Safety 2009–2014

Naveed Siddiqui (Assistant Professor – UHN – Mount Sinai Hospital)

- Best Oral Presentation Competition (Top 5 of the meeting). Responding to ASRA challenge – Should gowning be the standard of practice for epidural Anesthesia: A Randomized Control Trial. Siddiqui N, Friedman Z, McGeer A, Davies S. Society for Obstetric Anesthesia and Perinatology (SOAP) 43rd Annual meeting April 2011

Peter Slinger (Professor - UHN - Toronto General Hospital)

- Colin Woolf Award for Excellence in Teaching, University of Toronto, Faculty of Medicine.

Adam Snyman (Assistant Professor - UHN - Toronto General Hospital)

- Continuing Medical Education Award, UHN-MSH Department of Anesthesia and Pain Management, 2011.

Andrew Steel (Assistant Professor - UHN - Toronto General Hospital)

- Individual Teaching Award for Undergraduate Teaching, Wightman-Berris Academy, Faculty of Medicine, University of Toronto 2011.

Paul Tumber (Assistant Professor - UHN - Toronto Western Hospital)

- Dr. David Bevan Award for Excellence in Interprofessional Education - MSH-UHN Department of Anesthesia and Pain Management - Teaching Awards

Annette Vegas (Associate Professor - UHN - Toronto General Hospital)

- Undergraduate Medicine Teaching Award, Wightman-Berris Academy, Faculty of Medicine, University of Toronto (October 2010)
- 2010 Fred Fallis Award, Excellence in Online Learning Continuing Education and Professional Development, Faculty of Medicine, University of Toronto, Toronto, Ontario.

Duminda Wijesundera (Assistant Professor - UHN - Toronto General Hospital)

- Clinician Scientist Award – Phase 1, Canadian Institutes of Health Research (CIHR). \$172,500. 2009 – 2012.

FACULTY PROMOTIONS AND RECOGNITION

ACADEMIC PROMOTIONS: JULY 2010

We are very pleased to announce the following academic promotions, effective July 1, 2010:

To the rank of **Full Professor**:

- Dr. Jose Carvalho, Mount Sinai Hospital

To the rank of **Associate Professor**:

- Dr. Pamela Angle, Womens College Hospital
- Dr. Mrinalini Balki, Mount Sinai Hospital
- Dr. Isabella Devito, Mount Sinai Hospital
- Dr. Cameron Guest, Sunnybrook Health Science Centre
- Dr. Anahi Perlas, UHN - Toronto Western Hospital

To the rank of **Assistant Professor**:

- Dr. Duminda Wijesundera, UHN –Toronto General Hospital

FACULTY RECOGNITION 2010-2011 FOR YEARS OF OUTSTANDING SERVICE

35 YEARS OR MORE:

Dr. Michel Ernest (1970); Dr. John McLean (1975); Dr. John De Lacy (1976); Dr. John Edmonds (1976)

30 YEARS OR MORE:

Dr. Desmond Bohn (1980); Dr. Gil Faclier (1980); Dr. Ann Grise (1980); Dr. David McKnight (1980); Dr. Pat McNama (1980); Dr. Keith Rose (1980); Dr. Lawrence Roy (1980); Dr. Frances Chung (1981); Dr. Richard Cooper (1981); Dr. Bruce Dodgson (1981); Dr. Joseph Fisher (1981)

25 YEARS OR MORE:

Dr. Sandra Jelenich (1985); Dr. Elizabeth John (1985); Dr. Jane Kettles (1985); Dr. Mark Bercovici (1986); Dr. Helen Holtby (1986); Dr. Jean Kronberg (1986); Dr. Pamela Morgan (1986)

20 YEARS OR MORE:

Dr. Andrew Baker (1990); Dr. Susan Bertram (1990); Dr. Marsha Cohen (1990); Dr. Jasek Karski (1990); Dr. Irene McGhee (1990); Dr. Alfio Meschino (1990); Dr. Martha O'Driscoll (1990); Dr. Steven Bodley (1991); Dr. Leonard Eisen (1991); Dr. Joel Katz (1991); Dr. Sheelagh Kemp (1991); Dr. Patricia Murphy (1991); Dr. Lesley Sinclair (1991); Dr. Doreen Yee (1991)

15 YEARS OR MORE:

Dr. Vincent Chan (1995); Dr. Ludwik Fedorko (1995); Dr. Brian Kavanagh (1995); Claude Tousignant (1995); Dr. Bok Man Chan (1996); Dr. Ivor Fleming (1996); Dr. Karen McRae (1996); Dr. Philip Peng (1996); Dr. Peter Slinger (1996); Dr. Jeff Wassermann (1996)



ENHANCING CLINICAL PRACTICE

REPORT FROM DR. GERALD O'LEARY | VICE CHAIR CLINICAL PRACTICE

Academic misconduct impacts all of us and cannot be dismissed as “just bad research” because good and indeed “bad” research drives clinical change. While retraction of Joachim Boldt’s HES papers predictably added fuel to the colloid vs. crystalloid debate, this has been ongoing throughout my entire anesthesia career. As a clinician I am still left debating with myself when to use perioperative colloid in a fluid restricted patient (for faster return of bowel function) who will have a postoperative regional analgesic block, while avoiding postoperative hypotension and exacerbating their multiple comorbidities. Some of the basic assumptions that I hold are influenced by these retracted papers and I am uncertain as to how effectively I have remodeled the current information to enable reflective decisions rather than instinctive reactions. In truth, I continue to merely repeat patterned responses that are in part based on flawed information.

I find particularly irksome the retraction of Scott Reuben’s papers on the effectiveness of combining COC-2 inhibitors with pregabalin or gabapentin in mitigating postoperative orthopedic pain. Irksome, because I failed to challenge protocols that combined both pre and postoperative analgesia while wondering at the real added benefit for each patient. Does moving a VAS pain score from 4 to 3 really matter or offset the added costs and risks of multipharmacy? At present we do not know, and it will take years unearthing the answer. As individual clinicians we are limited to see through myopic eyes and titrate our anesthesia plan for that individual despite current gaps in knowledge. Retraction of Reuben’s level 1 evidence not only blinkers our insight into what others in the field are doing but worse it further discourages physicians from changing their clinical practice in response to best practice evidence, even when generated from the gold



LET'S ENSURE THAT THE INFORMATION WE ACCESS TO DECIDE THE BEST TREATMENT OPTION IS AS THOUGHTFULLY INFORMED AS POSSIBLE.

standard randomized controlled trials. While these retractions also call the current postoperative orthopedic analgesia practices into question, I remain a strong advocate of the narcotic sparing effectiveness of perioperative multimodal analgesia. However, it behooves all of us to thoughtfully review our policies that have been formed over the last decade in large part influenced by Reuben’s publications, to ensure that we balance the opportunity for good against the potential for harm that our interventions (or lack of) cause. To build on one of Yogi Berra’s insightful comments “when you come to a fork in the road, take it”; let’s ensure that the information we access to decide the best treatment option is as thoughtfully informed as possible.

Collectively we move forward a little more humbled and embarrassed. On the positive side both frauds were uncovered by the same research system that they abused and individuals tend to shape rather than define practice changes. Human nature does not change and this will not be the last time information is misrepresented. The drive for truth and knowledge in medicine and not just to improve but to be the best at what we do, will ensure that these difficulties are no more than bumps along the way.

CLINICAL STATISTICS: FULLY AFFILIATED HOSPITALS

For the period: July 1, 2010 to June 30, 2011

	TGH	TWH	MOUNT SINAI	WOMEN'S COLLEGE	SUNNYBROOK	ST. MICHAEL'S	HOSPITAL FOR SICK CHILDREN	TOTAL - ALL SITES
GENERAL ANESTHETICS:	7,982	6,052	8,764	3,113	13,157	17,777	9,602	66,447
REGIONAL ANESTHETICS:	1,155 [#]	3,600	6,413	236	2,195	2,460	311	15,215
DELIVERIES:	n/a	n/a	6,731	856*	3,431	2,922	n/a	13,940
EPIDURALS/SPINALS:	n/a*	1,200	5,856	539*	5,740	2,281	276	15,892
CAESARIAN SECTIONS:	n/a	n/a	2,295	308*	1,231	838	n/a	4,672
CAESARIAN SECTION RATE:	n/a	n/a	34.1%	36.0%	35.9%	28.7%	n/a	33.7%
PAIN CLINIC CASES:	n/a	560	1,955	704	4,700	2,098	629	10,646
ACUTE PAIN SERVICE:	3,591	2,424	2,421	n/a	5,400	4,421	886	19,143
ICU BEDS:	53	24	16	2	53	68	38	254

Note: #TGH Regional Anesthetics numbers include Epidurals/spinals. *Women's College obstetrical cases (deliveries) are performed at Sunnybrook Health Sciences Centre.

ANESTHESIA EDUCATION AT U OF T – EVER EVOLVING

REPORT FROM DR. DAVID MCKNIGHT VICE CHAIR EDUCATION

The University of Toronto Department of Anesthesia benefits from and values the excellence and commitment of nearly three hundred dedicated faculty members whose efforts across the full spectrum of education — undergraduate, postgraduate (residency), graduate (Master's & PhD), continuing education, and faculty development — have led to the accomplishments you will read about in these reports. We also highly value the enthusiasm and dedication of our learners and continue to attract the brightest students for all of our programs.

With a change in curriculum in the Faculty of Medicine MD program, the anesthesia rotation moved from the fourth year to the third. This meant that in 2010–11 there was a “double cohort” of students — 449 in total. Dr. Isabel Devito and a doubled number of coordinators in each clinical site managed the large group very successfully with the inclusion of new community hospital sites and the new use of the Hospital for Sick Children as a core site. Both the third and fourth year students rated their experience very highly. Congratulations to all of the Undergraduate Committee for hard work and great success. Even in a year of heavy demand, the Undergraduate Program moved forward with advances in teleconferencing and e-learning opportunities. Apart from the teaching in our own clerkship course, we are pleased that so many members of the department are involved in other courses in the undergraduate MD program, in the applicant selection process, and in mentoring.

The Postgraduate Program, led by Program Director Dr. Mark Levine, is justly proud of the quality of its residents. In 2010–11, several took on prominent leadership roles locally, provincially, and nationally. We continue to attract high quality applicants and to enroll the best of them. Curricular development continues with the portfolio project, organized according to the CanMEDS roles, and identification of centres of excellence for each of the competencies.

The Fellowship Program, based in the clinical sites and coordinated by Dr. Doreen Yee and the Fellowship Committee, increases in size from year to year with both Canadian graduates seeking specific expertise and many international fellows from around the world drawn to the breadth and excellence the University of Toronto offers in clinical practice, anesthesia research, and formal programs in education.



THE COMMITMENT AND DEDICATED HARD WORK OF OUR FACULTY MEMBERS AND EDUCATIONAL LEADERS ALLOWS US TO BE PROUD OF OUR EDUCATION PROGRAMS – PROGRAMS THAT CONTINUALLY WORK TO IMPROVE AND INNOVATE.

The Department offered sixteen continuing education courses in 2010–11 organized under the Continuing Education Committee chaired by Dr. Peter Slinger. There are also city-wide rounds available by webcast and a growing number of online CME accredited courses in a series initiated and guided by Dr. Sharon Davies.

In 2010–11, the Faculty Development Committee, chaired by Dr. Martin van der Vyver, became independent of the Continuing Education Committee. A very successful initiative this year was the New Faculty Experience Program easing the transition from learner to faculty member. The annual Faculty Development Day continues to go from strength to strength in both quality and numbers in attendance.

We are justly proud of our education programs, programs that continually work to improve and innovate. This is only possible with the commitment and dedicated hard work of our faculty members and educational leaders. I thank them and congratulate them on their achievement.

OUR UNDERGRADUATE EDUCATION PROGRAMS

REPORT FROM DR. ISABELLA DEVITO DIRECTOR UNDERGRADUATE EDUCATION PROGRAM

The 2010-11 academic year was one of the most memorable for the Undergraduate Education Program. It was a year of transition and transformation.

The Faculty of Medicine at the University of Toronto began their revised curriculum during this academic year. With curriculum change our Anesthesia Clerkship course transitioned from a Year 4 course to a Year 3 course. Our rotation increased from 8-9 days to a full two weeks. While this was a welcome change, it created a tremendous challenge for our Undergraduate program - the accommodation of a double cohort of students.

History was made with the largest cohort of students (449) rotating through the Department of Anesthesia in its 60 years of existence. This number does not include our large contingent of elective students with which well over 500 students rotated through our hospitals. To accommodate the large number of learners we incorporated four new community hospitals and The Hospital for Sick Children as core sites for our fourth year students. Our new community partners include The Scarborough Hospital (General and Birchmount sites), Trillium Health Centre and St. Joseph's Health Centre. Dr. Larry Panos, Dr. Alan Tallmeister, Dr. Hossam El Beheiry and Dr. Suzanne Lilker joined our program as site coordinators at their respective hospitals. The introduction of remote community partners created a new challenge. How were we going to provide the same curriculum in seminars to students in remote sites? To achieve this we, along with the help of Telemedicine organized videoconferencing at all sites. To deal with the increased number of students at our main sites, we created both year 3 and year 4 site coordinators with sole responsibilities for their assigned year. With the new medical school curriculum, two integrated OSCE's have been developed. Anesthesia content has been incorporated into this assessment. Dr. Ryan Mai has been appointed our iOSCE representative. Anesthesia knowledge is not only assessed during our clerkship rotation, but also in the iOSCE and Anesthesia faculty are involved in these assessments.

Our student evaluations reflect that we not only survived this challenge, but excelled: our teaching effectiveness scores (TES) surpassed the Faculty of Medicine clerkship mean of



OUR SUCCESS THIS ACADEMIC YEAR WAS A RESULT OF A TRULY ALTRUISTIC GROUP OF UNDERGRADUATE EDUCATORS AND FACULTY WHO CONTRIBUTED A GREAT DEAL OF THEIR TIME AND DEDICATION TO OUR PROGRAM.

4.45, Year 4 TES were 4.52 and Year 3 were 4.47. In answer to the question of whether our rotation was a good educational experience the Year 4 mean was higher in 2010-11 at 4.27/5, than in 2009-10 at 4.18/5. The Year 3 mean was 4.40/5. In answer to whether they enjoyed their rotation, the Year 4 mean again was higher in 2010-11 at 4.14/5, than in 2009-10 at 4.10/5. The Year 3 mean was 4.49/5. This is a reflection of the tremendous effort of our entire faculty; without their amazing level of commitment to teaching we would not have achieved such a high standard.

With the transition of Clerkship from fourth year to third year, the ANS310Y course was repositioned; our clerkship rotation was previously from September to March, but now occurs throughout the year. We were placed in an eight week block with Ophthalmology, Otolaryngology and Emergency Medicine. To help organize our electives, the anesthesia clerkship rotation now occurs as four weeks on (two groups for two weeks each) and four weeks off, with electives placed in the non-clerk time.

A simulation e-module was developed by Dr. Anita Sarmah, Ms. Agnes Ryzynski, Ms. Susan DeSousa and Mr. Gary Cronin. It will be trialed during the next academic year. Students will be randomized to either our traditional teaching program or our new simulation e-module. We plan to incorporate the e-module as part of our routine teaching program in the future. Dr. Clyde Matava has been appointed our E-learning Coordinator. One of his roles will be to liaise with our seminar leaders and transform our present seminars into e-learning modules. With students placed in remote sites, this will allow us to deliver the same curriculum to all students.

Our faculty continue their commitment to all years of medical education, being involved in the selection of the new medical school class with file reviews and interviewing; many faculty also serve as student mentors. We also continue to have a strong presence in Pre-clerkship with ASCM I and II (Art and Science of Clinical Medicine), DOCH II (Determinants of Community Health), BRB (Brain & Behaviour) and MMMD (Mechanism, Manifestations and Management of Disease), and in the clerkship with the Portfolio program.

Our Anesthesia Interest Group (AIG) continues to be very popular under the leadership of Dr. Darryl Irwin and our annual Student Information Night had one of its largest attendances to date. Under the leadership of Dr. James Robertson our electives have remained very popular, and we continue to host local, national and international electives. With the new curriculum all our University of Toronto electives

will occur from September to December of fourth year. In preparation for Year 4 of our new medical student curriculum, Dr. Mital Joshi has been appointed our representative for Transition to Residency (TTR) and our team has prepared many selectives for inclusion in this program. While this academic year has been quite challenging, it has also been extremely rewarding. We now have students rotating through the Anesthesia Undergraduate Program prior to the CaRMS application process. As a result, the interest in Anesthesia as a career from our students has become more popular. Hopefully this trend will continue.

The success of this academic year was a result of a truly altruistic group of Undergraduate Educators and Faculty who contributed a great deal of their time to our program. With their dedication to the double cohort year, we have excelled in our transition and transformation of the Undergraduate Education Program.



OUR POSTGRADUATE EDUCATION PROGRAMS

REPORT FROM DR. MARK LEVINE DIRECTOR POSTGRADUATE EDUCATION PROGRAM

The 2010/2011 academic year was a busy time that was highlighted, in part, by the outstanding achievements in the areas of leadership, at a local and national level, and education of a number of our residents. Three of our residents were very active in the Canadian Anesthesiologists Society: Dr. Cindy Wang as a representative from our department, Dr. Fahad Alam as Vice Chair of the Resident Section and Dr. Asim Alam as the CAS resident representative at the American Society of Anesthesiologists' annual meeting. Furthermore, Dr. Warren Luksun was appointed to the Board of Directors of PAIRO and also represented the Department of Anesthesia on the Board of Examiners at the Postgraduate Education office. Dr. Saroo Sharma was the inaugural recipient of the prestigious Currie Fellowship at the Wilson Centre for Medical Education.

We have continued to attract high quality applicants to our program. The number of Canadian and International Medical Graduate applicants was, once again, higher than in previous years and all of our new residents were ranked in the top third of applicants. Two of the students matched to the Clinician Investigator Stream – confirming our commitment to identifying and producing the future leaders of our profession. Dr. Zeev Friedman was appointed Resident Research Coordinator and, in this role, will assist in mentoring residents who wish to participate in research projects within the department.

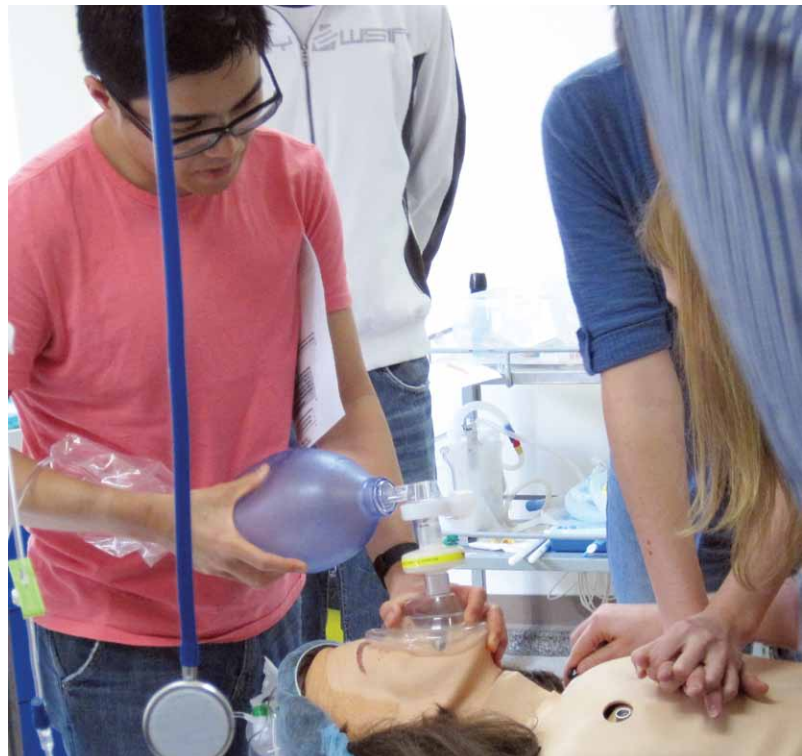
An important role of the program is to assist residents in career planning beyond residency. The first annual Fellowship/ Career evening was organized to meet this need. Fellowship directors from all major teaching hospitals were on hand to provide information regarding fellowship opportunities in the city. In addition, a number of community anesthesia leaders outlined the nature of practice in community hospitals and the process involved in securing positions at those facilities. At a separate event, a representative from Health Force Ontario met with senior residents to provide career guidance.



THIS YEAR OUR RESIDENTS HAVE MADE OUTSTANDING ACHIEVEMENTS IN THE AREAS OF LEADERSHIP AND EDUCATION, AT BOTH THE LOCAL AND NATIONAL LEVEL.

The curriculum continues to undergo further review and refinement. We have recently introduced the use of portfolios to facilitate teaching and evaluation of some of the CanMEDS competencies outside of the Medical Expert role. Each of the teaching sites has been identified as a “Hub of Excellence” for one or more of the roles and will provide the support essential for residents to acquire the necessary competencies and complete portfolio entries relevant to these competencies.

In closing, we would like to congratulate all of our residents who were successful at the Royal College Examinations in June, 2011 – well done!



RESIDENTS 2010-2011

PGY5

Abdulrahman, Abdi	Ararat, Alpay	Borden, Andrew
Chuang, Monica	D'Costa, Abelina	Fried, Ben Ari
Hayward, Diana	Ip, Terence	Kahn, Michael
Khalil, Raghad	Ketabi, Salma	Kim, Han
Kirkham, Kyle	Mehta, Yatin	Meyer, Rachel
Seib, Rachael	Sharma, Saroo	Shastri, Uma
Trang, Amy	Weekes, Darlene	Yaseen, Mohammad

PGY4

Alakkad, Husni	Alam, Asim	Aleksandrova, Iryna
Cong, Huong	Dave, Shefali	Dupuis, Genevieve
Eskandar, Sherif	Fan-Lun, Amy	Leung, Rico
Luksun, Warren	Lyn, Sheldon	Marseu, Katherine
Meyler, Paula	Predescu, Oana	Randall, Ian
Rao, Anita	Simitciu, Merita	Singh, Mandeep
Soneji, Neilesh	Treigys, Jurgita	Wong, Catherine

PGY3

Alam, Fahad (CIP)	Avramescu, Sinziana	Desai, Minal
Evangelista, Raymond	Fader, Michael	Farsi, Sara
Gamez, Ryan	Ibrahim, Hesham	Ladha, Alim
Lam, Mandy	Lee, Sang	Liu, Peter
Mashari, Azad	Mocon, Aaron	Mukhida, Karim
Perkes, Christopher	Pillo, Lisa	Puopolo, Laura
Singer, Oskar	Sivananthan, Praveena	Skelton, Teresa

PGY2

Chau, Edmond	Flamer, David	Henry, Paul
Hurlburt, Lindsay	Kerelska, Tina	Khemani, Ekta
Koval, Joseph	Krishna, Arjun	Le, Nam
McVey, Mark (CIP)	Mottiar, Miriam	Orlov, David
Patel, Sanjay	Ramji, Karim	Surti, Meera
Tylee, Michael	Unger, Zoe	Waldman, Kyle
Yeung, Alex		

PGY1

Abrishami, Amir]	Al-Mousawy, Zolfakar	Au, Samuel Fook Hang
Bechamp, Robert	Bourgeois, Andre	Ho, Clara
Ho, Melissa Wei-Yee	Jhaji, Prabhjote Singh	Lorello, Gianni (CIP)
Mu, Alex	Runkle, Bryn Tyrson	Song, Yuning
Srikandarajah, Sandjho	Wang, Cindy Ruiqing (CIP)	Wang, Jane Jing
Wong, Simon Wai Lun	Woloszyk, Michael	Zhou, Taylor

*(CIP) – Clinical Investigator Program

OUR FELLOWSHIP PROGRAMS

REPORT FROM DR. DOREEN YEE | DIRECTOR FELLOWSHIP PROGRAMS

The fellowship program continues to be a popular choice for post residency trainees from around the world. In the 2010 – 2011 academic year, over 80 fellows from almost twenty countries enrolled in the program. This year, more graduates from Canadian residency programs were in this group than in the recent past, reflecting the competitive nature of the current Canadian job market. Many recognize that further training in subspecialty areas offer a distinct advantage in obtaining future employment. In keeping with the current global economy, consultant positions are also somewhat scarce abroad, resulting in many of our fellows staying for more than a year. Cumulatively these factors, along with the university department's excellent clinical and academic reputation, contribute to our large, international cohort of highly trained fellows.

The newly revised selection criteria for entry to the program have resulted in a higher caliber of fellows in the system, and an overall improvement of the program. Cardiac anesthesia fellowships continue to be a popular choice and there is an excellent success rate of fellows who sit the Transesophageal Echocardiography Exam (TEE). The thoracic and airway fellowships are also well indorsed, and are frequently fully subscribed several years in advance. Regional anesthesia training is also in huge demand, with all 8 positions across the university filled every year, while the world-renowned Hospital for Sick Children attracts 10 pediatric anesthesia fellows annually.

Most of the fellowships encompass 20% academic time. Fellows produced the majority of research posters and presentations at the 32nd Annual Shields Day in May 2011.



WE HAVE ATTRACTED A LARGE INTERNATIONAL COHORT OF HIGHLY TRAINED FELLOWS PRINCIPALLY DUE TO THE UNIVERSITY DEPARTMENT'S EXCELLENT CLINICAL AND ACADEMIC REPUTATION.

Frequently, this day serves as a “test run” for the Canadian Anesthesiologists’ Society meeting (and other international meetings also) that takes place the following month. A number of these presentations will go on to become journal articles with the fellow as first author. Other fellows have used their academic time to enroll in different courses that are offered at the university. The “Stepping Stones” program for teacher training through the Centre for Faculty Development has been popular, while the more ambitious enroll in Masters Programs with specialties ranging from Clinical Epidemiology, Health Sciences, and Education.

The series of Professors’ Rounds for fellows continues into its second successful year.

Attendance is gradually increasing, and has even attracted some of our resident trainees and the occasional staff!

PROFESSORS’ ROUNDS FOR FELLOWS 2010-2011

DATE	TOPIC	SPEAKER
October 26	Perioperative ACE Inhibitors: To Give or Not to Give?	Dr. Scott Beattie(UHN – TGH)
December 7	Obstructive Sleep Apnea: Are we sleepwalking towards disaster?	Dr. Frances Chung (UHN – TWH)
January 25	Ultrasound for Regional Anesthesia: Past, Present and Future	Dr. Colin McCartney (SBH)
February 22	MAC and Memory: Too Much or Too Little?	Dr. Beverley Orser(SBH)
March 22	Communication at the Interface: Transferring Patient Care – What is missed?	Dr. Peter Cox (HSC)
DATE	TOPIC	SPEAKER
April 19	“Is the in vitro lab relevant to clinical medicine?” - Experiences of a reluctant clinician scientist”	Dr. Andrew Baker (SMH)
May 31	Self Regulation – How to Stay Out of Trouble with the CPSO!	Dr. Robert Byrick (SMH)

ANESTHESIA FELLOWS 2010-2011

THE HOSPITAL FOR SICK CHILDREN

Vraets, Adrienne	Canada	Koziol, James	Australia
Grasso, Francesco	Italy	Rosen, Derek	Australia
Chew, Sue	Australia	Everett, Tobias	United Kingdom
Mazen, Faden	Saudi Arabia	Henze Oxenius-Georg	Switzerland
Henzi, Iris	Switzerland	Navaratnarajah, Ramune	United Kingdom
Subramanyam, Rajeev	India	Fantillo, Vanessa	Canada

MOUNT SINAI HOSPITAL

Cordovani, Daniel	Brazil	Desai, Devdatta	India
Fanning, Niall	Ireland	Hards, Andrea	United Kingdom
Mahmoud, Shireen	Egypt	Martin, Rachel	Canada
Ohashi, Yayoi	Japan	Sahota, Paul	Canada
Short, Jonathan	United Kingdom	Vaishnav, Vandana	India
Masood, Amna	Pakistan/Canada	Anandakrishnan, Suresh	United Kingdom
Baghirzada, Leyla	Canada	Boulis, Sherif	Egypt

ST. MICHAEL'S HOSPITAL

Mira Kapala	Canada	Bhanu Nalla	United Kingdom
Ashley O'Brien	Canada	Susana Garcia	Philippines
Yan Gronsky	Israel	Fabio Papa	Brazil
Sherif Rady	Egypt	Raymond Hu	Australia
Kevin Latchford	Canada	Sylvie Allaert	Belgium
Han Kim	Canada	Martin Kim	Australia
Denise McCarthy	Ireland	Gary Lau	United Kingdom
Rajiv Gupta	Australia	Tim Egan	United Kingdom
Sharon Pickworth	United Kingdom	Arvind Raju	New Zealand
Antonio Bellini	Italy	Murray Blackstock	Australia
Marco Garavaglia	Italy	Sylvain Boet	France
Nicole Riem	Switzerland	Mahnaz Afsari	Australia

SUNNYBROOK HEALTH SCIENCES CENTRE

Carlos Restrepo	Columbia	Hareesh Mulchandani	United Kingdom
Jeff Hoskins	New Zealand	Mahnaz Afsari	New Zealand
Krissie Khanduja	United Kingdom	Darren Phua	Singapore
Cedric Luyet	Switzerland	Steve Choi	Canada
Maria Chuquer	Brazil	Patrick Conroy	Ireland
Paul Ross	Australia	Anthony Ryan	Australia
Andrew Lansdown	Australia	Sanjiv Patel	United Kingdom
Corina Constantinescu	Romania		

UHN-TORONTO GENERAL HOSPITAL

Ishtiaq Ahmad	Ireland	Christiana Burt	United Kingdom
Michael Calarco	United States	Tony Chandy	India
Vanessa Chin	Jamaica	Justen Dralle	South Africa
Louise Ellard	Australia	Christoph Ellenberger	Switzerland
Karen Foley	Ireland	Anthony George	United Kingdom
Sameer Hasanni	Saudi Arabia	Patrick Hassett	Ireland
Raj Isaac	United Kingdom	Angela Jerath	United Kingdom
Sofia Kahn	United Kingdom	Bruce Kilpatrick	South Africa
Desiree Lai	Switzerland	Rafeek Mikhael	Canada
Nas Shazli Nasruddin	Malaysia	Thomas Pickworth	United Kingdom
Debashis Roy	Canada	Twain Russell	Australia
Michael Scully	Ireland	Vivek Sharma	United Kingdom
Christine Stephen	Jamaica	Jason Toppin	Jamaica
Roberta Vieira	Brazil	Piotr Wolski	Poland

UHN-TORONTO WESTERN HOSPITAL

Saleh Khunein	Saudi Arabia	Saravanan Anki Chetty	India
Jyh Shen Tan	Singapore	Mohammad Ghafari	Iran
Jayati Sinha Ghosh	India	Eiman Rahimi	Iran
Rajeev Subramanyam	India	Ligia Cordovani	Brazil
Javier Cubillos	Columbia	Jason Chui	Hong Kong
Shane McGeary	Ireland	Yiqing Yin	China
Faraj Abdallah	Lebanon	Lianfeng Zhang	China

WOMEN'S COLLEGE HOSPITAL

Caitriona Murphy	Ireland	Saravanan Ankichetty	India
Etedal Aamri	Saudi Arabia		

OUR CONTINUING EDUCATION PROGRAMS

REPORT FROM DR. PETER SLINGER DIRECTOR CME/CPD PROGRAMS



THE DEPARTMENT'S CONTINUING EDUCATION INITIATIVES INTEGRATE COURSE DEVELOPMENT, SPONSORSHIP AND WEB BASED LEARNING TOOLS.

The Continuing Education Committee for the Department of Anesthesia is comprised of representatives from each of the teaching hospitals as well as directors of CME courses and community hospital representatives. The committee meets 4 times per year to discuss, plan and organize a number of continuing education initiatives. The committee endeavors to ensure that most CE activities are accredited learning activities and that they qualify for University of Toronto sponsorship.

COURSE DEVELOPMENT

Each year the committee supervises the Anesthesia Practice Meeting. Under the Co-direction of Drs. Lashmi Venkatraghavan and Clarita Margarido in 2010. This three-day course consists of a combination of lectures, workshops and small group sessions for both Fellowship and GP Anesthetists. Over the past four years, the meeting has been extremely successful.

COURSE SPONSORSHIP

The CME Committee aids in the development and accreditation of ongoing CME courses produced by the U of T Department of Anesthesia.

Anesthesia CME courses for July 2010-June 2011 include:

COURSE	DATE(S)	COURSE ORGANISER
Obstetric Anesthesia	September 2010	Jose Carvalho
Conquering the Hurt: The Trajectory from Acute to Chronic Pain Symposium	November 2010	Hospital for Sick Children
Introductory Workshop for Ultrasound Guided Nerve Blocks	November 2010	Vincent Chan
Critical Care Canada Forum	November 2010	Brian Kavanagh
Perioperative Transesophageal Echocardiography Symposium	November 2010	Annette Vegas
Anesthesia Faculty Development Day,	November 2010	Martin van der Vyver
Obstetric Anesthesia Day, Women's College Hospital	November 2010	Clarita Margarido
Mendelsohn Lecture Mt. Sinai Hospital	November 2010	Lashmi Venkatraghavan
Toronto Anesthesia Practice	November 2010	Lashmi Venkatraghavan
Advanced Workshop for Ultrasound Guided Nerve Blocks	December 2010	Vincent Chan, Christine Drane
Introductory Workshop for Ultrasound Guided Nerve Blocks	February 2011	Vincent Chan, Christine Drane
COURSE	DATE(S)	COURSE ORGANISER
Tremblant Anesthesia Meeting	February 2011	Jordan Tarshis
Advanced Workshop for Ultrasound Guided Nerve Blocks	March 2011	Vincent Chan, Christine Drane
Toronto Anesthesia Symposium "Recent Advances in Airway Management"	April 2011	Rusty Stewart
32nd Annual Shields Day	May 2011	Zeev Friedman
Controversies in Perioperative Medicine.	May 2011	Mark Friedlander

CITY WIDE ROUNDS

City-Wide Webcast and Telecast Pain/Regional Anesthesia Rounds are organized by Joe Kay (SHSC) four times per year.

WEB BASED LEARNING

CME ONLINE ANESTHESIA ROUNDS

This program has been enlarged to 15 educational modules. This program has been developed by Sharon Davies (MSH). These modules have been accredited by the University of Toronto CEPD Dept. for Section 3 RCPSC credits. In 2011, 987 modules were completed by 451 participants. These modules can be accessed through the U of T Anesthesia Dept. website www.anesthesia.utoronto.ca under: Education/ Continuing Medical Education.

WEB-BASED BRONCHOSCOPY SIMULATOR.

The Thoracic Anesthesia group of the Toronto General Hospital has created an online bronchoscopy simulator to improve Anesthesiologist's skills in providing lung isolation for thoracic anesthesia by learning bronchial anatomy. The Simulator and Quiz can be accessed on the website www.thoracicanesthesia.com. This simulator has been accredited by the University of Toronto CEPD Dept. for CME credits.



ONLINE ACCREDITED CONTINUING EDUCATION

REPORT FROM DR. SHARON DAVIES

This past year has been a very exciting one for the University of Toronto's Online Continuing Education Web Site. Under the new 2011 RCPSC MainCert format, the site has now been approved for Section 3 credits which awards triple credits for the participant's time commitment. This level of accreditation attests to the emphasis and value that the Royal College has placed on self directed learning and self-assessment programs.

The web site was originally developed during the first cycle of the RCPSC MainCert program. At the time, it was felt that there would be a need for accredited online CME for practicing anesthesiologists, particularly community based physicians and long distance learners who have limited access to educational events.

At present, the site contains 15 educational modules which can be viewed on the Department of Anesthesia's web site under CME Credit Courses (www.anesthesia.utoronto.ca). All modules are interactive and the majority are case based. Questions from the participants and the author's answers are posted on a discussion board, both of which are available for all participants to review. Participants are also able to evaluate their learning through an online examination. In this regard, the technical functionality of the site is in the process of being upgraded to allow the learners to receive immediate feedback regarding their examination answers and, if incorrect, an



THE LEVEL OF ACCREDITATION EMPHASISES THE VALUE THAT THE ROYAL COLLEGE PLACES ON SELF-DIRECTED LEARNING PROGRAMS.

explanation is provided. Stay tuned for the full implementation of this important new format which has gone "live" with module 15 and will soon be incorporated into all of the previous modules. In addition, online feedback regarding the modules is encouraged through a short evaluation survey.

An extensive data base is maintained regarding the number of participants that complete each module, their country of origin, type of practice and examination scores, as well as their evaluations of the modules, including whether or not the knowledge they have gained will impact their patient management. To date, the evaluations have been excellent. Over the past few years the number of participants has been steadily increasing, with just under 1000 modules completed in 2011. In light of the recent increase in the quantity of MainCert credits allotted, these numbers are likely to continue to rise. Participants come from all across Canada, the United States, United Kingdom, Middle East, India, Europe and Africa.

ONLINE MODULES

AUTHOR(S)	TITLE
Nistor I, Rucker J, Davies S.	Lessons in Acute Pain Management - A Case Based Approach
Davies S.	When Your Epidural Doesn't Work - Is It Always Our Fault?
Slinger P, Davies S.	Management of One-Lung Ventilation
Davies S.	Aseptic Technique and Septic Complications of Regional Anesthesia. How Can We Improve?
Doyle J.	Obstructive Sleep Apnea and the Anesthesia Patient.
Doyle J.	Recent Developments in Supraglottic Airway Devices
Beattie WS, Davies S.	Peri-Operative Cardiac Risk Reduction.
Davies S.	Management of Post Partum Hemorrhage.
Davies S.	Accidental Subdural Injections.
Halpern S, van der Vyver M.	Patient Controlled Epidural Analgesia for Labour.
Goldszmidt E.	CSE and Mobile Analgesia for Labour.
Doyle J.	Blood Transfusions and the Jehovah's Witnesses Patient.
Callhoun T, Davies S.	Confidential Enquiry into Maternal Deaths
Davies S.	Amniotic Fluid Embolus.
Doyle J.	Laryngeal Mask Anesthesia.

FACULTY DEVELOPMENT

REPORT FROM DR. MARTIN VAN DER VYVER | DIRECTOR FACULTY DEVELOPMENT PROGRAMS

In the 2010-2011 academic year, 'Faculty Development Programs' started to function with the following mandate: 'to facilitate the development of educators in the Department of Anesthesia at the University of Toronto'. It functioned in this period as a subcommittee of the Continuing Education committee.

The Faculty Development subcommittee organized the annual Faculty Development Day (FDD) on November 11, 2010. Building upon the success of 2009, the format of the event remained unchanged. The event featured introductory remarks by Dean Catharine Whiteside and consisted of a keynote lecture by Dr. Vicki LeBlanc from the Wilson Centre for Education at the University of Toronto. Dr. LeBlanc, a cognitive psychologist and educational researcher, gave a well received and informative presentation on how stress can affect performance. Following a poster viewing session, our faculty members' participated in one of six simultaneous sessions on the following topics:

- **Effective Strategies for Integration and Communication of IMG's** (Dr. Alan Monavvari and Dr. Aliya Salman)
- **The Learner in Difficulty** (Dr. Salvatore Spadafora and Susan Glover-Takahashi)
- **Time management** (Dr. Melinda Solomon and Ms. Sheena Bhimji-Hewitt)
- **Effective mentoring skills** (Dr. Karen Leslie)
- **How to Make Teaching Interactive** (Dr. Jane Tipping)
- **Panel discussion: "Teaching Tips and Tricks from Educational Leaders"** (Panel participants: Isabel Devito, Irene McGhee and Jeff Wassermann)

FDD 2010 was attended by more than 100 faculty and was once again highly rated by attendees. 71% rated it as 'very good' and 17% as 'excellent'. FDD has now become an established event on the annual UT Anesthesia calendar and enjoys the same status of the annual Shield's Day.

NEW FACULTY EXPERIENCE PROGRAM

The first cycle of a new educational faculty development initiative, the New Faculty Experience Program was held from September 2010 to May 2011.

This longitudinal program consisted of nine monthly sessions led by various experts from within and outside of the Department of Anesthesia.



OUR GOAL IS TO FACILITATE THE DEVELOPMENT OF EDUCATORS IN THE DEPARTMENT OF ANESTHESIA AT THE UNIVERSITY OF TORONTO.

New faculty members in an academic health science centre are given many roles and responsibilities for which they are often ill-equipped. The overall goal of this program is to facilitate the development of recently appointed faculty in their new academic environment. In addition to a basic introduction to teaching skills, the program also aims to orient the group to the culture and expectations within the Department of Anesthesia and the Faculty of Medicine at the University of Toronto.

The content of the program included:

- **The Basics of Teaching and Learning in the Medicine** (Brenda Mori and Debbie Kwan)
- **Teaching in the OR** (Martin van der Vyver)
- **Assessment in Anesthesia/ Effective feedback and debriefing** (Martin van der Vyver, Marianne Graham and Irene McGhee)
- **How to teach and evaluate professionalism** (David McKnight)
- **The learner in difficulty** (Salvatore Spadafora)
- **Research** (David Mazer, Duminda Wijeyesundera and Janet Rossant)
- **Business Essentials: Structures, Liability and Tax** (Cameron Guest and Jim Morrissey)
- **Academic Three-Year Reviews and Promotions** (Pam Morgan and David McKnight)
- **Academic career planning** (Susan Lieff)

RESEARCH PROGRAMS

REPORT FROM DR. DAVID MAZER | VICE CHAIR RESEARCH

The 2010-2011 academic year was another banner year for research in the Department of Anesthesia at the University of Toronto. Thanks to our outstanding faculty and trainee investigators our department is well on the way to achieving its goal for research as articulated in the 2009-14 Strategic Plan: **“The department will pursue a multi-modal strategic approach to target our commitment to conduct world-class research; capitalize upon translational potential; and, achieve global impact.”** The number of our publications and citations continues to increase reflecting both the high productivity and quality of our research (see table below). We remain one of the top Anesthesia research institutions in the world and our department ranks first of all Canadian Universities and of all Association of American Universities public institutions.

Publications from members of our department have appeared in a very wide range of high impact journals including New England Journal of Medicine, JAMA, Lancet, British Medical Journal, Anesthesiology, Stroke, PNAS, Circulation, Archives of Internal Medicine, Critical Care Medicine, and CMAJ. These publications highlight our commitment to research and knowledge translation related to anesthesia, pain, perioperative medicine, and critical care. In addition, the high number of invited lectures given by our faculty is further evidence of the dedication of our department to the generation and dissemination of new knowledge.

In the past year we have continued implementation of initiatives to support our strategic plan. The internal peer-review process for grant applications submitted by our faculty has been a valuable enterprise to enhance the quality and success rate of grants submitted by our department. Investigators planning to submit a grant can either undergo our departmental peer-review or a similar process within their own institution.

The Merit Awards Program has been one of the important and innovative measures recently undertaken by our department. The overall aim of the program is to allocate University funding to anesthesia faculty to support academic time, according to merit and accountability, and with a transparent, peer-review process. All applications for this competition undergo both external and internal peer-review. The second Merit Awards Competition was held last year following the inaugural competition in 2009 and a separate interim merit award competition for new faculty in 2010. This competition produced a very large number of excellent applications. Congratulations to the recipients of this year’s research awards whose names and projects are listed in this report. The Merit Awards



THE UT DEPARTMENT OF ANESTHESIA CONTINUES TO BE ONE OF THE TOP ANESTHESIA RESEARCH INSTITUTIONS IN THE WORLD AND IS FIRST OF ALL CANADIAN UNIVERSITIES AND OF ALL ASSOCIATION OF AMERICAN UNIVERSITIES PUBLIC INSTITUTIONS.

Program is seen as a model for allocating university and hospital based funds for other departments and at least one of the hospital departments of anesthesia has adopted this model for awarding some of its internal research funds.

Last year our department also initiated a one-time competition for a new major award to support multicenter Clinical Trials within the University of Toronto. This competitive award will provide funding for a major inter-hospital clinical trial led by the Department of Anesthesia within the University of Toronto. Several excellent proposals were received – congratulations to the recipient, Dr. Keyvan Karkouti, for the collaborative project entitled “Advance Targeted Transfusion in Anemic Cardiac Surgical Patients for Kidney Protection (ATTACK): A Multicentre Randomized Trial!”

The Department of Anesthesia continues to encourage trainee involvement in Research. We are the only Department of Anesthesia in Canada to offer residency slots for the Clinician Investigator Program, whereby a candidate can apply for a dedicated residency slot to undertake a training program to become a Clinician Scientist. Our Fellowship Coordinator - Dr. Doreen Yee, and Resident Research Mentor - Dr. Zeev Friedman are also helping to facilitate Anesthesia trainee research experience. On May 6, 2011, Dr. Friedman again led the organization of another outstanding Shields Research Day (see report below).

The Department of Anesthesia at the University of Toronto continues to be an international leader in terms of research. As outlined in this report, the past has been very productive, and with our excellent faculty, infrastructure, leadership, and initiatives, we are hopeful the future will be even more successful.

ANESTHESIOLOGY: 2005-2009 COMPARED TO 2006 - 2010

UNIVERSITY	# PUBLICATIONS		UNIVERSITY	# CITATIONS	
	2005 to 2009	2006 to 2010		2005 to 2009	2006 to 2010
Harvard	485	485	Harvard	3,572	3,808
TORONTO	402	429	TORONTO	2,829	2,910
Calif - San Francisco	215	219	U Washington	2,011	1,884
Duke	220	197	Calif - San Francisco	1,723	1,793
MCGILL	220	183	Duke	1,662	1,505
Stanford	166	174	Johns Hopkins	1,574	1,397
U Washington	165	172	Florida	1,091	1,188
U Penn	147	163	Stanford	915	1,163
Johns Hopkins	153	154	MCGILL	1,543	1,141
MONTREAL	143	137	U Penn	1,102	1,109
Michigan	110	124	MONTREAL	862	994
Pittsburgh	131	124	Columbia	812	922
Iowa	117	121	Pittsburgh	707	892
Florida	119	114	Calif - San Diego	784	848
Calif - San Diego	102	112	Iowa	842	832
Columbia	125	112	Yale	961	743
Yale	107	102	Michigan	835	681
BRITISH COLUMBIA	160	100	Rochester	611	679
Northwestern	85	95	BRITISH COLUMBIA	1,232	665
ALBERTA	84	75	Wisc - Madison	389	634
Emory	68	73	Emory	413	607
Cornell	51	65	Northwestern	756	552
Virginia	65	64	Washington U	484	493
Washington U	72	64	Calif - Los Angeles	570	462
DALHOUSIE	110	62	Vanderbilt	352	438
Calif - Davis	58	60	Virginia	396	410
Chicago	59	58	Cornell	234	383
Vanderbilt	46	57	UNC - Chapel Hill	411	378
WESTERN ONT	65	55	DALHOUSIE	740	349
OTTAWA	122	53	ALBERTA	664	348
Rochester	48	52	WESTERN ONT	603	343
Calif - Los Angeles	63	50	Calif - Davis	313	306
CALGARY	50	48	OTTAWA	728	303
Wisc - Madison	42	47	Chicago	319	280
Calif - Irvine	32	41	Minnesota	235	243
Minnesota	38	37	SASKATCHEWAN		229
New York U	39	37	QUEEN'S	255	221
Penn State	34	37	CALGARY	257	196
Case Western	42	36	Arizona	228	188
UNC - Chapel Hill	34	35	MCMASTER	852	182
QUEEN'S	37	34	SUNY - Stony Brook	153	175
MCMASTER	107	28	LAVAL	217	168
Missouri Columbia	38	28	New York U	169	152
Arizona	23	24	Southern California	118	151
MANITOBA		24	Kansas	103	145
SUNY - Buffalo	23	24	Penn State	99	143
LAVAL	30	23	Case Western	129	141
Ohio State	16	21	Missouri Columbia	168	140
Kansas	16	18	Calif - Irvine	177	137
Southern California	19	17	Purdue	71	98
SUNY - Stony Brook	20	16	SUNY - Buffalo	88	98
Brown	12	15	MANITOBA		92
SASKATCHEWAN		14	Brown	64	68
Rutgers State	23	9	Tulane	81	59

Data source: University Science Indicators 2010 Deluxe Edition, Thomson Reuters.



**OUR GOAL IS TO CONTINUE TO
EXPAND OUR KNOWLEDGE,
TO ENHANCE OUR ABILITY TO
IMPART OUR KNOWLEDGE TO OUR
LEARNERS AND TO ENSURE THAT
WE AUGMENT THE DELIVERY OF
CARE TO OUR PATIENTS**

ANNUAL SHIELDS RESEARCH DAY 2011

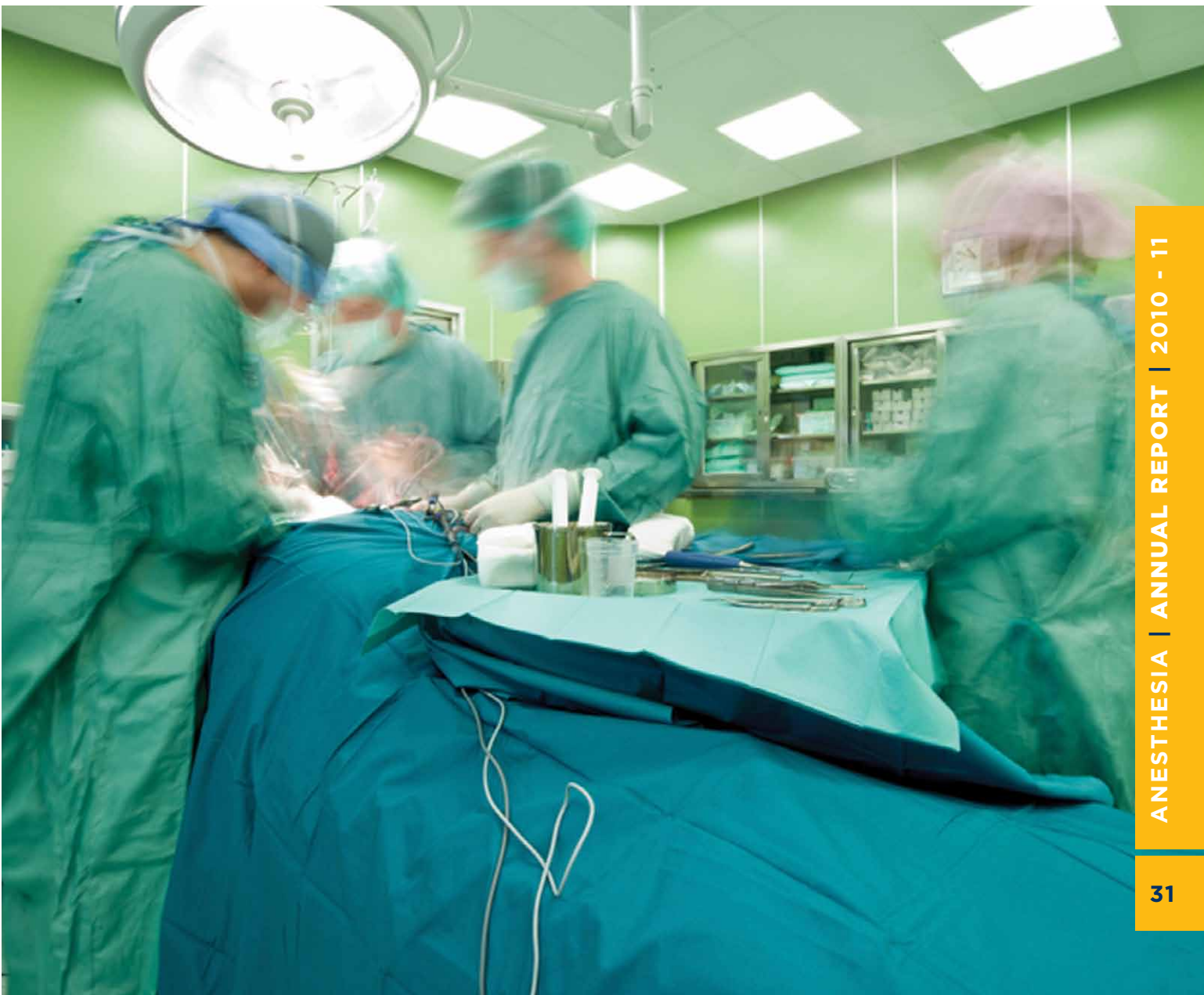
DR. ZEEV FRIEDMAN, CHAIR, ANNUAL SHIELDS RESEARCH DAY 2011

The 32nd Annual Shields Research Day was celebrated again this year, when the Toronto Anesthesia Department met to witness the cutting edge research performed by our colleagues and trainees. This popular event needs very little effort to make it successful. The quality of the research presented by the department's trainees and the high quality of the annual Shields lecture make this day a fascinating event. All the Chair has to do is ring the bell and get out of the way.

The Shields Day was preceded by the traditional Research in Progress Seminar with Dr Fleischer, the Shields Day speaker, as a special discussant and presentations by Drs Karkouti and Wijeyesundera.

A total of 45 abstracts were presented at Shields Day. Twenty one were presented orally and 24 were presented as posters. Ten awards were handed out at the end of the event this year including the new "Award for Clinical Excellence" and "UT Anesthesia Faculty Researcher Award". The day ended with a lecture by Dr Lee Fleisher on optimizing perioperative outcomes.

As usual, the event was very well attended and enjoyed by everyone. We had no computer glitches and no one went home hungry. I'd like to thank all the UT Anesthesia Department staff for their hard work in organizing this day and making it as successful as it is



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INVITED LECTURERS

ANGLE, P

- **Ontario Medical Association Meeting. Toronto Hilton, October, 2010**
“An Evidence-based approach to PDPH”
- **5th Annual Obstetric Anesthesia Day. Women’s College Hospital, Toronto, November 2010**
“The case of a woman with headache and diplopia after and epidural”
- **Pregnancy and Birth Conference. Marriott Toronto Eaton Centre, December 2010**
“Should Epidurals Be Considered a Negative Health Outcome?”(Debate)
- **Society for Obstetrical Anesthesia & Perinatology Meeting. Henderson, Nevada, April 2011**
“Early Insights into Women’s Experiences of Quality Neuraxial Labor Analgesia”
“Dimensions of the Construct: “Quality Neuraxial Labor Analgesia”
- **McGill Anesthesia Update. Fairmount Royal York Hotel, May 2011**
“Current concepts of PDPH: Using the evidence cycle for clinical decision- making”
- **Society for Obstetrical Canadian Anesthesiologists’ Society Meeting. Toronto, Ontario, June 2011**
“Dimensions of the Construct: “Quality Neuraxial Labor Analgesia”
- **PDPH Update: Rural Emergency Continuum of Care Conference. Delta Grand Okanagan, Kelowna, British Columbia, June 2011**
“Current Concepts of PDPH: Using the Evidence Cycle for clinical decision-making”
- **Rural Emergency Continuum of Care Conference. Delta Grand Okanagan, Kelowna, British Columbia June 2011**
“Issues and Barriers to Maternity Anesthesia Care in Ontario Hospitals with fewer than 2000 deliveries per Annum” (key note speaker)
“Should Epidurals be considered a Negative Health Outcome?”
- **Canadian Anesthesiologists’ Society 67th Annual Meeting. Toronto, Ontario, June 2011**
“Quality Neuraxial Analgesia in Labour: New Insights from the Perspective of Women”
“Using the Evidence Cycle in Clinical Decision-making” (Workshop)
“Reducing Maternal Risk (Symposium) Chair of Session”
“Understanding and Designing a Simple Randomized Controlled Trial” (Research Symposium)
“Should Women be allowed to Eat during Labor?” (Chair of Session)

ARZOLA, C

- **8th Annual Mount Sinai Hospital Obstetric Anesthesia Conference. Toronto, Ontario, September 2010**
“General Anesthesia and Neonatal Outcome”

AVILA, A

- **World Congress of Pain Montreal. Montreal, Quebec, August-September 2010**
“A comparison of RF Conventional versus RF Cool, Synergy, as treatment of Sacroiliac joint complex pain syndromes”
“Intractable chronic hiccups treated with a series of Phrenic and Vagus Nerve Blocks” (abstract /poster presentations)
- **MacMaster University Annual Interventional Pain Meeting. Hamilton, Ontario, September 2010**
“Sacroiliac Joint Complex Pain Disorder, diagnostic and treatments” (Lecture)
- **XXVII Venezuelan Congress of Anesthesiology. Maracaibo, Venezuela, November 2010**
Research committee member, Lectures:
“Radiofrequency Applications in Pain Medicine ,an Update”
“Post operative Cognitive ,behaviour dysfunction and anesthesia”
“Workshop in Ultrasound Guided Interventional Pain Medicine and Regional Anesthesia. Ultrasound in Neuroaxial anesthesia”

AWAD, I

- **Univeristy of Toronto seminar for PGY2. Sunnybrook Hospital, Toronto, Ontario, November 2010**
“Ultrasound guided sciatic and ankle block”

BAKER, A

- **Creating Order Out of Chaos. Toronto, Ontario, November 2010**
“Best Practices in Acute Brain Injury Management”
- **Critical Care Canada Forum. Toronto, Ontario, November 2010**
“An Update on Donor Management”
“Caring for the Brain-Injured Patient: What is the role of monitoring?”
- **Canadian Anesthesiologists’ Society 67th Annual Meeting. Toronto, Ontario, June 2011**
“Transcranial Doppler (TCD): Overview and Hands-on” (Instructor)
“Update on the Management of Stroke”
“Perioperative Sodium Homeostasis”

BALKI, M

- **8th Annual Mount Sinai Hospital Obstetric Anesthesia Conference. Toronto, Ontario, September 2010**
 - “Remifentanyl vs fentanyl for labor analgesia: recent contributions to the literature and the MSH experience.”
 - “Use of ultrasound in Obstetric Anesthesia” (Workshop Leader and Instructor)
 - “Physics of ultrasound and image interpretation”
- **55th Annual Ontario Anesthesia Meeting. Toronto, Ontario, September - October 2010**
 - “Revisiting the pharmacological management of postpartum hemorrhage”
- **Anaesthetic Practice. Toronto, Ontario, November 2010**
 - “Ultrasound for peripheral nerve blocks/neuraxial blocks & vascular access” (Workshop Leader and Instructor)
- **43rd Annual Society for Obstetric Anesthesia and Perinatology Meeting. Henderson, Nevada, April 2011**
 - “Ultrasound Guided Regional Anesthesia” (Workshop Leader and Instructor)
 - Poster Review Session (Moderator)
- **Research Update 2011: Oxytocin hour - Getting good tone: Lessons learnt from lab.**
- **Gastrointestinal Fellowship Symposium. Mount Sinai Hospital, Toronto, Ontario, June 2011**
 - “Anesthetic issues in patients with GI/Liver disorders”
- **Canadian Anesthesiologists’ Society 67th Annual Meeting. Toronto, Ontario, June 2011**
 - “OB Anesthesia Workshop Speaker and Instructor: Ultrasound for labour epidurals”

BEATTIE, S

- **American Society of Anesthesiologists Annual Meeting, International Anesthesia Research Society Panel Presentation. San Diego, California, USA. October 2010**
 - “Physiologic basis of perioperative beta blockade”
- **University of British Columbia, Department of Anesthesia. Vancouver, British Columbia. November, 2010**
 - “Can we improve pre-op consultation; ACE inhibitors, are they safe?” (Visiting Professor)
- **Belgium Society of Anesthesiologists Annual Meeting. Oostende, Brussels, November 2010**
 - “Implications of perioperative anemia”
- **Beth Israel Deaconess Medical Centre. Boston, Massachusetts, USA, February 2011**
 - “Observational trials improve evidence based guidelines” (Visiting Professor)
- **Cleveland Clinic. Cleveland, Ohio, USA, February 2011**
 - “Perioperative β blockers: What does the evidence really tell us?” (Visiting Professor)
- **Society of Cardiovascular Anesthesiologists’ Annual Meeting. Savannah, Georgia, May 2011**
 - “Clinical evidence and clinical decisions”
- **Canadian Anesthesiologists’ Society 67th Annual Meeting. Toronto, Ontario, June 2011**
 - “This year in review, top articles in the field”

- **Great World Fluid Debate. London, England, July 2011**
 - “The burden of perioperative hyperchloremic metabolic acidosis”

BHATIA, A

- **Satellite Symposium of the 13th World Congress on Pain. Montreal, Quebec, August 2010**
 - “Phantom practice station” Ultrasound for Pain Medicine Workshop (Workshop Leader)
 - “Basics of Ultrasound” Ultrasound for Pain Medicine Workshop (Workshop Leader)
- **Anaesthetic Practice 2010. Toronto, Ontario, November 2010**
 - “Management of acute perioperative pain in patients on chronic opioid therapy” (Lecture)
- **Indian Society for Study of Pain Annual Conference. Chandigarh, India, February 2011**
 - “Ultrasound guided peripheral nerve blocks in chronic pain management” (Lecture)
- **Faculty for cadaveric and live subject workshop: Interventional Pain Management Procedures**
- **Ultrasound for Pain Medicine Workshop, UHN Department of Anesthesia. Toronto Western Hospital, Toronto, Ontario, March 2011**
 - “Lumbar facet and caudal canal injection” (Workshop Co-Leader)
- **Canadian Interventional Pain Course 2011. McMaster University Health Sciences, Hamilton, Ontario, April 2011**
 - “Diagnostic lumbar medial branch blocks for management of low back pain” (Lecture and instructor on cadaveric workshop)
- **Geriatric Medicine Post Graduate Academic Half Day. Toronto, Ontario, May 2011**
 - “Interventional modalities for managing chronic non-malignant back pain” (Lecture)
- **Satellite Symposium of the Annual Scientific Meeting, British Pain Society and the Canadian Pain Society. Edinburgh, United Kingdom, June 2011**
 - “Ultrasound for caudal epidural space and sacroiliac joint injections” (Lecture)
- **Annual Scientific Meeting of the British Pain Society and the Canadian Pain Society. Edinburgh, United Kingdom, June 2011**
 - “Ultrasound in pain medicine” (Lecture)

BOHN, D

- **36th Annual Meeting of the International Society for Pediatric & Adolescent Diabetes (ISPAD). Buenos Aires, Argentina, October 2010**
 - “Minimizing the risk of cerebral oedema in DKA”
- **Critical Care Canada Forum 2010. Toronto, Canada, November 2010**
 - “ECMO for adults during pandemics of acute respiratory illness”
 - “The AC Bryan Symposium – Oxygenation in Critical Illness” (Co-Moderator)

- **Risky Business Paediatric Day. London, United Kingdom, November 2010**
 “Emergency Response Teams: Do they improve outcomes?”
- **Pediatric Cardiac Intensive Care Society 8th International Conference. Miami Beach, Florida, December 2010**
 Advanced Knowledge on Mechanical Ventilation for the CICU Physician (co-moderator)
- **6th World Congress on Pediatric Critical Care. Sydney, Australia, March 2011**
 “PICU outcomes have not improved over two decades” (Debate)
 “Hypotonic fluids: a thing of the past?”
 “Glycemic control in critically ill children” (expert panel)
 “The Brain – Monitoring the Injured Brain” (Co-Chair)
 “Supporting the Kidneys: Dry or wet after cardiac surgery?”
- **2nd European Conference on Pediatric and Neonatal Cardiac Intensive Care. Montreux, Switzerland, May 2011**
 “ECMO: general principles, indications and limitations”
 “Hypothermia vs. normothermia after cardiac arrest”
 Meet the Experts session
- **ECMO Course - King Faisal Special Hospital and Research Centre. Jeddah, Saudi Arabia, May 2011**
 “The history of ECMO”
 “Indication and contraindications of ECMO: are there any standard guidelines?”
- **Inaugural NCHD Research Day in OLCH. Crumlin, Ireland, May 2011**
 “What goes around comes around: A 35 year odyssey in paediatric critical care”
- **21st Annual SEECMO Conference. Edmonton, Canada, June 2011**
 “Optimizing ARDS management”

BOWRY, R

- **Emergency Department Process Improvement Program Site Visit. St Michael’s Hospital, Toronto, Ontario, August 2010**
 “Physician Role/Engagement” (Presentation)
- **Webinar Advisory Board International. Toronto, Ontario, September 2010**
 “Science of Improvement in Action”
- **Reducing Emergency Department Wait Times: Building on Momentum and Operationalizing Best Practices. Ontario Hospital Association, Toronto, Ontario, September 2010**
 “Consultant and Resident Engagement” (Presenter)
- **Canadian Anesthesiologists’ Society 67th Annual Meeting. Toronto, Ontario, June 2011**
 “Use of Echocardiography for Aortic Surgery” (Presentation)

BRULL, R

- **Toronto Western Hospital. Toronto, Ontario, December 2010**
 “Advanced Ultrasound-guided Regional Anesthesia

Workshop” (Workshop Leader)

- **Toronto Western Hospital. Toronto, Ontario, March 2011**
 “Infraclavicular and Axillary Brachial Plexus Nerve Blocks” (Workshop Leader)
- **36th Annual Regional Anesthesia Meeting and Workshops, American Society of Regional Anesthesia. Las Vegas, Nevada, May 2011**
 “Neuraxial and Truncal Blocks Workshop thesia and Pain Medicine” (Workshop Leader)
 “Medicolegal Aspects of Regional Anesthesia and Analgesia: Case: Evaluation and Management of “Persistent Paresthesia Following Brachial Plexus Block” (Speaker)
 “Intensive Upper Extremity Workshop” (Workshop Leader)
 “Advanced Ultrasound-guided Regional Anesthesia Workshop” (Workshop Leader)

BYRICK, R

- **Department of Anesthesia, University of Saskatchewan. Saskatoon, Saskatchewan, May 2011**
 “Simulation and Safety”
- **Canadian Anesthesiologists’ Society 67th Annual Meeting. Toronto, Ontario, June 2011**
 “Anesthesia and the Regulator” (CAS Residents Section)

CARVALHO, J

- **8th Annual Obstetric Anesthesia Conference and Workshop. Mount Sinai Hospital, Toronto, Ontario, September 2010**
 “Use of ultrasound in obstetric anesthesia: lumbar spine assessment”
 “Coordinator and Instructor, Workshop: use of ultrasound in obstetric anesthesia”
 “Non-invasive hemodynamic monitors: user-friendly devices that may revolutionize Obstetrics and Obstetric Anesthesia”
- **Three-day Course on Obstetric Anaesthesia and Analgesia, organized by the Obstetric Anaesthetists’ Association. London, United Kingdom, November 2010**
 “Ultrasound guided blocks for the obstetric anaesthetist – spinal, epidurals and TAP blocks”
 “Remifentanyl for labour analgesia – improving analgesia, increasing safety”
 “Modern methods for cardiac output monitoring during caesarean section – understanding maternal physiology”
 “Oxytocin and other uterotonics – advances in the pharmacological management of postpartum haemorrhage”
 “Use of ultrasound in obstetric anesthesia” (Coordinator and Instructor, Workshop)
- **Combined OB-GYN/Anesthesia grand rounds. Toronto East General Hospital, Toronto, Ontario, November 2010**
 “Oxytocin at caesarean section”

- **64th Annual Post Graduate Assembly. New York, USA, December 2010**
“Ultrasound-guided epidurals and spinals. Speaker and workshop instructor, Comprehensive Regional Anesthesia Hands-on, Cadaver and Live Models”
- **56th Annual Scientific Session of the Michigan Society of Anesthesiologists. Troy, Michigan, February 2011**
“Ultrasound assisted epidurals and spinals in obstetrics”
“Postpartum pain management”
- **Department of Anesthesia, Trafalgar Memorial Hospital. Oakville, Ontario, February 2011**
“Update on anesthesia for caesarean section”
- **43th Annual Meeting of the Society for Obstetric Anesthesia and Perinatology, Henderson, Nevada, April 2011**
“Use of ultrasound in obstetric anesthesia: spinals and epidurals, vascular access, and TAP blocks workshop” (Director, Speaker and Instructor)
- **Canadian Anesthesiologists’ Society 67th Annual Meeting. Toronto, Ontario, June 2011**
“Ultrasound for Labour Epidural” (Director, Speaker and Instructor)

CLARKE, H

- **The Benzon Symposia: Acute Pain - Pathophysiology and Risk Factors for Chronification. Copenhagen, Denmark, October 2010**
“Effects of Perioperative $\alpha_2\delta$ voltage-dependent calcium channel blockers on Transition to Chronic Pain after Joint Arthroplasty Surgery”

CHAN, V

- **Ultrasound for Pain Medicine Workshop, Satellite Symposium of the 13th World Congress on Pain. Montreal, Quebec, August 2010**
“Lateral Femoral Cutaneous Nerve, Ilioinguinal/iliohypogastric Nerve” (Workshop Leader)
“Basic techniques for Ultrasound-guided injection” (Speaker)
- **VIII Symposium on Regional Anesthesia and Pain Medicine. Santiago, Chile, September October 2010**
“Sonoanatomy of the Upper Limb” (Workshop Leader)
“Sonoanatomy of the Lower Limb” (Workshop Leader)
“Ultrasound Guided Catheter Techniques, Ultrasound Guided Central Neuraxial Blocks & Outcome of Ultrasound Guided Regional Anesthesia” (Speaker)
“Outcome of Ultrasound Guided Regional Anesthesia” (Speaker)
“Ultrasound Guided Central Neuraxial Blocks & Outcome of Ultrasound Guided Regional Anesthesia” (Speaker)
- **61st American Society of Anesthesiologists Annual Meeting. San Diego, California, October 2010**
“Is Ultrasound the Most Effective and Safest Technique for Peripheral Nerve Block?” (Speaker)
“Peripheral Nerve Blocks: Ultrasound, Simulation and

Stimulation” (Workshop Leader)

- **Toronto Western Hospital. Toronto, Ontario, November 2010**
“Introductory Ultrasound-Guided Regional Anesthesia Workshop” (Speaker, Workshop Leader)
- **Annual Pain Medicine Meeting and Workshops, American Society of Regional Anesthesia and Pain Medicine. Phoenix, Arizona, November 2010**
“Ultrasound for Pain Procedures– Present and Future” (Speaker)
“Principles of Ultrasonography: Physics, Scanning Techniques, Knobology” (Speaker)
- **Toronto Western Hospital. Toronto, Ontario, December 2010**
“Advanced Ultrasound-guided Regional Anesthesia Workshop” (Speaker, Workshop Leader)
- **64nd Postgraduate Assembly in Anesthesiology, The New York State Society of Anesthesiologists, Inc. New York, USA, December 2010**
“Ultrasound, Simulation and Stimulation for Peripheral Nerve Blocks” (Workshop Leader)
“Update on Ultrasound Guided Regional Anesthesia” (Speaker)
- **NYSORA 9th Annual Regional Anesthesia and Acute Pain Management Symposium. December 2010**
“Single-Injection and Continuous Sciatic and Popliteal Blocks” (Workshop Leader)
“Ultrasound Guided Regional Anesthesia Artifacts, Pitfalls and Clinical Pearls” (Speaker)
- **Toronto Western Hospital, Toronto. Ontario, February 2011**
“Introductory Ultrasound-Guided Regional Anesthesia Workshop” (Workshop Leader, Speaker)
- **Toronto Western Hospital, Toronto. Ontario, March 2011**
“Advanced Ultrasound-guided Regional Anesthesia Workshop” (Workshop Leader)
“Advanced Ultrasound-guided Regional Anesthesia Workshop” (Speaker)
- **3rd USRA Symposium of Regional Anaesthesia - Ultrasound guided nerve blocks – seminar and workshops. University of Potsdam, Potsdam, Germany, March 2011**
“Sonoanatomy for Lower Extremity Nerve Blocks” (Workshop Leader)
“Sonoanatomy for Central Neuraxial and Anterior Abdominal Wall Blocks” (Workshop Leader)
“Where are the pitfalls? Errors and Artifacts” (Speaker)
“What will the future bring– in Europe and North America?” (Speaker)
“Sonoanatomy of Peripheral Nerves and Surrounding Tissues” (Workshop Leader)
“Sonoanatomy of the Brachial Plexus and Peripheral Nerves” (Workshop Leader)
- **International Symposium on Spine and Paravertebral Sonography for Anaesthesia and Pain Medicine 2011. University of Hong Kong, Shatin, Hong Kong, March 2011**
“Lumbar Paravertebral Imaging” (Workshop Leader)
“New Applications of Ultrasound in Anaesthesia and Future Trends in Regional Anaesthesia” (Speaker)
“Ultrasound Guided Peripheral Nerve Blocks – Where

Are We Today?" (Speaker)

"Brachial Plexus Block above the Clavicle - Interscalene and Supraclavicular" (Workshop Leader)

• **UHN Department of Anesthesia. Toronto Western Hospital, Toronto, Ontario, March 2011**

"Cervical sympathetic block and ilioinguinal/iliohypogastric Nerve. Ultrasound for Pain Medicine Workshop" (Workshop Leader)

"Sonoanatomy overview: peripheral and axial structures. Ultrasound for Pain Medicine Workshop" (Speaker)

• **1st African Society for Regional Anesthesia meeting. Cairo, Egypt, April 2011**

"Ultrasound Guided Upper and Lower Limb Blocks" (Workshop Leader)

"Ultrasound Guided Brachial Plexus Block" (Speaker)

"Ultrasound Guided Lower Limb Blocks" (Speaker)

• **8th Annual International Symposium of Ultrasound for Regional Anesthesia and Pain Medicine. Bern, Switzerland, April 2011**

"Ultrasound Guided Upper and Lower Limb Blocks" (Workshop Leader)

"Recent and Relevant Literature in Ultrasound Guided Regional Anaesthesia" (Speaker)

"Ultrasound Guided Catheter Techniques – Tips and Tricks" (Speaker)

• **Cadaver Workshop Innsbruck Anatomical Department, Medical University of Innsbruck Innsbruck. Austria, April 2011**

"Cadaver Workshop" (Workshop Leader)

• **3rd Annual Ultrasound Guided Regional Anesthesia Workshop Upper and Lower Extremity Peripheral Nerve Blocks. Little Rock, Arkansas, April - May 2011**

"Ultrasound Guided Brachial Plexus and Lower Limb Blocks" (Live Demonstrations)

"Ultrasound Guided Brachial Plexus" (Workshop Leader)

"Basics of Ultrasound Guided Regional Anesthesia" (Speaker)

"Axillary Brachial Plexus Block" (Speaker)

• **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, May 2011**

"Intraneural Injection: Is It Ever Indicated" (Speaker)

"New Uses of Ultrasound in (Non-Regional) Anaesthesia Practice" (Speaker)

"Training, Competency and Certification in Ultrasound-Guided Regional Anaesthesia" (Speaker)

"Does Regional Anaesthesia Improve Outcomes?" (Speaker)

"Breaking the Sound Barrier: Update on Ultrasound in Clinical Practice" (Speaker)

"Live Pearls: Realtime Ultrasound-Guided Regional Anaesthesia Demonstration" (Moderator, Poster Session Facilitator)

• **85th International Anesthesia Research Society Clinical & Scientific Congress. Vancouver, British Columbia, May 2011**

"Ultrasound Guided Perineural Catheter" (Speaker)

"Advanced Ultrasound Guided Nerve Block" (Workshop Leader)

"Peripheral Nerve Blocks: Ultrasound, Simulation and Stimulation" (Workshop Leader)

• **Canadian Anesthesiologists' Society 67th Annual Meeting. Toronto, Ontario, June 2011**

"Ultrasound and Regional Anesthesia" (Panel Speaker)

"The Increasing use of Ultrasound in Anesthesia" (Speaker)

CHIN, KJ

• **Tan Tock Seng Hospital. Singapore, July 2010**

"Infraclavicular and Axillary Blocks" (Speaker)

• **Ultrasound for Regional Anesthesia Basic Workshop. University of Toronto, Toronto, Ontario, November 2010**

"Ultrasound-guided Regional Anesthesia of the Lower Limb" (Speaker)

• **Toronto Western Hospital. Toronto, Ontario, November 2010**

"Introductory Ultrasound-Guided Regional Anesthesia Workshop" (Workshop Leader)

• **National University Hospital. Singapore, December 2010**

"Ultrasound-guided Central Neuraxial Blockade" (Speaker)

• **Tan Tock Seng Hospital. Singapore, January 2011**

"Developing a Training Program in Regional Anesthesia" (Speaker)

• **University of Toronto. Toronto, Ontario, February 2011**

"Ultrasound-guided Regional Anesthesia of the Lower Limb, Ultrasound for Regional Anesthesia Basic Workshop" (Speaker)

• **Toronto Western Hospital. Toronto, Ontario, February 2011**

"Introductory Ultrasound-Guided Regional Anesthesia Workshop" (Workshop Leader)

• **International Symposium on Spine and Paravertebral Sonography for Anaesthesia and Pain Medicine 2011. University of Hong Kong, Shatin, Hong Kong, March 2011**

"Lumbar Spine Imaging" (Workshop Leader)

"Ultrasound Imaging of the Lumbar Spine and Injection Techniques" (Speaker)

"Brachial Plexus Block below the Clavicle - Infraclavicular and Axillary" (Workshop Leader)

• **NWAC World Anesthesia Congress. Rome, Italy, April 2011**

"Supraclavicular Block" (Workshop Leader)

"Ultrasound - Guided Sciatic and Popliteal Blocks" (Workshop Leader)

• **36th Annual Regional Anesthesia Meeting and Workshops, American Society of Regional Anesthesia and Pain Medicine. Las Vegas, Nevada, May 2011**

"Intensive Ultrasound Workshop" (Workshop Leader)

• **Canadian Anesthesiologists' Society 67th Annual Meeting. Toronto, Ontario, June 2011**

"Ultrasound-guided regional anesthesia – advanced – Torso" (Workshop Leader)

CHOI, S

- **11th Annual Sunnybrook/Mont Tremblant Peri-Operative Conference. February 2011**
 - “Complications of Regional Anesthesia”
 - “Two papers that changed my practice”

CHUNG, F

- **Department of Anesthesia, Chinese University of Hong Kong. Hong Kong, August 2010**
 - “Obstructive Sleep Apnea Patient: What is New?” (Visiting Professor)
- **Department of Anesthesia, Beth Israel Deaconess Medical Center, Harvard Medical School. Boston, Massachusetts, September 2010**
 - “OSA & Anesthesia: Are we sleep walking toward disaster?” (Visiting Professor)
 - “Ambulatory Anesthesia Update” (Visiting Professor)
- **American Society of Anesthesiologists. San Diego, California, October 2010**
 - “Obstructive sleep apnea and Anesthesia, more questions than answers” (Speaker)
 - “Challenges in the perioperative management of OSA patients” (Speaker)
 - “Do we need escort? When can we drive? Do we need someone at home?” (Speaker)
- **Kaiser Sunnyside Hospital. Portland, Oregon, January 2011**
 - “Obstructive sleep apnea: A perioperative challenge for everyone” (Speaker)
- **Marriott Eaton Centre, University of Toronto. Toronto, Ontario, February 2011**
 - “Perioperative Management of OSA Patients – A Challenge for Everyone, Office-Based Anesthesia QA Rounds” (Speaker)
- **Department of Anesthesiology, Philippine General Hospital, University of the Philippines. Manila, Philippines, February 2011**
 - “Fast track: the role of desflurane in ambulatory anesthesia” (Visiting Professor)
- **17th ASEAN Congress of Anesthesiologists. Manila, Philippines, February 2011**
 - “Ambulatory Anesthesia and the cost effectiveness on desflurane: Safety issues in the Ambulatory Unit” (Speaker)
 - “Preoperative Clinic, what can anesthesiologists do?” (Speaker)
- **St. Joseph’s Health Centre. Toronto, Ontario, March 2011**
 - “STOP Smoking for Safer Surgery- A Teachable Moment” (Speaker)
- **26th Annual Meeting Society for Ambulatory Anesthesia. San Antonio, Texas, May 2011**
 - “Obstructive sleep apnea: is it safe for outpatient surgery” (Speaker)
- **Combined Scientific Meeting of Australian and New Zealand College of Anaesthetists and the Hong Kong**

College of Anaesthesiologists, Hong Kong Convention Centre. Hong Kong, May 2011

“Screening and management of high risk patients for general anesthesia” (Speaker)

- **Anesthesia Patient Safety Foundation meeting, Phoenix, Arizona, June 2011**
 - “Essential monitoring strategies to detect clinically significant drug- induced respiratory depression in the postoperative period” (Speaker)
- **European Society of Anesthesia meeting. Amsterdam, Netherlands, June 2011**
 - “Information technology in ambulatory anesthesia” (Speaker)
 - “Using database to guide clinical practice in ambulatory anesthesia” (Speaker)
- **Canadian Anesthesiologists’ Society 67th Annual meeting. Toronto, Ontario, June 2011**
 - “Smoking and Anesthesia: Making “Quit” Happen” (Panel Speaker)

COOPER, R

- **Peking University Peoples Hospital #2. Beijing, China, August 2010**
 - “Laryngoscopy—Past and Future” (Lecture)
- **Chinese Anesthesia and Pain Management Association Annual Conference. Chengdu, Sichuan, China, August 2010**
 - “Laryngoscopy—Past and Future” (Lecture)
 - “Difficult Airway Management” (Workshop)
- **West China Hospital, University of Sichuan. China, August 2010**
 - Resident’s Lecture: “Airway Assessment” (Lecture)
 - Grand Rounds: “Extubation of the Difficult Airway” (Lecture)
- **Zhengzhou University Hospital. Zhengzhou, Henan, China, August 2010**
 - Grand Rounds: “Laryngoscopy—Past and Future” (Lecture)
- **Society for Airway Management Annual Scientific Meeting. Chicago, Illinois, September 2010**
 - “SAM Research Award—work in progress” (Lecture)
 - “Bragging rights—case presentation” (Lecture)
 - “Video laryngoscopy: Effective and Appropriate Application of a New Technology—Special Trainee Session” (Round table)
 - “Extubation and Tube Exchange” (Workshop)
- **American Society of Anesthesiologists Annual Meeting. San Diego, California, October 2010**
 - “Extubation of the Difficult Airway—State of the Art” (Lecture)
 - “Fiberoptic Intubation—Basic” (Workshop)
 - “Airway Management—Advanced” (Workshop)
- **National Conference on the Difficult Airway, Tata Memorial Center. Mumbai, India, December 2010**
 - “Extubation of the Difficult Airway” (Lecture)
 - “Evolution of Airway Management, Plenary Session” (Lecture)

“Airway Algorithms: Are they helpful ,Plenary Session” (Lecture)
 “Cricoid Pressure-useful or useless?” (Debate)
 “Meet the Expert: How to optimize use of your videolaryngoscope”

- **XV Curso Teórico-Practico De Manejo de la Vía del la via Aérea e Intubación Difícil. Valencia Spain, February 2011**
 “My patient’s asleep and I can’t intubate: supraglottic airway or video-laryngoscope—Pro Con Debate” (Lecture)
- **Toronto Anesthesia Symposium. Toronto, Ontario, April 2011**
 “The Five Most Important Airway Papers of the past year” (Lecture)
 “Airway Workshop” (Workshop)
- **Anesthesiologendagen 2011: Dutch Society of Anesthesiologists, Annual Scientific Meeting. Maastricht, Netherlands, May 2011**
 “Imaging the Airway” (Lecture)
- **Lebanese Society of Anesthesiologists, Annual Scientific Meeting. Beirut, Lebanon, May 2011**
 “Extubation of the Difficult Airway” (Lecture)
 “Video laryngoscopy” (Lecture)
 “Video laryngoscopy” (Workshop)
- **European Society of Anaesthesiology, Euroanaesthesia 2011. Amsterdam, Netherlands, June 2011**
 “Airway Workshop”

COX, P

- **Paediatric Anaesthesia Conference. Toronto, Ontario, November 2010**
 “Communication at the interface”
- **Brazilian Congress of Anesthesiology in Porto Alegre. Porto Allegre, Brazil, November 2010**
 “Pulse Oximetry beyond numbers: news and perspectives” (Invited Speaker)
- **Annual Canadian Critical Care Conference. Whistler, British Columbia, February 2011**
 “Leadership strategies” (Organizing Committee/Invited Speaker)
- **Biannual Controversies in Perioperative Medicine (Sponsored by North York General Hospital). Alsace, France, May 2011**
 “Adaptation to abnormal environments” (Invited Speaker)
 “Evolution and oxygen” (Invited Speaker)
 “Silence kills” (Invited Speaker)
 “Communication at Interfaces” (Invited Speaker)
 “Protocols, the good the bad and the ugly” (Invited Speaker)

CRAWFORD, M

- **Canadian Anesthesiologists’ Society 67th Annual Meeting. Toronto, Ontario, June 2011**
 “Pediatric Anesthesia” Co-Chair, Poster Discussion

CUTHBERTSON, B

- **Department of Anaesthesia, Sunnybrook Health Sciences Centre. Toronto, Ontario, September 2010**
 “Biomarkers and the assessment of pre-operative risk in major surgery” (Invited Speaker)
- **Department of Critical Care Medicine, Sunnybrook Health Sciences Centre. Toronto, Ontario, October 2010**
 “Last Rights”
- **Department of Critical Care Medicine, Sunnybrook Health Sciences Centre. Toronto, Ontario, October 2010**
 “Anyone for SuDDICU - Changing Practice through Clinical Research!” (Invited Speaker)
- **Critical Care Canada Forum. Toronto, Ontario, November 2010**
 “Clinical Research 1” (Moderator)
 “RCTs - Cost-Effectiveness should impact practice” (Invited Speaker)
 “Long-term Outcomes after Critical Care” (Moderator)
 “ICU Follow-up - Where to now?” (Invited Speaker)
 “Fluid-loading before high-risk surgery - An RCT” (Invited Speaker)
- **Department of Critical Care Medicine, Sunnybrook Health Sciences Centre. Toronto, Ontario, November 2010**
 “Last Rights” (Invited Speaker)
- **CCCC/CCCS Resident’s Day 2010. Toronto, Ontario, November 2010**
 “24/7 Intensivist Staffing: Sounds Good, Is Probably Bad” (Invited Speaker)
- **UKSBM 6th Scientific Meeting / NPRI Annual Scientific Meeting. Aberdeen, United Kingdom, December 2010**
 “Behavioural analysis of complex clinical interventions: Case studies of Selective Decontamination of the Digestive Tract use in intensive care” (Invited Speaker)
- **Department of Critical Care Medicine, Sunnybrook Health Sciences Centre. Toronto, Ontario, February 2011**
 “Last Rights” (Invited Speaker)

DAVIES, S

- **North York Anesthesia Continuing Education Rounds, North York General Hospital. Toronto, Ontario, September 2010**
 “Aseptic Complications and Regional Anesthesia. What can we do to minimize the risk?”
- **8th Annual Mount Sinai Hospital Obstetric Anesthesia Conference and Workshop. Toronto, Ontario, September 2010**
 “The Big Bleed: Management of massive transfusion in Obstetrics”
- **55th Ontario Anesthesia Meeting. Toronto, Ontario, October 2010**
 “Maternal Morbidity and Mortality: Lessons Learned from Clinician Errors and Unexpected Events”

- **North York Continuing Education Rounds, North York General Hospital. Toronto, Ontario. November 2010**
“Maternal Morbidity and Mortality: Lessons Learned from Clinician Errors and Unexpected Events”
- **Anesthetic Practice 2010. Toronto, Ontario, November 2010**
“Infection Control for Regional Anesthesia. How Clean Are You?”
- **Canadian Anesthesiologists’ Society 67th Annual Meeting. Toronto, Ontario, June 2011**
“Online Continuing Education Web Site: Development and Future Directions”

DEVITO, I

- **8th Annual Mount Sinai Hospital Obstetric Anesthesia Conference. Toronto, Ontario, September 2010**
“Common Issues in Obstetrical Anesthesia”
- **Faculty Development Day 2010, Department of Anesthesia. University of Toronto, Toronto, Ontario, November 2010**
“Teaching Tips from the Experts”(Panel Discussion)

DJAIANI, G

- **Society Cardiovascular Anesthesiologists. Savanna, Georgia, April – May 2011**
“Tranexamic Acid And Postoperative Seizures in High Risk Cardiac Surgery”
- **European Association of Cardiothoracic Anesthesiologists. Vienna, Austria, June 2011**
“Different anesthetic techniques for Arteriovenous fistula formation: Early and late fistula failure rates”
“Endovascular approach is associated with lower delirium rates after aortic aneurysm repair”
- **European Society of Anesthesiologists 2011. Amsterdam, Netherland, June 2011**
“Type of Anesthesia and Postoperative Delirium After Vascular Surgery”

FRIEDMAN, Z

- **Canadian Anesthesiologists’ Society 67th Annual Meeting. Toronto, Ontario, June 2011**
“Smoking and Anesthesia symposium: Making “Quit” Happen”
“Surgical Airways: Enhancing Your Skills of Cricothyrotomy from Mannequins to Hybrid Pig Trachea - High-fidelity Patient Simulator to Human Cadavers” (Workshop instructor)

GARDNER -NIX, J

- **International Association for the Study of Pain Congress. Montreal, Ontario, August 2010**
“Blending sustained-release or long acting opioids may improve efficacy, and reduce development of tolerance in non cancer pain patients without increasing side effects: long term follow up” (Poster presentation)

- **14th Annual Geriatric Psychiatry Forum. Peterborough, Ontario, April 2011**
“Are Meditation and Mindfulness replacing Morphine and Marihuana in the 21st Century?”

GOLDSZMIDT, E

- **Mount Sinai Obstetric Anesthesia Conference, Mount Sinai Hospital. September 2010**
“Ultrasound for Vascular Access Workshop”
- **8th Annual Mount Sinai Hospital Obstetric Anesthesia Conference. Toronto, Ontario, September 2010**
“Failure of Regional Anesthesia in Obstetrics”
- **Ontario Anesthesia Meeting. Toronto, Ontario, October 2010**
Tariff Report
- **William Osler Health Centre. Brampton, Ontario, January 2011**
“Postdural Puncture Headaches”
- **Society for Obstetric Anesthesia 43rd Annual Meeting. Lake Las Vegas, Nevada, April 2011**
“Ultrasound for Vascular Access” (Workshop)

GRAHAM, M

- **University of Western Ontario. London, Ontario, May 2011**
Visiting Oral Examiner

HALPERN, S

- **Vaughan Estates. Toronto, Ontario, September 2010**
“Obstetrical Anesthesia. Critical Care in Obstetrics”
- **New York School of Medicine. New York, New York, November 2010**
“Trouble rounds—Anesthesia for the parturient with intestinal obstruction Anesthesia for the morbidly obese parturient”
- **5th Annual Obstetric Anesthesia Day. Women’s College Hospital. Toronto, Ontario, November 2010**
“Anesthesia for the parturient with Hepatitis C”
- **Obstetrical Anaesthesia Association of Great Britain’s Annual Meeting. Edinburgh, Scotland, United Kingdom, May 2011**
“The incidence of epidural analgesia for labour negatively correlates with caesarean section rates in Canada. IJOA 2011;20: May supplement O19”
- **Critical Challenges Conference 2011, Sunnybrook Health Sciences Centre. Toronto, Ontario, June 2011**
“Obstetrical Anesthesia”
- **Annual Meeting Canadian Society of Anesthesiologists. Toronto, Ontario, June 2011**
“Obstetrical Anesthesia abstract presentations” (Chair of Session)
“Clinical Research Methods: Understanding and Critically appraising meta-analyses”

HANLON, J

- **Philippine Society of Anesthesiologists – Negros Occidental Chapter. Bacolod City, Philippines, February 2011**
 “Acute Pain Management”
 “Non-Obstetrical Surgery During Pregnancy”

HARE, G

- **American Society of Anesthesiologists Annual Meeting. San Diego, California, October 2010**
 “Anemia as a risk factor for surgery: The physiology of anemia” (Oral Presentation)
 “Differential survival and cardiovascular responses to anemia and hypoxia regulated by nNOS”
- **Society of Cardiovascular Anesthesiologists Annual Meeting. Savannah, Georgia, May 2011**
 “Utilizing HIF-(ODD) Luciferase mice to determine the hypoxic threshold after recovery from hemodilutional anemia”
- **IARS Annual Meeting. Vancouver, British Columbia, May 2011**
 “Differences in organ specific HIF- α expression before and after acute anemia in HIF- α (ODD) Luciferase mice”
- **Grand Rounds Lecture Series, Department of Anesthesiology, Weill Cornell Medical College. New York, USA, May 2011**
 “Anemia-induced morbidity and mortality in perioperative patients: can we improve patient outcome by defining the mechanism(s)?”

HEGGIE, J

- **Annual TEE symposium Toronto, Interactive Wet Lab. Toronto, Ontario, November 2010**
 “Dissection of the Porcine Heart and Corresponding TEE images”

HOCKMANN, E

- **Sunnybrook Critical Care Departmental Grand Round. Toronto, Ontario, May 2011**
 “Point of Care Ultrasound in Caring for the Critically Ill patient, A View of the Future”
- **The Critical Skills Hemodynamics Symposium 2011, Scarborough General Hospital. Toronto, Ontario, May 2011**
 “Capnography in the Critically Ill Patient; Beyond Endotracheal Tube Positioning” (Invited Lecturer)
- **Case Presentation: TEE Interesting Cases Canadian Anesthesia Society Annual Meeting. Toronto, Ontario, June 2011**
 “Left Atrial Perforation During Pulmonary Vein Ablation; Finding the Catheter Tip”

HOUSTON, P

- **Sunnybrook Health Sciences Centre Search Committee. Toronto, Canada, October 2010**

“Education Update: St. Michael’s Hospital”

- **CEPD Strategic Planning Retreat, University of Toronto. Toronto, Canada, April 2011**
 “The role of the Vice President, Education and Support of Continuing Education at St. Michael’s”
- **East West Alliance Meeting. Shantou, China. May 2011**
 “Medical School Administration and Financing: Improving the Student Experience”

IDESTRUP C

- **Toronto Anesthesia Practice 2010. Toronto, Ontario, November 2010**
 “An Introduction to Ultrasound Imaging for Anesthesiologists”

JADAD, A

- **World Dental Federation Congress- Oral Health for All – local challenges, global solutions. Salvador de Bahia, Brazil, September 2010**
 “Evidence-Based Science: The Role of Chewing gum in Caries Prevention FDI”
- **Ontario Hospital Association. Toronto, Canada, September 2010**
 “Supporting each other: A cyber- companion’s perspective. E-Patients: Changing the Health Care System in Real-Time”
- **Borden Ladner Gervais Retreat. Collingwood, Ontario, October 2010**
 “Canadian physicians and hospitals in the 21st century: myths and misconceptions”
- **Institute for Life Course & Aging. Toronto, Ontario, October 2010**
 “Technology in Palliative and Supportive Care Delivery” AGE 1000 Course (Collaborative Program in Aging, Palliative and Supportive Care Across the Life Course)
- **18th International Congress on Palliative Care. Montreal, Canada, October 2010**
 “Supporting each other in the age of social media and global communications: are we ready to transcend our boundaries?” (Plenary session)
 “Google, Wikipedia, Facebook, Twitter and other social media in palliative care: What new skills do we need to develop to meet our patients’ expectations?” (Workshop)
- **MOHLTC eHealth speaker series, Ministry of Health and Long-Term Care. Toronto, Ontario, October 2010**
 “Supporting each other in the age of mobile telecommunications and social networks: we cannot afford to become the land of insurmountable opportunities”
- **INNOVAR PARA COMPETIR - Ciclo de reflexión Mejorando la productividad a través de la Innovación, Exclusivo para los números uno de la gestión en salud. Buenos Aires, Argentina, October 2010**
 “Innovación: ¿qué es y que no es? Los mitos de la innovación” (Lecture)
 “Ejemplos de organizaciones innovadoras. ¿Cuales

son las mayores oportunidades y barreras en este momento?" (Workshop)

- **Social Aetiology of Mental Illness (SAMI) Training Program Webinar. Toronto, Ontario, October 2010**
"When people live with multiple chronic diseases: tackling a global complex health problem using social media"
- **Anesthesia Alumni Dinner. Department of Anesthesia. Michael G DeGroot School of Medicine, McMaster University. Hamilton, Ontario, October 2010**
"Anesthesia in the age of the Internet: Will we be needed?"
- **Getting better with eHealth: A Spoonful of Sugar for Scottish Primary Care Conference. Crieff Hydro Hotel, Perthshire, Scotland, November, 2010**
"eHealth Innovation: are we ready to follow our patients?"
- **COMPASS Research Masterclass Series: Complex interventions: From theory to implementation. Complex Interventions using eHealth and Social Media, University of Edinburgh. Scotland, United Kingdom, November 2010**
"Google, Facebook, and Twitter... Oh, my! What skills do we need in the second decade of the 21st century?"
- **Dalla Lana School of Public Health. University of Toronto, Toronto, Ontario, November 2010**
"Knowledge transfer and exchange. Public Health Research Methods" (CHL5203)
- **Department of Health Policy, Management and Evaluation (HPME) Speaker Series. November 2010**
"eHealth: A Global Perspective on eHealth Research"
- **5th International Conference on Cooperation and Promotion of Information Resources in Science and Technology. Beijing, China, November 2010**
"People-centered Health Enabled by ICTs: A Review of Radical 'Glocal' Innovations, with Emphasis on Collaborative Opportunities with China"
- **Foster the Partnership: Canadian GU Cancers Survivorship Conference. Kingsbridge, Ontario, January 2011**
"Supporting each other through the continuum of cancer care: a view from the age of social networks?"
- **Best Practices Day 2011: Infusing the Principles of Rehabilitation Across the Care Continuum, GTA Rehab Network. Toronto, Ontario, March 2011**
"Beyond the Restoration of Function: Rendering Ourselves Irrelevant"
- **El Palacio de Congresos y Exposiciones Lienzo Norte de Ávila. Spain, March 2011**
"Opening session at the Jornadas eSalud Castilla y Leon"
- **COMPASS 2011 Annual Scientific Meeting, Royal College of Physicians. Edinburgh, Scotland, United Kingdom, April 2011**
"Google, Facebook, and Twitter ... Oh my! What skills do we need in the second decade of the 21st Century?" (Workshop)
- **eHealth Innovation and Health Information Management Comprehensive Course, HPME, University of Toronto.**

Toronto, Ontario, April 2011

"Future-proofing the System" HAD 6764

- **The First Adolescent and Young Adult Oncology Symposium, Princess Margaret & SickKids Hospital. Toronto, Ontario, May 2011**
"Can I Facebook You? The Role of Social Media in Improving Care for AYA with Cancer"
- **III Congreso Nacional de Atención Sanitaria al Paciente Crónico. Donostia, San Sebastian, Spain, May 2011**
"Panorama global de e-Health"
- **III Congreso Nacional de Atención Sanitaria al Paciente Crónico. Donostia, San Sebastian, Spain, May 2011**
"Escuchando la voz de los pacientes y sus cuidadores"
- **Web Summit and World Internet Day. Bilbao, Spain, May 2011**
"Making a longer life worth living: supporting each other in the age of social media. eHealth section keynote"
- **Canadian Animal Health Institute: 2011 Annual Meeting - "Food Matters": Bromont, Québec, June 2011**
"Facebook, YouTube, Twitter, Oh My! Web 2.0 & Its Implications for Business Matters"
- **Cure4Kids Global Summit, St. Jude Children's Research Hospital. Memphis, Tennessee, June 2011**
"Reverse mentorship in the age of the Internet and global telecommunications: Are we ready to learn from our children?"

KARKOUTI, K

- **University of Western Ontario. London, Ontario, September 2010.**
"New hemostatic drugs in cardiac surgery" (Visiting Professor)
"Anemia or blood transfusion – which is the lesser of two evils?" (Visiting Professor)
- **University of British Columbia. Vancouver, British Columbia, October 2010**
"New pharmacological agents used for hemostasis in cardiac surgery" (Visiting Professor)
"Anemia or blood transfusion – which is the lesser of two evils?" (Visiting Professor)
- **American Society of Anesthesiologists. San Diego, California, October 2010**
"Recombinant factors VII and XIII in cardiac surgery"
- **Visiting Professor, University of Manitoba. Winnipeg, Manitoba, November 2010**
"Anemia or blood transfusion – which is the lesser of two evils?"
"An update on the use of hemostatic agents during surgery"
"A hitchhiker's guide to the medical literature"
- **International Initiative on Haemostasis Management in Cardiac Surgery. Boston, Massachusetts. November 2010**
"Why is red-cell transfusion more harmful in anemic patients?"

- **Society for Cardiothoracic Surgery in Great Britain and Ireland Annual Meeting.** London, England, April 2011
“Postoperative bleeding: more than just a lost night’s sleep”
- **UCLA’s Goal-Directed Therapy Symposium.** Newport Beach, California, June 2011
“Transfusion Trigger”

KATZNELSON, R

- **Symposium of Manchester Medical Society Section of Anesthesia.** September 2010.
“What is new in postoperative delirium?”
- **Grand rounds, Visiting Professor, Institute for Anesthesiology and Intensive Care, Hirslanden Clinic.** Zurich, Switzerland, October 2010
“Postoperative delirium: definition, prevention, management”
- **Symposium CIS Alpinum XLVIII, University Hospital.** Zurich, Switzerland, October 2010.
“When confusion jeopardizes critical care outcomes: new aspects on prevention and treatment of postoperative delirium”
- **American Society of Anesthesiologists’ Meeting.** San Diego, California, USA, October 2010.
“Isocapnic Hyperpnoea in obese patients anesthetized with isoflurane” (Oral presentation)

KAVANAGH, B

- **ANZICS/ACCCN Intensive Care Annual Scientific Meeting.** Melbourne, Australia, October 2010
Invited speaker
- **American Society of Anesthesiologists Annual Meeting.** San Diego, USA, October 2010
Invited speaker
“Pulmonary Hypertension” (Refresher Course Lecturer)
- **3rd Congress of European Academy of Pediatric Societies.** Copenhagen, Denmark, October 2010
Invited speaker
- **Critical Care Canada Forum.** Toronto, Ontario, November 2010
“Foundations from the laboratory for designing trials”
- **Plenary Session (Co-Moderator)**
“ARDS- CO₂, CO₂ Removal and Deadspace” (Co-Moderator)
“CO₂ to protect against VILI”
“Plenary Debate: Physician involvement with industry harms the physician-patient relationship” (Co-Moderator)
“Activation of an injurious gene”
- **Schwartz-Reisman Visiting SickKids Scholars Program.** Israel, November 2010
Invited speaker/Invited Professor
- **Dalhousie University – Department of Physiology.** Halifax, Nova Scotia, December 2010
Invited speaker/Visiting Professor
“How Does Mechanical Ventilation Cause Lung Injury?”

- **Society of Critical Care Medicine 2011 Congress.** San Diego, California, January 2011
“Role of HFOV in ARDS”
- **17th Annual Winterlude Symposium, Department of Anesthesiology.** University of Ottawa, Ottawa, Ontario, February 2011
“This house is of the opinion that recent research tells us how to ventilate normal lungs” (Pro/Con Debate)
- **6th World Congress on Pediatric Critical Care.** Sydney, Australia, March 2011
“NICE or not so NICE: Tight glycemic control in children” (Pro/Con Debate)
“Understanding VILI in children”
“Novel ventilatory strategies”
“Conventional RCTs in children are inappropriate” (Pro/Con Debate)
- **31st International Symposium of Intensive Care and Emergency Medicine.** Brussels, Belgium, March 2011
“Atelectrauma is not important”
“The host response to infection”(Moderator)
“Hypercapnia is good for you”(Pro/Con Debate)
“Negative-pressure ventilation may be better”
“What do we know about PEEP levels?”
“Glucose control: Review of the evidence”
- **2nd Saudi Critical Care Society International Conference.** Riyadh, Saudi Arabia, April 2011
“Current evidence and future direction in pathogenesis of VILI”
“CO₂ in PICU”
“Protocols in acute care”
- **American Thoracic Society Annual Meeting.** Denver, Colorado, May 2011
Mini Symposium: “Lung Injury in the Intensive Care Unit: Mechanisms, Therapies, Physiology and Outcomes” (Co-Chair)
Poster Session: “Acute Lung Injury: Diverse Novel Insights” (Lead Facilitator)
“The Consequences of Five Important Papers: From the Author” (and the Editor) (Co-Chair)
“(Non)Permissive Hypercapnia: Bench to Bedside” (Co-Chair)
- **52nd Annual McGill Anesthesia Update.** Montreal, Quebec, May 2011
“Guidelines and protocols for the pediatric patient in the acute care setting”
- **ERASMUS Critical Care Days.** Rotterdam, Netherlands, June 2011
“Molecular mechanism of lung injury”(key note lecture)
“Ethics and Ventilation session” (Co-Chair)
“Protective ventilation should be done in all our patients: relevant for all age groups in pediatrics?”
- **6th International Pediatric Transplant Association (IPTA) Congress on Pediatric Transplantation.** Montreal, Quebec, June 2011
“Donation after cardiac death in children: experience and outcomes”

KEALEY, A

- **Anaesthetic Practice 2010. Toronto, Ontario, November 2010**
“Should We Cancel this Case” (Panel Leader)
- **Annual Mont Tremblant Perioperative Conference. Tremblant, Quebec, February 2011**
“Complications of Regional Anesthesia,” (Workshop)
“Should We Cancel this Case” (Panel)
- **ASRA 36th Annual Regional Anesthesia Meeting and Workshops. Las Vegas, Nevada, May 2011**
“Ultrasound for Upper Extremities Workshops” (Intensive Ultrasound Workshop)
- **Canadian Anesthesiologists’ Society 67th Annual meeting. Toronto, Ontario, June 2011**
“Ultrasound for Upper Extremities Workshops”

LAFLAMME, C

- **Provincial CME. Vancouver, Canada. October 2010 and January 2011**
“How to Implement Canadian Surgical Site Infection Guidelines”
- **Canada’s Forum on Patient Safety and Quality Improvement 2011. Montreal, Quebec, March 2011**
“Mitigation Strategy to Reduce Surgical Site Infection”

LO, N

- **Bone and Joint Canada – National Hip Fracture Meeting. Toronto, Ontario, December 2010**
“Perioperative Pain Management for Hip Fracture Patients”
- **3rd Annual Orthopaedic Expert Panel Forum – Bone and Joint Canada. Toronto, Ontario, March 2011**
“Multi-modal Perioperative Pain Management”
- **Canadian Anesthesiologists’ Society 67th Annual meeting. Toronto, Ontario, June 2011**
“Anesthesia in the 21st Century: Getting the Most out of Your iPad/iPhone”

MANNINEN, P

- **Anesthesia Clinical Symposium: Anesthesia Trends, The Medical City. Manila, Philippines, September 2010**
“Advances in Neuro-Anesthesia” (Speaker)
“Monitoring of the brain and spinal cord”(Speaker)
- **Department of Anesthesiology, University of the Philippines. Manila, September 2010**
“Awake Craniotomy” (Speaker)
- **Society of Neuroanesthesia of the Philippines Inauguration. Manila, Philippines, September 2010**
“Cerebral Protection” (Speaker)
- **Malaysian Society of Anesthesiologists Annual Meeting. Kuala Lumpur, Malaysia, April 2011**
“Update in Neuroanesthesia” (Speaker)
“Awake Craniotomy for tumor surgery” (Speaker)

MARGARIDO, C

- **8th Annual Mount Sinai Hospital Obstetric Anesthesia Conference and Workshop. Toronto, Ontario, September 2010**
“Spinal Ultrasound” (Ultrasound Workshop)
- **Women’s College Hospital 5th Obstetrical Anesthesia Day. Toronto, Ontario, November 2010**
“The Case of the Woman Who Couldn’t Have a Labor Epidural”
- **Ultrasound Workshop. 43rd Society for Obstetric Anesthesia and Perinatology (SOAP). Las Vegas, Nevada, April 2011**
“Transversus Abdominis Plane (TAP) block”
- **Canadian Anesthesiologists’ Society. Toronto, Ontario, June 2011**
“The Case of the Woman Who Couldn’t Have a Labor Epidural: labour analgesia in a patient with neurologic abnormalities”

MAZER, D

- **12th International Congress of Cardiothoracic and Vascular Anesthesia. Beijing, China, September 2010**
“Heart oxygen balance”
“Antifibrinolytics in cardiac surgery”
- **Annual ASA Meeting. San Diego, California. October 2010**
“Update on anti-platelet agents.” (Panel)
“Neurologic issues in cardiac surgery.” (Panel)
“Strategies for blood conservation in cardiac surgery” (Refresher course lecture)
- **Canadian Society for Transfusion Medicine Conference. Toronto, Ontario, May 2011**
“Update on blood conservation in cardiac surgery”

MCCLUSKEY, S

- **Anesthesia Practice. Toronto, Ontario, November 2010.**
“Blood Conservation. What is it? Why do it?”

MCRAE, K

- **Keio University Hospital. Tokyo, Japan, August 2010.**
“Anesthesia for Lung Transplantation” (Invited Lecture)
- **Department of Thoracic Surgery, Kyoto University. Kyoto, Japan, August 2010**
“Anesthesia for Surgical Procedures for the Treatment of Pulmonary Hypertension” Pulmonary Hypertension Seminar

MCCARTNEY, C

- **Lecture to residents at Trio restaurant. Toronto, Ontario, August 2010**
“Ultrasound for regional anesthesia: past, present and future” (Lecture)
- **Department of Human Biology, University of Toronto. Toronto, Ontario, October 2010**
“Biology of Pain.” Undergraduate Lecture (Lecture)

- **Association of Cardiothoracic Anaesthetists. Brighton, United Kingdom, November 2010**
 “Ultrasound for thoracic epidural and paravertebral block” (Lecture)
 “Ultrasound for thoracic epidural and paravertebral block” (Workshop)
- **Department of Anesthesia, University of Toronto. Toronto, Ontario, January 2011**
 Professors Rounds: “Ultrasound for Regional Anesthesia; Past, Present and Future” (Lecture)
- **NYSORA World Anesthesia Congress. Rome, Italy, April 2011**
 “Ultrasound for regional anesthesia: Past, Present and Future” (Invited Lecture)
 “Why climb: what are the risks and how can they be avoided?” (Lecture)
 “Why climb: my favorite destinations?” (Lecture)
 “Ultrasound for paravertebral block” (Workshop)
 “Ultrasound for brachial plexus block” (Workshop)
- **American Society of Regional Anesthesia Spring Meeting. Las Vegas, Arizona, May 2011**
 “Upper Extremity Comprehensive Workshop”(Workshop)
 “Basic Anatomy for Ultrasound” (Lecture)
 “Ultrasound Imaging in Challenging Cases” (Primarily High BMI) (Workshop)
- **52nd Annual McGill Anesthesia Update. Montreal, Quebec, May 2011**
 “Multimodal analgesia in 2011: what is the current status?” (Lecture)
 “Ultrasound and outcome” (Lecture)

MC GEE, I

- **Department of Anesthesia, University of Toronto, Faculty Development Day, Toronto, Ontario, November 2010**
 “Teaching tips from the experts” – (interactive workshop)

MCHARDY, P

- **Anaesthetic Practice. Toronto, Ontario, November 2010**
 “Ultrasonography” (Workshop)
- **Canadian Anesthesiologists’ Society 67th Annual meeting. Toronto, Ontario, June 2011**
 “Basic Lower Limb Ultrasonography”(Workshop)

MEINER, M

- **Department of Anesthesia, First Peking University Hospital. Departmental Rounds. Beijing, China. August 2010**
 “Introduction to 3D TEE” (Visiting Professor)
- **Chinese Society of Anesthesia National Meeting. Chengdu, China. August 2010**
 “Imaging in Anesthesia. Clinical application of 3D TEE”
- **Department of Anesthesia, Chengdu University, Departmental Rounds. Chengdu, China. August 2010**
 “Anesthesia for transcatheter aortic valve implantation” (Visiting Professor)
- **Department of Anesthesia, Zhengzhou University, Grand**

Rounds. Zhenzhou, China, August 2010

- “Clinical application of 3D TEE” (Visiting Professor)
- **Department of Anesthesia, Washington University. Combined Grand Rounds, Saint Louis, Missouri, October 2010**
 “Integrate 3D TEE into your practice. Residents lunch and learn. Anesthesia for percutaneous cardiac interventions” (Visiting Professor)
- **8th Annual Toronto Perioperative Transesophageal Echocardiography Symposium. Toronto, Ontario, November 2010**
 “TEE for pulmonary thromboendarterectomy”
 “FOCUS Transthoracic Echocardiography” (Workshop)
- **Departmental Rounds, Toronto General Hospital, Department of Anesthesia and Pain Management. Toronto, Ontario, February 2011**
 “Bedside PICC line insertion program”
- **University Health Network Acute Resuscitation Committee 2011 Symposium. Toronto, Ontario, March 2011**
 “2D Echo in Code Blues workshop”
- **Department of Anesthesia, Università di Padova, Azienda Ospedaliera di Padova, Padova, Italy. May 2011**
 Departmental Rounds: “FOCUS Transthoracic Echocardiography in the perioperative setting” FOCUS TTE workshop (Visiting Professor)
- **Kuwait Cancer Care center. Department of Anesthesia, Kuwait City, Kuwait. May 2011**
 Grand Round: “Ultrasound guided vascular access” (Visiting Professor)
 Grand Round: “FOCUS TTE in the perioperative setting” (Visiting Professor)
- **Kuwait Cancer Care Center. Department of Anesthesia, hands-on workshop. Kuwait City, Kuwait May 2011**
 FOCUS TTE in the ICU (Visiting Professor)
- **Department of Anesthesia, Université de Montreal, Institut de Cardiologie de Montreal, Montreal, Quebec, June , 2011**
 Combined Grand Rounds: “3D TEE for TAVi and HOCM” (Visiting Professor)
- **Canadian Anesthesiologists’ Society 67th Annual Meeting. Toronto, Ontario. June 2011**
 “Interesting TEE Cases”
 Surgical Airway: “Enhancing your skills of cricothyroidotomy from mannequin to hybrid pig trachea - high fidelity patient simulator to human cadavers”

MINKOVICH, L

- **The American Society of Anesthesiologists Annular Meeting. San Diego, California, October 2010**
 Workshop of Basic Adult Fiberoptic Laryngoscopy (Supervisor-presenter)
- **Grand Anesthesia Round, Toronto General Hospital. Toronto, Ontario, December 2010**
 “From Arterial waveform to Cardiac Output.” Review of clinically available less invasive monitors of cardiac output (Speaker)

- **Anaesthesia and Critical Care Symposium. Killarney, Ireland, September 2010**
 “Obstetric Teams and the Anesthesiologist: A Study in Progress”
 “Perceptions and Misperceptions of the L&D Quality and Safety”
- **2010 Royal College Simulation Summit. Toronto, Ontario, September 2010**
 “Psychometrics of a behavioural marking system for obstetrical teams”
 “Simulation Use to Establish Outcome Measures for Critical Event Management by Obstetrical Teams”
 “Faculty Development for Simulation for clinical teaching and learning”
- **Qualitative Health Research Conference. Vancouver, British Columbia, October 2010**
 “Perceptions and Misperceptions of the L&D Quality and Safety” (Poster Presentation)
- **American Society of Anesthesiologists’ Annual Meeting. San Diego, California, October 2010**
 “The effect of high-fidelity simulation debriefing on the non-technical skills of practicing anesthesiologists”
 “Simulation Use to Establish Outcome Measures for Critical Event Management by Obstetrical Teams”
- **27th International Conference of the International Society for Quality in Health Care. Paris, France, October 2010**
 “Effect of team training on management of obstetrical emergencies”
- **Halifax 10: Canadian Healthcare Safety Symposium. Halifax, Nova Scotia, October 2010**
 “Psychometrics of a behavioural marking system for obstetrical teams” (Poster Presentation)
- **Wilson Centre Research Day. Toronto, Ontario, October 2010**
 “Perceptions and Misperceptions of the L&D Quality and Safety”
 “Faculty Development for Simulation for clinical teaching and learning”
- **Ontario’s Inaugural Innovation Fund Showcase Event. Toronto, Ontario, November 2010**
 “Patient Safety: Introduction of the Surgical Safety Checklist and Patient Outcome Assessment in an Academic Ambulatory Hospital” *(Study chosen as one of the top 60 AFP funded projects in Ontario)
- **64th Postgraduate Assembly, New York State Society of Anesthesiologists. New York, USA. December 2010**
 “Perceptions and Misperceptions of the L&D Quality and Safety”
- **International Meeting on Simulation in Healthcare. New Orleans, Louisiana, January 2011**
 “Effect of team training on management of obstetrical emergencies”
 *Third Place Prize for Best Poster in Clinical Outcomes Category

“Simulation Use to Establish Outcome Measures for Critical Event Management by Obstetrical Teams”
 *First Place Prize for Best Poster in Clinical Outcomes Category
 “Psychometrics of a behavioural marking system for obstetrical teams”

- **IPE Ontario Conference. Toronto, Ontario. January 2011**
 “Obstetric Teams and the Anesthesiologist: A Study in Progress”
- **Sunnybrook Health Sciences Centre, Department of Anesthesia, Research Rounds. Toronto, Ontario, April 2011**
 “Using Situational Awareness Global Assessment Technique (SAGAT) for Interdisciplinary Obstetrical Team Training using High-Fidelity Simulation”
- **Social Science Perspectives on Health Professions Education Symposium. Toronto, Ontario, May 2011**
 “Obstetric Teams and the Anaesthesiologist – Examining the Role of Boundaries”
- **2011 Canadian Conference on Medical Education. Toronto, Ontario, May 2011**
 “Obstetric Teams and the Anesthetist: Key Findings from a Qualitative Study” (Oral Presentation)
- **16th Congress of the International Confederation for Plastic Reconstructive and Aesthetic Surgery. Vancouver, British Columbia, May 2011**
 “Processes of Care in Autogenous Breast Reconstruction with Pedicled TRAM Flaps: Expediting Postoperative Discharge in an Ambulatory Setting” (Oral Presentation)
- **Canadian Anesthesiologists’ Society 67th Annual Meeting. Toronto, Ontario, June 2011**
 “OR efficiency following implementation of the Safety Checklist” (Poster Presentation)
 “Patient Safety Symposium: We Know What We Want, But How Do We Get It? Navigating the Difficult Seas” (Moderator)

MORNINGSTAR, B

- **General Surgical Grand Rounds, Sunnybrook Health Sciences Centre, Toronto, Ontario. July 2010**
 “Perioperative fluid management”
- **Anesthesia Grand Rounds, Credit Valley Hospital. Mississauga, Ontario. September 2010**
 “Perioperative fluid management”
- **Surgical Grand Rounds, Sunnybrook Health Sciences Centre. Toronto, Ontario. November 2010**
 “Perioperative fluid management for surgeons”
- **Departments of Anesthesia and Surgery, Rouge Valley Health System. Toronto, Ontario. December 2011**
 “Perioperative fluid management”
- **Combined Anesthesia and Surgical Grand Rounds, North York General Hospital. Ontario, January 2011**
 “Perioperative fluid management”
- **Grand Rounds, Department of Gynecological Oncology, Sunnybrook Health Sciences Centre. Toronto, Ontario, April 2011**
 “Fluid management for gynecological surgeons”

- **Departments of Anesthesia and Surgery, Southlake Regional Health Centre. Newmarket, Ontario. April 2011**
“Perioperative fluid management”
- **Department of Anesthesia, Royal Victoria Hospital. Barrie, Ontario. April 2011**
“Perioperative fluid management”
- **Oshawa Lakeridge Department of Anesthesia. Whitby, Ontario, May 2011**
“Perioperative fluid management: Stop drowning your patients”

MURPHY P

- **XXII International Congress of the Transplantation Society. Vancouver, British Columbia. August 2010**
“Perioperative CVICU Management in the Heart Transplant Recipient” (Invited Lecture)
- **Making Your Mark National Review Course for Anesthesia. February 2011**
“Thoracic Anesthesia” (Invited Lecture)
- **SCA Annual Update in Cardiopulmonary Bypass. Whistler, British Columbia. March 2011**
“Assessing Right Ventricular Function for Successful Separation from CPB” (Invited Lectures)
“Prothrombotic Agents i.e. Octoplex, rFVIIA” (Invited Lectures)

NIAZI, A

- **Toronto Western Hospital. Toronto, Ontario, November 2010**
“Introductory Ultrasound-Guided Regional Anesthesia Workshop” (Workshop Leader)
- **Toronto General Hospital. Toronto, Ontario, November 2010**
“Anesthesia Assistant Professional Development Day, Ultrasound” (Workshop Leader)
- **Toronto Western Hospital. Toronto, Ontario, February 2011**
“Introductory Ultrasound-Guided Regional Anesthesia Workshop” (Workshop Leader)
- **Canadian Anesthesiologists’ Society 67th Annual Meeting. Toronto, Ontario, June 2011**
“Ultrasound-guided regional anesthesia – advanced – Upper Limb” (Workshop Leader)

ORSER, B

- **American Society of Anesthesiologists. San Diego, California, October 2010**
“Memory to Molecules to Memory: How do Amnestic Drugs Work? Hippocampal-Based Amnesia”
- **Department of Critical Care Rounds, University of Toronto. Toronto, Ontario, January 2011**
“Memory loss in surgical patients: The good, the bad and the ugly”
- **MarS Innovation. Toronto, Ontario, February 2011**
“The role of GABA-A receptors in health and disease”
- **Department of Anesthesia, University of Toronto. Toronto, Ontario, February 2011**
“Molecules, MAC and Memory” (Professor’s Rounds)

- **Baxter Pharmaceutical. New Jersey, New York, March 2011**
“Unwanted Awareness in Anesthesia”
“Update on Potential Neurotoxicity of Inhalational Anesthetics”
- **Department of Anesthesia, Michigan University. Michigan, May 2011**
“Molecules and Memory”
“Residents Seminar”
- **IARS meeting. Vancouver, British Columbia, May 2011**
“Intraoperative Awareness and Depth of Anesthesia Monitors”
“The Impact of the Frontiers in Anesthesia Award”
- **Washington University. Wisconsin, June 2011**
“Memory blockade and anesthetics”
- **Royal College of Physicians and Surgeons Lecture, Canadian Anesthesiologists’ Society. Toronto, Ontario, June 2011**
“The Science of Anesthesia: Where are we now?”

PENG, P

- **Satellite Symposium of the 13th World Congress on Pain. Montreal, Quebec, August 2010**
“Suprascapular Nerve, Piriformis Muscle/Pudendal Nerve. Ultrasound for Pain Medicine Workshop” (Workshop Leader)
“Piriformis muscle/Pudendal Nerve. Ultrasound for Pain Medicine Workshop” (Speaker)
- **13th World Congress of Pain. Montreal, Quebec, August 2010**
Round table discussion. “Education Special Interest Group meeting of International Association Study of Pain Chapter Pain Society” (Co-Chair)
- **The Cleveland Clinic, American Society of Regional Anesthesia. Cleveland, Ohio, September 2010**
“Excellence in Pain Management Workshop-Ultrasound Techniques” (Workshop Leader)
- **CPM Annual Meeting. Toronto, Ontario, September 23, 2010**
“Ultrasound for Pain Medicine” (Lecture and Workshop)
- **VIII Symposium on Regional Anesthesia and Pain Medicine. Santiago, Chile, September - October 2010**
“Chronic Post-Surgical Pain” (Speaker)
“Ultrasound Guided blocks for Pain Management” (Speaker)
“Lumbar Spine US scan and Facet Block” (Workshop Leader)
“Update on Pharmacological Management on Chronic Pain” (Speaker)
“Blocks for Chronic Pain” (Workshop)
- **Cadaver workshop. San Diego, California. American Society of Anesthesiologist, October 2010**
“Sympathetic nervous system block. Fluoroscopic and Ultrasound” (Workshop Leader)
“Joint injection. Fluoroscopic and Ultrasound” (Workshop Leader)
- **Society for Regional Anesthesia and Pain Medicine. Phoenix, Arizona, November 2010**

- “Basic anatomy of spine using ultrasound” (live model and cadaver). (Workshop Leader)
 “SI Joint, Piriformis and S1 nerve root injection. Ultrasound vs. Fluoroscopy”
 “Cervical spine sonoanatomy and stellate ganglion block” (Workshop)
 “Lumbar spine sonoanatomy and injection techniques” (Workshop Leader)
- **American Society for Regional Anesthesia and Pain Medicine. Phoenix, Arizona, November 2010**
 “Plenary lecture. Imaging for Pain Medicine- Stellate ganglion Block”
 - **University of Toronto. Toronto, Ontario, November 2010**
 “Management of methadone patients in APS. Anesthesia Practice” (Speaker)
 - **Hong Kong Pain Society. Hong Kong, China, December 2010**
 “Lessons learn from the acute pain studies -Why it not always works in real life” (Speaker)
 - **First Multidisciplinary Musculoskeletal Ultrasound Symposium on Pain Medicine. Hong Kong, China, December 2010**
 “Ultrasound for Pain Medicine” (Speaker)
 - **Ultrasound for Pain Medicine. First Multidisciplinary Musculoskeletal Ultrasound Symposium on Pain Medicine. Hong Kong, China, December 2010**
 “Lower limb and trunk block with ultrasound” (Workshop Leader)
 - **Wasser Pain Management Clinic. Toronto, Ontario, December 2010**
 Grand Round. “Tai Chi and Chronic Pain” (Speaker)
 - **Mount Sinai Hospital. Toronto, Ontario, February 2011**
 Lunch and Learn Round. “Tai Chi and Chronic Health Issue. Diversity and Human Right Committee celebration of Chinese New Year” (Speaker)
 - **Canadian Pain Society. Ottawa, Ontario, February 2011**
 “Neurophysiology of Pain” Pain Refresher Course (Speaker)
 “Failed Back Surgery Syndrome” Pain Refresher Course (Interdisciplinary Expert Panel)
 - **Society for Pain Practice Management. Las Vegas, Nevada, March 2011**
 “Cervical Facet Medial Branch block-ultrasound guided injection” (Lecture and Workshop)
 - **UHN Department of Anesthesia, Toronto Western Hospital. Toronto, Ontario, March 2011**
 “ABC’s of Ultrasound Scanning. Ultrasound for Pain Medicine Workshop” (Speaker)
 - **Ultrasound for Pain Medicine Workshop, UHN Department of Anesthesia, Toronto Western Hospital. Toronto, Ontario, March 2011**
 “Cervical sympathetic block, ilioinguinal/iliohypogastric nerve” (Speaker)
 - **Ultrasound for Pain Medicine Workshop, UHN Department of Anesthesia, Toronto Western Hospital. Toronto, Ontario, March 2011**
 “Lumbar facet nerve, caudal canal” (Speaker)
 - **Ultrasound for Pain Medicine Workshop, UHN Department of Anesthesia, Toronto Western Hospital. Toronto, Ontario, March 2011**
 “Piriformis, suprascapular Nerve, intercostals Nerve injection” (Speaker)
 - **Ultrasound for Pain Medicine Workshop, UHN Department of Anesthesia, Toronto Western Hospital. Toronto, Ontario, March 2011**
 “Lumbar facet and caudal canal injection” (Workshop Co-Leader)
 - **Canadian Pain Society, Hamilton, Ontario April 2011**
 “Ultrasound-guided injection for the lower trunk” Canadian Pain Interventional Course (Hands-on workshop)
 “Ultrasound-guided injection for the lower trunk” Canadian Pain Interventional Course, Refresher Course Series
 - **Department of Anesthesia, Queen’s University. Kingston, Ontario, April 2011**
 Knowledge translation from study to practice. Lessons learnt from acute pain studies. Annual Research day. (Keynote Lecture)
 - **8th Annual International Symposium ISURA 2011. Bern, Switzerland, April 2011**
 “Piriformis and pudendal nerve injection” (Lecture and workshop)
 - **5th International Cadaver workshop ISURA 2011. Innsbruck, Austria April 2011**
 Cadaver workshop (Workshop Leader)
 - **American Society of Regional Anesthesia and Pain Medicine. Boston, Massachusetts, June 2011**
 “Ultrasound-guided Lumbar spine facet injection” Excellence in Pain Medicine Workshop. (Lecture and workshop)
 - **Ultrasound in Pain Management- Official Satellite Symposium for Combined British Pain Society and Canadian Pain Society. Edinburgh, United Kingdom, June 2011**
 “Piriformis and pudendal injection” Lectures and workshop
 - **British Pain and Canadian Pain Society. Edinburgh, United Kingdom, June 2011**
 “The three-dimension of Pain Education” (Speaker)
 “Ultrasound in Pain Medicine- Peripheral Structures” (Speaker)
- PERLAS, A**
- **NYSORA Regional Anesthesia Workshop. New York, USA, September 2010**
 “Basics of Ultrasound Imaging” (Lecture)
 “Brachial plexus blocks above the clavicle” (Lecture)
 - **38th Chilean National Congress of Anesthesiology. Puerto Varas, Chile, October 2010**
 “Evidence for the use of brachial plexus anesthesia in shoulder surgery” (Lecture)

“Regional anesthesia for total knee replacement”
(Lecture)

“Contributions of regional anesthesia to orthopedic surgery in the past 10 years” (Lecture)

“Ultrasound guided brachial plexus blocks” (Workshop)

- **2010 American Society of Anesthesiology Annual Meeting. San Diego, California, October 2010**
“Ultrasound guided regional anesthesia and clinical skills workshop” (Workshop instructor)
- **Toronto Western Hospital. Toronto, Ontario, December 2010**
“All advanced blocks. Advanced Ultrasound-guided Regional Anesthesia Workshop” (Workshop Instructor)
“Ultrasound for neuraxial anesthesia. Advanced Ultrasound-guided Regional Anesthesia Workshop” (Lecture)
- **Toronto Western Hospital. Toronto, Ontario, March 2011**
“All advanced blocks. Advanced Ultrasound-guided Regional Anesthesia Workshop” (Workshop Instructor)
“Ultrasound for neuraxial anesthesia. Advanced Ultrasound-guided Regional Anesthesia Workshop” (Lecture)
- **29th Colombian National Anesthesia Congress. Medellin, Colombia, March 2011**
“Evidence for ultrasound-guided neuraxial blocks” (Lecture)
“How to perform an ultrasound examination of the lumbar spine” (Lecture)
“Anatomy and hands-on workshop: Ultrasound of the lumbar spine” (Workshop)
- **17th Uruguayan National Anesthesia Congress. Montevideo, Uruguay, April 2011**
“Ultrasound-guided brachial plexus blocks” (Lecture)
“TAP locks. Techniques and effectiveness” (Lecture)
“Regional anesthesia and nerve injury” (Lecture)
“Learning regional anesthesia at the University of Toronto” (Lecture)
“Ultrasound of the neuraxis” (Workshop)
- **36th Annual Regional Anesthesia Meeting and Workshops, American Society of Regional Anesthesia and Pain Medicine, Las Vegas, Nevada, May 2011**
“Educating the Next Generation of Regional Anesthesiologists” (Speaker)
“Basics of Ultrasonographic Guidance - Physics, Knobology and Hand-Eye Coordination Skills” (Workshop Leader)
“Educating Residents and Education Pathways” (Speaker)
“Proximal Sciatic Nerve Blocks” (Workshop Leader)
- **Canadian Anesthesiologists' Society 67th Annual meeting, Toronto, Ontario, June 2011**
“The year in review: top regional anesthesia papers of 2010-2011” (Speaker)

PRABHU, A

- **Anaesthetic Practice 2010, Toronto Anesthesia Symposium. Sutton Place Hotel, Toronto, Ontario, November 2010**
“Blood Conservation: Iron Epo and Autologous Blood

Predonation” (Speaker)

- **Department of Anesthesia, Kasturba Medical College. Mangalore, India, December 2010**
“Awake Craniotomy” Fellows Rounds (Speaker)
- **Toronto Anesthesia Symposium. Toronto, Ontario, April 2011**
“Supra-Glottic Airways (SGA), Intubation through SGA, Airway Catheters” (Workshop Leader)

PRASAD, A

- **Toronto Western Hospital. Toronto, Ontario, November 2010**
“Introductory Ultrasound-Guided Regional Anesthesia Workshop” (Workshop Leader)
- **Toronto Western Hospital. Toronto, Ontario, February 2011**
“Introductory Ultrasound-Guided Regional Anesthesia Workshop” (Workshop Leader)
- **Toronto Anesthesia Symposium. Toronto, Ontario, April 2011**
“Ultrasound of the Airway – Emerging Applications” (Speaker)

PRONOVOST, A

- **Southlake Department of Anesthesia Rounds. Newmarket, Ontario, November 2010**
“Quality in Health Care – an application to community hospitals”
- **Perioperative Research, Education, and Poster Presentation Day (PREPP Day). St. Michael's Hospital, Toronto, Ontario, June 2011**
“Process Improvement in the Pre-Admission Facility: Methodology and Interim Analysis”

RIAZI, S

- **Malignant Hyperthermia Mini conference. Toronto, Ontario, September 2010**
“Update on MH diagnostic tests” (Organizer & Speaker)
- **Toronto Western Hospital. Toronto, Ontario, November 2010**
“Introductory Ultrasound-Guided Regional Anesthesia Workshop” (Workshop Leader)
- **Anesthesia Practice Conference. Toronto, Ontario, November 2010**
“Malignant Hyperthermia Update” (Speaker)
- **Toronto Western Hospital. Toronto, Ontario, February 2011**
“Introductory Ultrasound-Guided Regional Anesthesia Workshop” (Workshop Leader)

SALMAN, A

- **Faculty Development Day, Department of Anesthesia, University of Toronto. Toronto, Ontario, November 2010**
“Integration of Foreign Medical Graduates in Canadian Health system”
- **Ophthalmology Department UHN, Toronto Western Hospital. Toronto, Ontario May 2011.**
“Anesthesia for Ophthalmological surgeries”

SIDDIQUI, N

- **8th Annual Mount Sinai Hospital Obstetric Anesthesia Conference. Toronto, Ontario. September 2010**
 - “Aseptic technique for labor epidurals: current practices in Ontario, the MSH experience, and current recommendations from the American Society of Regional Anesthesia”
 - “Ultrasound for Vascular Access” (Workshop)
- **Anesthesia Practice, University of Toronto, Department of Anesthesia. November 2010**
 - “Ultrasound for peripheral Blocks/ Neuroaxial Blocks and Vascular Access” (Workshop)
- **Tri – Council, surgical services rounds. Department of surgery, University of Toronto, Canada. December 2010**
 - “Parched or drowned. The continuum of peri-operative fluid management..”
- **CME rounds : Department of General Surgery, University of Toronto, Mount Sinai Hospital. Toronto, Ontario, January 2011**
 - “Smoking cessation and Surgical outcomes” (Invited as Content Expert)
- **Department of Anesthesia, University of Toronto. Toronto, Ontario, March 2011**
 - Comprehensive Airway Course: PGY-1 (Session leader)
- **Society of Obstetric Anesthesia and Perinatology Ultrasound Workshop Website, 44th Annual Meeting. April 2011**
 - “Comprehensive Ultrasound workshop” (Session leader)
 - Regional Anesthesia Day: Department of Anesthesia, University of Toronto. Toronto, Ontario, March 2011
 - “Practise of Aseptic technique” (Session Leader)
- **University of Toronto Faculty of Medicine’s 9th Annual Education Achievement celebration. Toronto, Ontario, April 2011**
 - “The Impact of Simulator based Education on the Acquisition of Life Saving Airway Procedure – Role of A Specialized Hybrid - High Fidelity Patient Simulator Model”
- **Canadian Anesthesia Society Meeting. Toronto, Ontario, June 2011**
 - “Surgical Airways: Enhancing Your Skills of Cricothyrotomy From Mannequins to Realistic Hybrid Pig Trachea-High Fidelity Patient Simulator” (Airway workshop - Session leader)

SILVERMAN, G

- **Global Health Education Institute certificate course, Centre for International Health – University of Toronto, September-October, 2010**
 - Perioperative Module (Lecturer/ Co-coordinator)
- **University of Toronto International Health Program, Toronto, Ontario, February 2011**
 - Global Heart Hour (Panelist)
- **CASIEF/Dalhousie. Halifax, Nove Scotia, May 2011**
 - “Anesthesia in Challenging Environments” course (Faculty)

SLINGER, P

- **Department of Anesthesia, Massachusetts General Hospital, Harvard Medical School. Boston, Massachusetts, July 2010 (Visiting Professor)**
- **Hawaii Anesthesiology Update. Maui, Hawaii, August 2010**
 - “Perioperative Assessment of Pulmonary Function; Lung Isolation Techniques and Management of One-lung Ventilation; The Airway: Upper, Lower and Beyond; Perioperative Lung Protection”
- **International Congress of Cardiovascular Anesthesiology. Beijing, China, September 2010**
 - “Perioperative Lung Protection; Management of One-Lung Ventilation”
- **Annual Meeting of the Research Society for Anaesthesia and Clinical Pharmacology. Bangalore, India, October 2010**
 - “Preoperative Assessment of the Patient for Pulmonary Resection; The Anaesthesiologist’s Role in Perioperative Lung Protection”
- **Annual Toronto Perioperative Trans-esophageal Echocardiography Symposium. Toronto, Ontario, November 2010**
 - “TEE Jeopardy”
- **Post Graduate Assembly in Anesthesiology, NYSSA. New York, New York, December 2010**
 - “Anesthesia for the Patient with Co-morbid Lung Disease”
- **Update in Cardiothoracic Anesthesia. Catholic University of Leuven, Belgium, January 2011**
 - “Preoperative Assessment for Pulmonary Resection; Management of One-Lung Ventilation”
- **MD Anderson Cancer Center. University of Texas, Houston, Texas, January 2011**
 - “TEE Assessment of Cardiomyopathies. Intraoperative TEE Workshop”
- **ASEAN Congress of Anesthesiology, Manila, Philippines, February 2011**
 - “Thoracic Epidural Analgesia and Outcome; Recent Advances in Anesthesia for Thoracic Surgery”
- **Lung Center of the Philippines, Manila, Philippines, February 2011**
 - “Anesthesia for Lung Transplantation”
- **Department of Anesthesiology, University of Alabama, Birmingham, Alabama, February 2011 (Visiting Professor)**
- **Annual New York Anesthesiology Review. Orlando, Florida, March 2011**
 - Respiratory Physiology; Lung Isolation; Management of One-lung Anesthesia
- **Toronto Anesthesia Symposium, Toronto, Ontario, April 2011**
 - Lung Isolation Workshop
- **Annual Meeting of the Kentucky State Society of Anesthesiologists, Lexington, Kentucky, April 2011**
 - Advances in lung Isolation for Thoracic Anesthesia; New Insights on One-Lung Ventilation

- **Department of Anesthesiology, University of Kentucky, Lexington, Kentucky, April 2011**
(Visiting Professor)
- **Dannemiller Review Course in Anesthesiology, San Antonio, Texas, April 2011**
“Preoperative Assessment for Pulmonary Resection; Lung Isolation; One-lung Ventilation; Mediastinal Masses and Lower Airway Problems; Post-Thoracotomy Anesthetic Management”
- **Annual Meeting of the IARS, Vancouver, British Columbia, May 2011**
“Perioperative Management for Pulmonary Resection; Management of a Patient with Pulmonary Hypertension for a Wedge Resection”
- **Department of Anesthesiology, University at Buffalo, Buffalo, New York, May 2011.**
(Visiting Professor)
- **Annual meeting of the Society of Cardiovascular Anesthesiologists, Savannah, Georgia, May 2011.**
“Lung Isolation in the Patient with a Difficult Airway; Anesthesia for Airway Surgery and Stents”
- **Canadian Anesthesiologists Society Annual Meeting, Residents Day, Toronto, Ontario, June 2011.**
“Leadership in Anesthesia”
- **Dannemiller Review Course in Anesthesiology, Chicago, Illinois, June 2011.**
“Preoperative Assessment for Pulmonary Resection; Lung Isolation; One-lung Ventilation; Mediastinal”
“Masses and Lower Airway Problems; Post-Thoracotomy Anesthetic Management”
- **Annual meeting, European Association of Cardiothoracic Anaesthesiologists, Vienna, Austria, June 2011.**
“Lung Isolation in the Patient with a Difficult Airway”
- **New Anesthesia Faculty for the Faculty Development series, Toronto, Ontario, January 2011**
“The Learner in Difficulty”
- **Education Scholars Program, The Centre for Faculty Development University of Toronto and St. Michael’s Hospital, Toronto, Ontario February 2011**
“Education Leader Journey” (Panelist)
- **Making a Mark Conference, Toronto, Ontario, February 2011**
Panel Discussion of Sample Oral Exam Questions (Co-Presenter)
Oral Examination Role Play: An Approach To Avoiding Common Difficulties In Oral Examination Performance (Co-Presenter)
- **St. Michael’s Hospital Education Achievement Day, Toronto, Ontario, June 2011**
“Soothsayers, Crystal Balls and Psychic Networks: Forecasting the Future of Medical Education”
- **Faculty of Medicine Strategic Planning Think Tank, Toronto, Ontario, June 2011**
“Building Consensus on the Future” (Co-Facilitator)
Education Working Group (Co-Facilitator)

STEEL A

SPADAFORA, S

- **CaRMS 2010 Annual Visit Toronto, Ontario, June 2010**
The CaRMS Match: Perspective & Insights
- **The International Conference on Residency Education 2010, Ottawa, Ontario, September 2010**
Conference Plenary Panel Session: “Residency Re-Imagined: Trends and innovations in postgraduate medical education” (Panelist)
Closing Session: “Duty hours across borders: Perspectives from around the globe: The Canadian Landscape” (Co Presenter)
“The good, the bad and the ugly of accreditation: Preparing pre-survey questionnaires” (Co-Presenter – Workshop)
- **Faculty Development Day, Department of Anesthesia, University of Toronto, Toronto, Ontario November 2010**
“The Learner in Difficulty” (Co-Presenter)
- **Department of Anesthesia, St. Michael’s Hospital - Grand Rounds, Toronto, Ontario, December 2010**
“What does the future of Postgraduate Medical Education Hold?”
- **Wessex Intensive Care Society Summer Meeting, Portsmouth, United Kingdom, July 2010**
“The aftermath of H1N1 – ventilation strategy in Toronto”
- **University of Toronto City-wide rounds, St. Michael’s Hospital, Toronto, Ontario, August 2010**
“Cardiac output monitoring controversies”
- **University of Toronto, 8th Annual Perioperative TEE Symposium, Toronto, Ontario, November 2010.**
Ultrasound use in the intensive care unit
- **University Health Network, Toronto General Hospital, Toronto, Ontario, December 2010**
“Critical care of the transplant patient Multi-organ Transplant Program”
- **Critical Care Response Team Education Program, Toronto General Hospital, Toronto, Ontario, March 2011**
“Acute lung injury”
- **Society of Cardiovascular Anesthesiologists 16th Annual Update on Cardiopulmonary Bypass Meeting, Whistler, British Columbia March 2011**
“Transfusion related acute lung injury”
- **16th Annual Update on Cardiopulmonary Bypass Meeting, Whistler, British Columbia, March 2011**
“Perioperative shock – controversies in resuscitation. Society of Cardiovascular Anesthesiologists”
- **University Health Network, Toronto General Hospital, Toronto, Ontario, March 2011**
“The rapid response system culture at UHN. Acute Resuscitation” (Symposium)
- **The American Thoracic Society Annual Meeting, Denver, California, May 2011**
“Management of the difficult airway – an anesthesiologist’s perspective”

SZABO, E

- **CPAS - CAPS Combined Meeting 2010. Saskatoon Septmeber 2010**
“NIRS and Clinical Applications” (Invited Lecturer)

TARSHIS, J

- **Faculty Development Day, University of Toronto, Department of Anesthesia. Toronto, Ontario, November 2010**
“Canadian Anaesthesia Simulation Curriculum” (Invited Poster)
- **SIMone course: February 2011**
“The Frame of Simulation: Briefing, Debriefing and Facilitation” (Curriculum design and course faculty)
- **11th Annual Tremblant Perioperative Medicine Conference. Tremblant, Quebec, February 2011**
Moderator large group session: “Should I Cancel This Case?” (Small group session: ACLS Refresher)
- **Sunnybrook Health Sciences Centre, Department of Anesthesia, Research Rounds. Toronto, Ontario, April 2011**
“Using Situational Awareness Global Assessment Technique (SAGAT) for Interdisciplinary Obstetrical Team Training using High-Fidelity Simulation”
- **Simulation and Education, Canadian Anesthesiologists’ Society Annual Meeting. Toronto, Ontario, June 2011**
Chair Poster Session
- **SimOne, Ontario Simulation Network, Summer Simulation Institute. Toronto, Ontario, June 2011**
Debriefing and Facilitation
Tarshis J, Morgan PJ

TENENBEIN, P

- **Toronto Anesthesia Symposium. Toronto, Ontario, April 2011**
“Supra-Glottic Airways (SGA), Intubation through SGA, Airway Catheters” (Workshop Leader)

TUMBER, P

- **Satellite Symposium of the 13th World Congress on Pain. Montreal, Quebec, August 2010**
“Suprascapular Nerve, Piriformis Muscle/Pudendal Nerve. Ultrasound for Pain Medicine Workshop” (Workshop Leader)
- **4th Annual Interventional Pain Management Conference, McMaster University. Hamilton, Ontario. September 2010**
“Piriformis Syndrome” (Workshop Leader)
- **Anesthesia Assistant Professional Development Day, Toronto General Hospital. Toronto, Ontario, November 2010**
“Ultrasound” (Workshop Leader)
- **Anaesthetic Practice 2010, Toronto Anesthesia Symposium, Sutton Place Hotel. Toronto, Ontario, November 2010**
“Update in Acute Pain: New Drugs and Techniques”(Speaker)

- **UHN Pain Resource Nurse Program, Toronto General Hospital. Toronto, Ontario, December 2010**
“Chronic Pain, Addiction and Pain Management” (Speaker)
- **UHN and Mt. Sinai ICU. Toronto Western Hospital. Toronto, Ontario, December 2010**
“ICU, APS and Pain Management, Meet the Professor Rounds” (Speaker)
- **Annual University of Toronto Undergraduate Interfaculty Education in Pain (Interfaculty Pain Curriculum). Toronto, Ontario, March 2011**
“Pharmacotherapy for Pain Management: The Basics” (Keynote Lecture)
- **Ultrasound for Pain Medicine Workshop, UHN Department of Anesthesia, Toronto Western Hospital. Toronto, Ontario, March 2011**
“Piriformis, suprascapular Nerve, intercostal Nerve injection” (Workshop Leader)
- **Canadian Anesthesiologists’ Society 67th Annual meeting. Toronto, Ontario, June 2011**
“Advanced Conscious Sedation Strategies” (Speaker)

VAN DER VYVER, M

- **NYGH Anesthesia Grand Rounds. Toronto, Ontario December 2010**
“How to give effective feedback”
- **Canadian Anesthesiologists’ Society 67th Annual meeting. Toronto, Ontario, June 2011**
“Advanced PowerPoint skills” (Workshop)
“How to optimize learning with audience response systems” (Workshop)

VAN RENSBERG, A

- **American Society of Anesthesiologists: Annual Meeting. San Diego, California, October 2010**
“Basic Fiberoptic intubation Workshop” (Instructor)
- **St. Agnes Hospital. Baltimore, Maryland, April 2011**
“Focused Cardiac Ultrasound” (FOCUS). CAE ICCU Seminar Series (Instructor)
- **Grand Rounds Department of Anesthesia, Toronto East General Hospital. Toronto, Ontario, May 2011**
“Anesthesia for Non transplant surgery in patients with previous Heart and Liver transplantation”
- **Canadian Anesthesiologists Society 67th Annual meeting. Toronto, Ontario, June 2011**
“Non Cardiac surgery for the patient with a Circulatory assist device in place” (Panel - Case Discussion)

VEGAS, A

- **International Congress of Cardiothoracic and Vascular Anesthesia. Beijing, China, September 2010**
“Advances in Heart Transplantation”
“Transesophageal Echocardiography for Transcatheter Aortic Valve Implantation”

- **Toronto General Hospital TEE Symposium. Toronto, Canada, November 2010**
“3D TEE Mitral Valve Anatomy and Pathology”
Workshop Interesting Cases
- **Making a Mark, Senior Revision Course. Toronto, Canada, February 2011**
“Adult Congenital Heart Disease”
- **European Association of Cardiothoracic Anesthesiology Meeting. Vienna, Austria, June 2011**
“The Impact of Virtual Transesophageal Echocardiography an Online Simulation of a TEE Exam on Learning to Navigate the Twenty Standard Views” (Oral Presentation and Winner 1st Prize Best Poster)
- **University Hospital Institute of Anesthesiology. Zurich Switzerland, June 2011**
“Value of 2D and 3D TEE in Non-cardiac” (Visiting Professor)
- **Annual Meeting of the American Society of Anesthesiologists. San Diego, USA, October 2010**
Tranexamic Acid blood concentration during cardiopulmonary bypass surgery.
The initial experience with propofol vs. volatile anesthesia and post-operative sedation for cardiac surgery.
- **Canadian Critical Care Forum. Toronto, Ontario, November 2010**
“Comparison of two different modes of postoperative sedation in coronary bypass patients. A pilot study”
Abstract among six best fellows research projects.
- **Department of Anesthesia and Pain Management, Grand Rounds, Toronto General Hospital, University Health Network. Toronto, Ontario, November 2010**
“Use of solid phase microextraction in clinical medicine”
- **Anesthesia Assistants Professional Development Day. Toronto, Ontario, November 2010**
“Expanding the anesthesia assistant’s role beyond the operating room”
“Volatile-based sedation in the ICU environment”
- **BIT second International Cardiology Conference. Shanghai, China, December 2010**
“Anesthetic Induced Heart Pre- and post-conditioning. Does it Really Work? Next Step in Translational Research” (Invited Speaker)
- **Department of Anesthesia, Jikei University. Tokyo, Japan, December 2010**
“Use of volatile anesthetics in the ICU” (Invited speaker)
- **Department of Anesthesia. Tokyo Women’s Medical University. Tokyo, Japan, December 2010**
“Expanding an anesthesiologist’s role beyond an operating room: use of volatile anesthetics within ICU” (Invited speaker)
- **Department of Anesthesia, Critical Care and Pain Management, Medical Faculty of Oita University. Japan, December 2010**
“Sedation in ICU with the use of volatile anesthetics. Potential benefits” (Invited speaker)
- **Annual Meeting of Society of Critical Care Medicine. San Diego, California, January 2011**
The pilot study on volatile sedation after cardiac surgery
- **Department of Anesthesia and Intensive Care and Department of Cardiac Surgery, Regional Hospital in Kielce. Poland, January 2011**
“Use of volatile anesthetics in ICU. What are the real and potential benefits in cardiac surgical population?” (Invited speaker)
- **Perioperative Anesthesia Clinical Trials Group Meeting. Canmore, Alberta, January 2011**
“Use of volatile anesthesia after cardiac surgery. (1) Comparison with standard propofol anesthesia- an update. (2) An association between inadequate platelet inhibition and incidence of major adverse cardiac events in post-PCI patients undergoing non-cardiac surgery” (Invited speaker)

VENKATRAGHAVAN, L

- **American Society of Anesthesiologists Annual Meeting, San Diego, California, October 2010**
Basic Adult Fiberoptic laryngoscopy (Workshop leader)
- **Toronto Anesthesia Symposium, Sutton Place Hotel. Toronto, Ontario, November 2010**
Toronto Anaesthetic Practice 2010 (Organizer)
- **Toronto Anesthesia Symposium, Toronto. Ontario, April 2011**
Fiberoptic Bronchoscopy (FOB)-Adult and Pediatrics, Airway Topicalization, (Workshop Leader)

VOIGTLAENDER – BOLZ, J

- **New Faculty Rounds. Toronto, Ontario, February 2011**
“About the past, presents and the future” (Presenter)

WASOWICZ M

- **ExTech 2010. Poznan, Poland, September 2010**
“Metabolic profiling in plasma of patients administered with tranexamic acid. The SPME for measurement”
- **Extech Symposium. Poznan, Poland, September 2010**
“Use of Solid Phase Microextraction in clinical medicine” (Invited Speaker)
- **Ontario Anesthesia Meeting. Toronto, Ontario, October 2010**
“Expanding anesthesiologist’s role beyond an operating room; use of volatile anesthetics in ICU” (Invited Speaker)
- **Department of Anesthesia, Mount Sinai Hospital. Toronto, Ontario, October 2010.**
“Research in Progress. Platelet function in post-PCI patients undergoing non-cardiac surgery” (Invited Speaker)
- **Department of Anesthesia and Pain Management, Grand Rounds, Toronto General Hospital, University Health Network. Toronto, Ontario, October 2010**
“Anaconda study update. Testing of platelet function in post-PCI patients undergoing non-cardiac surgery”

- **Department of Anesthesia and Pain Management, Grand Rounds, Toronto General Hospital, University Health Network. Toronto, Ontario, March 2011**
“Pharmacokinetics of tranexamic acid in patients with varying renal function undergoing cardiac surgery with the use of cardiopulmonary bypass”
- **Department of Anesthesia, South Lake Medical Centre. Newmarket, Ontario, March 2011**
“Expanding an anesthesiologist role beyond an operating room. Use of volatile anesthetics for sedation in the ICU” (Invited Speaker)
- **Department of Anesthesia, Toronto Western Hospital. Toronto, Ontario, April 2011**
“What is the mechanism of major adverse cardiac events in post-PCI patients undergoing non-cardiac surgery? The role of platelet testing in peri-operative medicine” (Invited Speaker)
- **Society of Cardiovascular Anesthesiologists, 33rd Annual Meeting. Savannah, USA, May 2011**
Combined volatile induced pre- and post-conditioning in cardiac surgical patients. A pilot clinical study
- **Perioperative Anesthesia Clinical Trials Group Meeting. Toronto, Ontario, June 2011**
“Use of volatile anesthesia after cardiac surgery. (1) Comparison with standard propofol anesthesia- a final report. (2) An association between inadequate platelet inhibition and incidence of major adverse cardiac events in post-PCI patients undergoing non-cardiac surgery- an update” (Invited speaker)
- **University of Buffalo, New York State University. New York, New York, June 2011**
“Discussion on technical and clinical aspects of volatile-based ICU sedation” (Visiting Professor)

WELLS, G

- **El Bosque Sport Medicine Residency Program, Bosque University. Bogota, Columbia, October 2010.**
Paediatric Exercise Medicine (Keynote presentation)
- **Sport Medicine in Golf Conference, Bosque University. Bogota Columbia, October 2010**
“Physiological correlates of golf performance” (Keynote Presentation)
“Long term athlete development for Golf” (Podium Presentation)
“Physical training for Golf & integration into the year training plan”(Podium Presentation)
- **The Hospital for Sick Children Healthy Weight Rounds. Toronto, Ontario, September 2010**
“Mitochondrial oxidative metabolism: The exercise physiology perspective” (Keynote presentation).
- **University of British Columbia Distinguished Speaker Series. Kelowna, British Columbia, October 2010**
“Superbodies: Living a World-Class Life” (Keynote presentation).

- **Canadian Association of Chain Drug Stores Annual Executive Exchange Conference. Vancouver, British Columbia, October 2010**
“The Science of Human Performance” (Keynote presentation)
- **TEDxIBYork Conference. Toronto, Ontario, November 2010**
“Living an Olympic Life”
- **Impact National Conference 2010. Toronto, Ontario, November 2010**
“Human Performance in Sport & Business” (Podium presentation)
- **2010 SPoRT INnovation (SPIN) Summit. Ottawa, Canada, November 2010**
“Acute Preparation Strategies for Competition Performance” (Keynote presentation)
- **Ontario Physiotherapy Association Annual Conference. Ontario, April 2011**
“Leadership and High Performance in Medical Support Teams” (Keynote presentation)
- **Alberta Association of Registered Occupational Therapists. Banff, Alberta, May 2011**
“The Science of Human Performance for Corporate Health & Medical Professionals”
- **Association of Registrars of Universities & Colleges of Canada. Saskatoon, Saskatchewan, June 2011**
“Experiential Learning” (Keynote presentation)

WIJEYSUNDERA, D

- **Anesthesia Rounds, Southlake Regional Health Centre. Newmarket, Ontario, January 2011**
“Preoperative cardiac testing for major noncardiac surgery – which test makes sense?”
- **Research Rounds, Department of Anesthesia, Sunnybrook Health Sciences Centre. Toronto, Ontario, February 2011**
“Better estimating physical fitness for surgery: A proposal for the METS study”
- **Grand Rounds, Department of Anesthesia and Pain Management, Toronto Western Hospital. Toronto, Ontario, February 2011**
“Preoperative cardiac risk assessment for noncardiac surgery: Integrating clinical assessment and testing”
- **University of Miami, Cleveland Clinic, and Society for Perioperative Assessment and Quality Improvement. Miami, Florida, March 2011**
“Preoperative medical consultation: Do our patients still need it? Perioperative Medicine Summit 2011: Using Evidence to Improve Quality, Safety and Patient Outcomes”
- **Grand Rounds, Department of Anesthesia, St. Michael’s Hospital. Toronto, Ontario, April 2011**
“Preoperative cardiac risk assessment for noncardiac surgery: Integrating clinical assessment and testing”
- **Annual Meeting and Workshops of the Society of Cardiovascular Anesthesiologists. Savannah, Georgia, May 2011**
“Acute kidney injury: Does anything work?”

WONG, D

- **University of Chicago Medical Center. Chicago, Illinois, September 2010**
“What’s new in difficult airway management?” (Speaker)
- **Society for Airway Management Annual Scientific Meeting. Chicago, Illinois, September 2010**
“Lung Isolation workshop” (Speaker)
- **American Society of Anesthesiologists Annual Meeting. San Diego, California, October 2010**
“Basic Adult Fiberoptic laryngoscopy” (Speaker)
- **Luzhou People’s Hospital. Luzhou, China, October 2010**
“ICU ventilatory management” (Speaker)
“Difficult airway management” (Speaker)
“Cardiac arrhythmia: diagnosis and management” (Speaker)
- **Department of Anaesthesiology, United Christian Hospital. Hong Kong, November 2010**
“What’s new in difficult airway management?” (Speaker)
“Tracheal intubation through a LMA-what works well?” (Speaker)
- **Toronto Anesthesia Symposium. Toronto, Ontario, April 2011**
“Tracheal Intubation via Supraglottic Airways” (Speaker)
- **NWAC World Anesthesia Congress 2011. Rome, Italy, April 2011**
“Intubation through laryngeal mask airway: use of Aintree catheter” (Speaker)
“Cannot intubate, cannot ventilate: are you ready for emergency tracheostomy?” (Speaker)
“Tracheal intubation through a supraglottic airway: what’s the best way?” (Speaker)
- **SAMBA Annual meeting. San Antonio, Texas, May 2011**
“Difficult Airway Management” (Speaker)
“Intubation via a LMA made easy” (Speaker)

WONG, G

- **Queen’s University. Kingston, Ontario, October 2010**
“Communication and The Surgical Neonate” (Visiting Professor - Invited Lecturer)
“Pearls and Pitfalls in Pediatric Anesthesia” (Visiting Professor -Invited Lecturer)

WONG, J

- **Department of Anesthesia, University of Manitoba. Winnipeg, Manitoba, February 2011**
“Grand Rounds, Postoperative Recovery after Ambulatory Surgery and Anesthesia” (Speaker)
- **Department of Anesthesia, University of Manitoba. Winnipeg, Manitoba, February 2011**
“Predictors of Acute Postoperative Pain” (Visiting Professor Rounds)
- **Society of Ambulatory Anesthesia Annual Meeting. San Antonio, Texas, United States, May 2011**
Regional Anesthesia for the Ambulatory Practitioner (Moderator)

Difficult Airways Workshop (Co-Chair)

- **Canadian Anesthesiologists’ Society Annual Meeting. Toronto, Ontario, Canada, June 2011**
Co-chair, Ambulatory and Airway Poster Session, Moderator, Case Discussion

WONG, S

- **Canadian Anesthesiology Society. Toronto, Ontario June 2011**
“Interesting TEE Cases”

YEE, D

- **Making a Mark (national resident review course). Scarborough, Ontario, February 2011**
“Complications of Anesthesia”

YOU-TEN, E

- **Faculty Development Day, Department of Anesthesia, University of Toronto. Toronto, Ontario, November 2011**
“Technical Skills Improve Nontechnical Skills in Anesthesia Crisis Management” (Invited Speaker)
- **The Toronto Anesthesia Symposium - Perfecting Your Practice. Toronto, Ontario, April 2011**
“Management of Post Thyroidectomy Stridor” (Invited Speaker)
- **Canadian Anesthesiologists’ Society 67th Annual meeting. Toronto, Ontario, June 2011**
“Surgical Airways: Enhancing Your Skills of Cricothyrotomy From Mannequins to Hybrid Pig Trachea-High Fidelity Patient Simulator to Human Cadavers” (Workshop Leader)

ZHANG, H

- **The Annual Meeting of Taiwan Society of Critical Care Medicine. Taipei, Taiwan, October 2010**
“Recent advances in acute lung injury and mechanical ventilation”
- **Department of Intensive Care Medicine and Anesthesiology, Policlinico Universitario A. Gemelli, Università Cattolica del Sacro Cuore. Rome, Italy, February 2011**
“ARDS in the ICU” (Visiting Professorship Lecture)
- **Institute of Medical Science, University of Toronto. Toronto, Ontario, Canada, February 2011**
“Animal models of acute lung injury” (Graduate Lecture)
- **Lawson Health Research Institute, University of Western Ontario. London, Ontario, Canada, February 2011**
“New frontiers in lung injury” (Visiting Professorship Lecture)
- **Department of Critical Care Medicine, Southeast University Zhongda Hospital. Nanjing, China, April 2011**
“Experimental research design” (Visiting Professorship Lecture)

PEER-REVIEWED GRANTS

ABRAHAMSON, S

2009-2011

Department of Anesthesia Education and CPA Merit Awards – University of Toronto

Title: Evaluation of a new media-rich simulation based virtual technology for learning in critical care

Amount: \$20,000

Principle Investigator

ANGLE, P

2009-2011

Department of Anesthesia Research Merit Awards – University of Toronto

Title: Multi-centered RCT examining the effect of small vs. large Tuohy-type epidural needles on PDPH

Amount: \$40,000

Principle Investigator

BAKER, AJ

2007-2010

Department of National Defence: Defence Research and Development Canada

Title: Net -RandD: CNS Blast Injury

Amount: \$358,170.63,

Principle Investigator

2009-2011

Department of Anesthesia Research Merit Awards – University of Toronto

Title: Analysis of shockwave blast parameters on cytoskeletal alterations and neuronal function

Amount: \$40,000

Principle Investigator

2010-2016

Heart and Stroke Foundation of Canada,

Title: From bench to bedside to curbside

Amount: \$1,500,000

Co-investigator

2010-2016

National Institutes of Health,

Title: From bench to bedside to curbside

Amount: \$USD 648,000

Co-investigator

2009-2016

Canadian Institutes of Health Research,

Title: From bench to bedside to curbside,

Amount: \$ 1,057,000

Co- Investigator

2011-2016

National Institutes of Health,

Title: Resuscitation Outcomes Consortium- Core Training Grant

Amount: \$ 335,000,

Co-investigator

BALKI, M

2011

Department of Anesthesia UHN-MSH, University of Toronto.

Title: Myometrial contractility studies in laboratory

Amount: \$10,000

Principal Investigator

2011-2013

Mount Sinai Hospital Foundation, University of Toronto.

Title: Optimizing human myometrial contractions using a combination of uterotonic agents

Amount: \$40,000

Principal Investigator

2011-2013

Inaugural SOAP/ Gertie Marx Research & Education Grant.

Title: Optimizing contractility in human myometrium using a combination of uterotonic agents: An

in-vitro approach to improving treatment options for primary post-partum hemorrhage

Amount: US \$50,000 (25,000/annum)

Principal Investigator

2011-2013

Department of Obstetrics and Gynecology, Mount Sinai Hospital, University of Toronto.

Title: Optimizing human myometrial contractions using a combination of uterotonic agents

Funding Amount: \$5,000

Principal Investigator

Co-Investigators: Kingdom J, Carvalho J

BEATTIE, WS

2009-2011

MSH-UHN Academic Medical Organization Innovation Funds

Title: Creating a comprehensive electronic perioperative information management system by extending the scope of innovative anesthesia preoperative assessment instrument.

Amount: \$196,020

Principal Investigator

2009-2011

Department of Anesthesia Research Merit Awards – University of Toronto

Title: Perioperative outcomes research program

Amount: \$60,000

Principle Investigator

2009-2011

Department of Anesthesia Education and CPA Merit Awards – University of Toronto

Title: Perioperative clinical anesthesia information system (CAIS)

Amount: \$20,000

Principle Investigator

2009-2011

MSH-UHN Academic Medical Organization Phase III Innovation Funds

Title: A pilot study to improve the prediction of perioperative cardiac complications in non-cardiac surgery – role of non-invasive computer tomography coronary angiogram using the novel 320-row multidetector computer tomography

Amount: \$172,000

Principal Investigator: You-Ten E

Co-Principal Investigator: Paul N, Beattie WS

Co-Investigators: Iwanochko R, Wijeyesundera D, and Parker J

2009-2011

Heart and Stroke Foundation of Canada (HSF)**Title:** Nitrous Oxide Anesthesia and Cardiac Morbidity after Major Surgery: A Randomized Controlled Trial (ENIGMA II)**Amount:** \$160,000**Canadian Principal Investigator****Global PI:** Myles P

2011-2012

Canadian Institute of Health Research (CIHR)**Title:** PeriOperative ISchemic Evaluation (POISE II) Trial**Amount:** \$100,000**Principal Investigator:** Devereaux PJ**Co-Investigator & Member of Steering Committee****BRULL, R**

2009-2011

Department of Anesthesia Research Merit Awards – University of Toronto**Title:** Femoral nerve block after total knee arthroplasty: A randomized placebo

-controlled double-blind trial

Amount: \$40,000**Principle Investigator****CAMPBELL, F**

2009-2011

Department of Anesthesia Education and CPA Merit Awards – University of Toronto**Title:** The SickKids Pain Centre - first steps**Amount:** \$20,000**Principle Investigator****CHIN, KJ**

2009-2011

Department of Anesthesia New Investigators Merit Awards – University of Toronto**Title:** Ultrasound-assisted vs. landmark-guided spinal anesthesia in patients with difficult anatomy**Amount:** \$30,000**Principle Investigator**

2010-11

University of Toronto, Dean's Fund New Staff Grant Competition**Title:** Ultrasound-guided versus landmark-guided spinal anesthesia in patients with difficult anatomical landmarks**Amount:** \$10,000**Principle Investigator**

2011-12

Abbott Laboratories New Investigator Award in Anesthesia**Title:** Can anesthesia trainees effectively use ultrasound imaging to facilitate the performance of spinal anesthesia in patients with poorly-palpable surface landmarks?**Amount:** \$20,000**Principle Investigator****CLARKE, H**

2009-2011

Department of Anesthesia New Investigators Merit Awards – University of Toronto**Title:** The phenomics and genomics of clinically relevant chronic postsurgical pain**Amount:** \$30,000**Principle Investigator**

2010-2012

Physicians' Services Incorporated Foundation**Title:** The Phenomics and Genomics of Clinically Relevant Chronic Postsurgical Pain**Amount:** \$170,000**Principal Investigator****Co-Principal Investigators:** Seltzer Z, Katz J**Co-Investigators:** Choinière M, Djaiani G, Beattie WS, Paterson A, Rao V, McGillion M, Hunter J and Watt-Watson J**COOPER, R**

2009-2011

Department of Anesthesia Education and CPA Merit Awards – University of Toronto**Title:** A structured approach to training in flexible bronchoscopic intubation**Amount:** \$20,000**Principle Investigator****CRAWFORD, M**

2011-2012

SickKids Perioperative Services Innovation Project Grant.**Title:** Visual Restoration and Improvement in Quality of Life in Functionally Blind Children Using Excimer Laser Refractive Surgery.**Amount:** \$50,000 CAD**Principle Investigator:** Mireskandari K**Collaborator****CUTHBERTSON, B**

2007-2012

Scottish Funding Council**Title:** Patient Safety Research Collaboration for Scotland"**Amount:** TGA: 1,500,000 GBP.**Applicant & Grant Holder****Principle Investigator:** Flin R.**Collaborators:** Williams D; Davies H, Davey P; Universities of Aberdeen, Dundee and St. Andrews.

2007-2012

Health Technology Assessment Programme**Title:** OSCAR study - A multicentre trial of high frequency oscillation ventilation in ARDS**Amount:** TGA: 1,500,000 GBP.**Co-Investigator****Principle Investigator:** Young D.**Collaborators:** MacCabe C, Tunnicliffe W, Lamb S, Lall R.

2009-2011

Department of Anesthesia New Investigators Merit Awards – University of Toronto**Title:** A pragmatic multi-centre randomized controlled trial of fluid loading in high-risk surgical patients**Amount:** \$30,000**Principle Investigator**

2010-2012

Canadian Institutes of Health Research.**Title:** The efficacy, cost-effectiveness and ecological impact of Selective Decontamination of the Digestive tract in critically ill patients treated in the Intensive Care Unit (The SuDDICU study) PHASE 2- An exploratory study of the perceived risks, benefits and barriers to the use of SDD in Canadian critical care units **Amount:** TGA: 240,390 CAD.**Principle Investigator**

Collaborators: Burns K, Cook D, Dodek P, Ferguson N, Francis J, Grimshaw J, Hall R, Johnston B, Kanji S, Marshall J, McIntyre L, Muscedere J, Rose L, Webster F, Weijer C..

2010-2012

HTA Clinical Trials outline proposal.

Title: Selective decontamination of the digestive tract in Intensive Care Medicine (SuDDICU) feasibility study

Amount: TGA: 220,000 GBP. 2010-2011: 73,333.33 GBP

Principle Investigator: Francis J

Collaborators: Campbell M, Ramsay C, Johnson M, Rowan K, Wilson P, MacLennan G, Bellingan G, Eccles M, Cuthbertson BH

2011-2012

Intensive Care Foundation

Title: Selective decontamination of the digestive tract in Intensive Care Medicine (SuDDICU) feasibility study

Amount: TGA: 120,000 Au\$ 2010-2011: 60,000Au\$

Principle Investigator: Ian Seppelt

Collaborators: Campbell M, Ramsay C, Johnson M, Rowan K, Wilson P, MacLennan G, Bellingan G, Eccles M, Cuthbertson BH

DAVIES, S

2009-2011

Department of Anesthesia Research Merit Awards – University of Toronto

Title: Accredited continuing education website

Amount: \$20,000

Principle Investigator

DJAIANI, G

2009-2011

Department of Anesthesia Research Merit Awards – University of Toronto

Title: Reducing delirium after cardiac surgery: A multifaceted approach of perioperative care

Amount: \$40,000

Principle Investigator

2011-2013

MSH-UHN Academic Medical Organization Innovation Funds

Title: Reducing Delirium After TAVI: A Multifaceted Approach of Perioperative Care. AMO

Amount: \$172,000

Principal Investigator

Co-Investigators: Cohen E, Katznelson R, Feindel C, Styra R, Horlick E

FEDORKO, L

2009-2011

Department of Anesthesia Education and CPA Merit Awards – University of Toronto

Title: Bar code aided drug verification process during medicating patients in the Operating Room

Amount: \$40,000

Principle Investigator

FISHER, J

2009-2011

Department of Anesthesia Research Merit Awards – University of Toronto

Title: *Translation of new noninvasive monitoring techniques from the bench to the bedside* **Amount:** \$40,000

Principle Investigator

FRIEDMAN, Z

2009-2011

Department of Anesthesia Research Merit Awards – University of Toronto

Title: Composite projects: bridging the aseptic technique gap: Improving residents' performance of aseptic technique during regional anesthesia; Answering the ASRA challenge: Should gowning become standard of practice for neuraxial anesthesia?

Amount: \$20,000

Principle Investigator

GAGLIESE, L

2007-2012

Canadian Breast Cancer Research Alliance – Operating Grant (5 years)

Title: Age-related patterns in pain following breast cancer surgery

Amount: \$747,485

Principal Investigator

Co-investigators: Koren G, Chan V, Easson A, Rodin G, Li M

2011-2014

Canadian Institutes of Health Research – Operating Grant (5 years)

Title: Pain in older cancer patients with delirium: Development of an observational measure

Amount: \$787,410

Principal Investigator

Co-investigators: Rodin G, Zimmermann C, Stevens B, Chan VS

2010-2015

Canadian Institutes of Health Research – Operating Grant (5 years)

Title: Managing Cancer and Living Meaningfully: an RCT of an Individual Psychotherapy for the Treatment of Depression in Patients with Metastatic Cancer

Amount: \$773,249

Co-Principal Investigators: G. Rodin, S. Hales

Co-investigators: Donner A, Gagliese L, Kurdyak P, Li M, Lo C, Moore M, Nissim R, Rydall A, Shepherd F, Zimmermann C.

2010-2015

Canadian Institutes of Health Research – Operating Grant (5 years)

Title: Influence of Beliefs about Symptoms on Symptom Intensity, Distress and Patient's Participation in Self-Management Behaviours in Lung Cancer

Amount: \$243,444

Principal Investigators: D. Howell

Co-investigators: Bezjak A, Devins G, Gagliese L, Leigh N, Rodin G, Zimmermann C

2010-2015

Canadian Institutes of Health Research – Operating Grant (5 years)

Title: A prospective study of psychosocial distress and palliative care in patients with hematologic malignancies

Amount: \$644,687

Co-Principal Investigators: Rodin G & Zimmerman C

Co-investigators: Minden M, Brandwein J, Schimmer A, Gagliese L, Jones J

GRAHAM, M

2009-2011

Department of Anesthesia Research Merit Awards – University of Toronto

Title: University of Toronto anesthesia curriculum review

Amount: \$40,000

Principle Investigator

HARE, G

2009-2011

Department of Anesthesia Research Merit Awards – University of Toronto**Title:** Characterizing physiological and cellular mechanisms which reduce brain injury and promote survival**Amount:** \$40,000**Principle Investigator**

2010-2012

The Society of Cardiovascular Anesthesiologists**Title:** Determining the hemoglobin threshold for hypoxic cellular responses: studies in anemic hypoxia inducible factor (HIF)-ODD-Luciferase Mice**Amount:** \$100,000 US**Principal Investigator**

2010-2011

SMH Innovation Fund**Title:** Novel Measurement of Tissue Oxygen Tension to Improve Clinical Outcomes in Cardiopulmonary Resuscitation" (CPR),**Amount:** \$30,000**Principal Investigator**

2010-2012

The Physicians' Services Incorporated Foundation**Title:** β 1-Adrenergic antagonists impair murine and human resistance artery function**Amount:** \$160,000**Principal Investigator****HAYTER, M**

2009-2011

Department of Anesthesia New Investigators Merit Awards – University of Toronto**Title:** The effect of mental practice on anesthesia crisis resource management**Amount:** \$30,000**Principle Investigator****JADAD, AR**

2008-2011

Canadian Institutes of Health Research**Title:** Canadian Program of Research on Ethics in a Pandemic (CanPREP): Whose risks, whose duties, and what priorities?**Amount:** \$1,967,252**Principle Investigator:** Upshur.R**Investigators:** Wilson, K, Douglas, M, Jadad, AR, et al

2008-2013

Canadian Institutes of Health Research**Title:** CIHR Centre in HIV Prevention Social Research**Amount:** \$2,094,915**Principle Investigator:** Calzavara L**Investigators:** Adrien A, Getty A, Grace A, Godin G, Mayers T, Tyndall M, Worthington C, Jadad AR

2009-2011

Canadian Institutes of Health Research**Title:** End-user support in the implementation of Electronic Health Records in primary care: a case study of early adopters**Amount:** \$ 94,670**Principle Investigator:** Shachak A**Investigators:** Jadad AR et al

2009-2014

Canada Foundation for Innovation**Title:** Inclusive Design Institute**Amount:** \$8,070,236**Principle Investigator:** Treviranus J**Investigators:** Jadad AR, Diamond S, Fells D

2009-2015

Canadian Institutes of Health Research**Title:** CIHR Strategic Training Program on Health Care, Technology and Place(renewal)**Amount:** \$1,950,000**Principle Investigator:** Coyte PC**Investigators:** Andrews G, Upshur R, Baecker RM, Bayoumi A, Boydell K, Jadad AR

2009-2015

Canadian Institutes of Health Research**Title:** CIHR Strategic Training Program in the Social Aetiology of Mental Illness**Amount:** \$1,783,890**Principle Investigator:** McKenzie K**Investigators:** Samuel N, Jadad AR, Barwick MA

2009-2015

Canadian Institutes of Health Research**Title:** CIHR Strategic Training Program on the Health Applications of Cell Signalling in Mucosal Inflammation & Pain(renewal)**Amount:** \$1,950,000**Principle Investigator:** Ellen RP**Investigators:** McCulloch C, Jadad AR

2009-2011

Citizenship and Immigration Canada**Title:** Citizenship and Immigration Canada's Youth/Community Health System Support Network Project"**Amount:** \$ 1,381,752**Principal investigator** Jadad AR**Investigators:** Norman C, Cortinois A

2010-2011

Canadian Institutes of Health Research**Title:** Food for Health Equity in Diverse Communities: Creating Pathways to Advantage Through Food Innovation Networks**Amount:** \$50,000**Principle Investigator:** Norman C**Investigators:** Ahmad F, Haque N, Jadad AR

2010-2011

Canadian Institutes of Health Research**Title:** Mutual engagement of patients and providers: integrating knowledge through participatory design**Amount:** \$24,000**Principle Investigator:** O'Grady LA**Investigators:** Jadad AR, Wiljer D, Urowitz S

2010-2012

Canadian Health Services Research Foundation**Title:** Research on Supporting Healthcare Citizen Boards for Effective Governance on Quality and Patient Safety**Amount:** \$125,000**Principle Investigator:** Glouberman S**Investigators:** Jadad AR, Catton P

2010-2013

Canadian Institutes of Health Research

Title: Transition to Survivorship: Translating knowledge into action for testicular and endometrial cancer populations

Amount: \$256,581

Principle Investigators: Jones JM, Howell DM

Investigators: Jadad AR, Buchman S, Catton P, Earle C, Ferguson S, Fitzgeralds B, Gagliardi A, Gospodarowicz M, Harrison M, Friedman AJ, Sharpe M, Urowitz S, Warde P, Wiljer D

2010-2013

IDRC

Title: Public eHealth Innovation and Equity in Latin America and Caribbean (eSac)

Amount: \$1.5 million

Principle Investigator: Jadad AR

Investigators: Cortinois A

2010-2015

HRSA-10-231 - Academic Administrative Units in Primary Care, Family Medicine

Title: Developing Practice Transformation Capacity in a Family Medicine Academic Administrative Unit (AAU)

Amount: \$1.4 million USD

Principle Investigator: Borkan J

Investigators: Jadad AR, Miller W, Adams L, Grundy P, Eaton C

2011-2012

Heart and Stroke Foundation of Canada

Title: Race/ethnicity and the perception of Diabetes and cardiovascular disease risk factors in the context of Canada's Lifestyle and Obesity Guidelines

Amount: \$50,000

Principle Investigator: Kuk JL

Investigators: Ritvo PG, Lam YM, Arden CI, Hamadeh M, Jadad AR, Salmon A, Wharton S

KARKOUTI, K

2009-2011

Department of Anesthesia Research Merit Awards – University of Toronto

Title: Advance targeted transfusion in anemic cardiac surgical patients for kidney protection

Amount: \$40,000

Principle Investigator

2009-2011

Heart and Stroke Foundation of Canada

Title: Advance Targeted Transfusion in Anemic Cardiac surgical patients for Kidney protection (ATTACK): a proof of concept pilot study

Amount: \$98,102

Principle Investigator

Co-Principal Investigator: Wijeyesundera D

KATZ, J

2011-2014

Workplace Safety and Insurance Board of Ontario

Title: Pre-existing patient factors associated with sensorimotor recovery, chronic pain, and brain plasticity following surgical repair of peripheral nerve injuries

Amount: \$348,273

Principal Investigator: Davis K

Co-Investigators: Anastakis D, Katz J

KATZNELSON, R

2009-2011

Department of Anesthesia Research Merit Awards – University of Toronto

Title: Melatonin administration and postoperative delirium

Amount: \$20,000

Principle Investigator

KAVANAGH, B

2008-2013

Canadian Institutes of Health Research

Title: Therapeutic Potential of Hepoxilin Analogues (*Operating Grant*)

Amount: \$620,000

Principal Investigator: Post M

Co-Principal Investigator

2008-2013

Canadian Institutes of Health Research

Title: Ventilator-Induced Lung Injury: Linking gene activation, physiology and outcome (*Operating Grant*)

Amount: \$643,000

Principal Applicant

Co-applicant: Post M

2009-2014

Canadian Institutes of Health Research

Title: Preclinical Assessment of Therapeutic Hypercapnia (*Operating Grant*)

Amount: \$563,000

Principal Applicant

LO, N

2010-2011

Academic Health Science Centres – Alternative Funding Plans – Innovation Fund.

Title: Multi-Centred Regional Anesthesia Collaborative Database

Amount: \$68,000.

Principal Investigator

Co-Investigators: Houston P

MAZER, CD

2009-2011

Department of Anesthesia Research Merit Awards – University of Toronto

Title: Translational studies of mechanisms of renal dysfunction following cardiopulmonary bypass

Amount: \$40,000

Principle Investigator

2011-2014

Canadian Institutes of Health Research

Title: Transfusion requirements in cardiac surgery (TRICS II)

Amount: \$444,165

Co-Principal Investigator: Shehata N

2010-2011

Canadian Institutes of Health Research

Title: Plasma utilization in cardiac surgery (PUCS): a multicentre observational study

Amount: \$216,900.

Principle Investigator: Tinmouth A

McCARTNEY, C

2008-2011

PSI FOUNDATION

Title: Comparing the postoperative functional recovery and analgesic efficacy of a single shot sciatic nerve block versus posterior capsule infiltration of local anesthetic for total knee arthroplasty

Amount: \$50,000 over three years

Co-Principal Investigator: McCartney C, Safa B

Co-Investigator: Gollish, J

2011-2012

Sunnybrook Medical Services AFP 2010-2011 Innovation Fund

Title: Identifying and removing barriers to the use of regional anesthesia for total hip arthroplasty in Ontario

Amount: \$60,270

Principal Investigator

2011-2012

European Society of Regional Anesthesia Grant

Title: Improving success rate of continuous peripheral nerve blocks using a novel coiled catheter

Amount: 10,000 Euro

Co-principal Investigators: McCartney C, Luyet C

2011-2014

Sunnybrook Musculoskeletal Research Group Salary Award

Amount: \$20,000 per annum for 3 years

Principal Investigator

McCLUSKEY, S

2010-2011

Anesthesia Patient Safety

Title: Virtual Anesthesia: An online simulation of intra-operative hemodynamic management in major surgical procedures

Amount: \$70,650

Principal Investigator

Co-Investigators: Beattie WS, Tamir D, Tait GA

MEINERI, M

2009-2011

Department of Anesthesia Education and CPA Merit Awards – University of Toronto

Title: Virtual cardiac imaging

Amount: \$20,000

Principle Investigator

2009-2011

MSH-UHN Academic Medical Organization, Alternative Funding Plan, Phase III Awards

Title: The use of volatile anesthesia after cardiac surgery: a comparison with standard intravenous anesthesia

Amount: \$189,324

Principal Investigator: Dr. Marcin Wasowicz

Co-investigators: Drs. Jacek Karski, George Djaiani, Massimiliano Meineri, Rita Katznelson, W. Scott Beattie

2010-2011

Academic Health Science Centre – Academic Funding Plan, Innovation Funds

Title: Virtual TTE: an interactive online teaching for learning transthoracic echocardiography

Amount: \$194,000

Principal Investigator

Co-investigators: Vegas A, Silversides C, Tait GA.

2010-2011

The J.P. Bickle Foundation

Title: Simulation of Transesophageal Echocardiography (TEE): An online resource for learning to manipulate the TEE probe to obtain the 20 standard diagnostic views

Amount: \$57,241

Principal Investigator

Co-Investigators: Beattie WS, Vegas A, Tait G

2011-2012

MSH-UHN AMO AFP Innovation Fund

Title: An interactive online teaching aid for learning transthoracic echocardiography

Amount: \$194,000

Principal Investigator

Co-investigators: Vegas A, Silversides C, Tait G

2011-2013

Mount Sinai, University Health Network Academic Medical Organization Innovation Fund

Title: Reducing delirium after trans-apical aortic valve implantation: A multifaceted approach of perioperative care

Amount: \$172,072

Principal Investigator: Djaiani G

Co-investigators: Katznelson R, Meineri M, Horlick E, Feindel C

2011-2013

Mount Sinai Hospital and the University Health Network Academic Medical Organization Innovation Fund

Title: Virtual TTE: An interactive online teaching aid for learning transthoracic echocardiography

Funding Amount: \$200,000

Principal Investigator

Co-investigators: Vegas A, Silversides C, Tait G

MORGAN, PJ

2009-2011

Department of Anesthesia Research Merit Awards – University of Toronto

Title: Obstetric team training and surgical safety checklist introduction

Amount: \$40,000

Principle Investigator

2009-2011

Alternate Funding Plan Innovation Fund

Title: Introduction of the Surgical Safety Checklist and Patient Outcome Assessment in an Academic Ambulatory Hospital

Amount: \$60,000

Principal Investigator

Co-Investigators: Kronberg J, Semple J.

2010-2011

Physicians Services' Incorporated Foundation

Title: Quality of recovery in women undergoing autogenous breast reconstruction in an ambulatory setting

Amount: \$13,500.00

Principal Investigator: Davidge, K

Co-Investigators: Semple J, Brown M, Morgan P.

2011-2012

Continuing Education and Research Development Award, University of Toronto

Title: Using Situational Awareness Global Assessment Technique (SAGAT) for Interdisciplinary Obstetrical Team Training using High-Fidelity Simulation

Amount: \$4,950

Principal Investigator**Co-Investigators:** Tregunno D, Pittini R, Brydges R, Tarshis J, Kurrek M, Milne K.

2011-2013

Alternate Funding Plan Innovation Fund**Title:** Ambulatory breast cancer surgery: Does ultrasound guided paravertebral block as part of a multimodal regimen offer any advantages? A randomized controlled comparative study.**Amount:** \$59,740.90**Principal Investigator****Co-Investigators:** Abdallah F, Cil T, McNaught A, Srebrnjak M, Kronberg J, Semple J.

2011-2013

Alternate Funding Plan Innovation Fund**Title:** Implementation of 23 hr length of stay for breast reconstruction surgery: Quality of Recovery evaluation following discharge**Amount:** \$59,562.32**Principal Investigator:** Semple J**Co-Investigators:** Brown M, Morgan P, Davidge K.**NIAZI, A**

2010-11

PSI Foundation**Title:** The use of web-based interactive 3-D anatomic models for teaching ultrasound guided neuraxial nerve blocks**Amount:** \$69,100**Principal Investigator****Co-investigators:** Chan V, Tait G.

2011-2012

Canadian Anesthesia Society**Title:** The use of an interactive 3D anatomic model to improve initial performance in ultrasound scanning of the spine**Amount:** \$7,500**Principal investigator:****Co-investigators:** Chan V, Carvalho C, Tait G.**ORSER, B**

2006-2011

Canadian Institute of Health Research**Title:** The role of GABA_A receptors in anesthetic-induced impairment of memory and Consciousness**Amount:** \$595,895

Principal Investigator

2008-2013

Canadian Institute of Health Research**Title:** Tonic GABAergic regulation of memory and plasticity"**Amount:** \$826,305

Principal Investigator

2009-2014

Canada Research Chair in Anesthesia, Tier 2, Renewal:**Title:** Anesthetic Drugs: From Molecular Mechanisms to Patient Safety.**Amount:** \$500,000**Principal Investigator**

2010-2011

Canadian Anesthesiologists' Society Dr. Earl Wyands/ Fresenius Kabi Research Award:**Title:** Seizures associated with antifibrinolytics: Mechanisms and treatment strategies"**Amount:** \$30,000**Principal Investigator****Co Investigator:** Lecker, I

2011-2016

Canadian Institute of Health Research:**Title:** Trans-Disciplinary team Research and Training Program in Sleep and Biological Rhythms**Amount:** \$2,000,000**Principle Investigator:** Horner, R**Co-investigator**

2011-2016

Canadian Institute of Health Research:**Title:** The role of GABA-A receptors in postoperative memory deficits.**Amount:** \$860,535; \$172,107 per annum for 5 years)**Principal Investigator****PERLAS, A**

2010-2011

Canadian Anesthesiologists' Society/ General Electric Canada Research Award in Perioperative Imaging**Title:** Bedside ultrasound assessment of gastric volume. Validating a mathematical model using gastroscopic examination**Amount:** \$30,000**Principal Investigator****Co-investigators:** Liu L, Cino M, Mitsakakis N, Chan V**PENG, P**

2009-2011

Department of Anesthesia Education and CPA Merit Awards – University of Toronto**Title:** Education in chronic pain**Amount:** \$20,000**Principle Investigator****RIAZI, S**

2010-2011

Physicians' Services Incorporated Foundation**Title:** Can Ultrasound detect diabetic peripheral Neuropathy?**Amount:** \$19,000**Principal Investigators:** Riazzi, S, Brull R

2010-2011

Carl Koller Memorial Research Grant, American Society of Regional Anesthesia and Pain Medicine (ASRA)**Title:** Can Ultrasound predict nerve injury following posterior tibial nerve block in diabetic patients with peripheral neuropathy?**Amount:** \$33,696**Principal Investigator****RIGAMONTI, A**

2009-2010

The PSI Foundation**Title:** Effect of Scalp Nerve Blocks on Post-Operative Pain and Discharge Times in Patients Undergoing Supra-Tentorial Craniotomy and General Anesthesia (Triple Blinded Randomized Controlled Trial).**Amount:** \$ 120,000**Principal Investigator**

2010-2011

Peer-reviewed funded from the Fonds de la Recherche en Santé du Québec (FRSQ) and Canadian Intensive Care Foundation (CICF)**Title:** Early determination of neurological prognosis in ICU patients with severe traumatic brain injury: TBI Prognosis Pilot Study Multicentre Observational Study**Amount:** \$175,000**Principal Investigator:** Turgeon, A.**Co-Investigator****SAFA, B**

2008-2011

The PSI Foundation**Title:** A prospective, unicenter, randomized, placebo controlled, clinical interventional trial, comparing the postoperative functional recovery as well as analgesic efficacy of a single shot sciatic nerve block versus posterior capsule/fat pad infiltration of local anesthetic for total knee arthroplasty**Amount:** \$50,000**Principal Investigator****Co-investigators:** Colin J.L. McCartney, Jeffrey Gollish**SARMAH, A**

2010

Sunnybrook Medical Education**Title:** E-learning versus didactic learning prior to Undergraduate Simulation**Amount:** \$2,500**Principal Investigator**

2011

SHUTC Academic Fund**Title:** E-learning versus didactic learning prior to Undergraduate Simulation**Amount:** \$1,999**Principal Investigator****SIDDIQUI, N**

2010-2011

Education Development Fund for Innovation in Education University of Toronto.**Title:** The Impact of Simulator based Education on the Acquisition of Life-Saving Airway Procedure – Role of A Specialized Hybrid-High Fidelity Patient Simulator Model**Amount:** \$18,950**Principal Investigator****Co-Investigators:** You-Ten E, Friedman Z, and Arzola C.**SZABO, E**

2009-2011

Department of Anesthesia New Investigators Merit Awards – University of Toronto**Title:** Mechanism of voltage-gated Na channel (Nav) related cardiomyopathy**Amount:** \$30,000**Principle Investigator****TARSHIS, J**

2009-2011

Department of Anesthesia Education and CPA Merit Awards – University of Toronto**Title:** The development of a national simulation curriculum for postgraduate training in Canada**Amount:** \$20,000**Principle Investigator**

2011- 2012

Continuing Education and Research Development Award, University of Toronto**Title:** Using Situational Awareness Global Assessment Technique (SAGAT) for Interdisciplinary Obstetrical Team Training using High-Fidelity Simulation**Amount:** \$4,950.00**Principal Investigator:** Morgan PJ**Co- Investigator:** Tregunno D, Pittini R, Brydges R, Tarshis J, Kurrek M, Milne K.**VEGAS, A**

2009-2011

Department of Anesthesia Education and CPA Merit Awards – University of Toronto**Title:** Cardiac anesthesia fellows' manual**Amount:** \$20,000**Principle Investigator****WASOWICZ, M**

2009-2011

Department of Anesthesia Research Merit Awards – University of Toronto

Title: Use of volatile anesthetics for ICU sedation and platelet function in post-PCI patients**Amount:** \$40,000**Principle Investigator**

2010-2011

Anesthesia Patient Safety Foundation (Eisai Research Award)**Title:** The association between platelet inhibition and perioperative major adverse cardiac events in post-percutaneous coronary intervention patients undergoing non-cardiac surgery**Amount:** US \$147,835**Principal Investigator****Co-Principal Investigators:** Lavi R, Syed S, Karkouti K, Beattie WS**WELLS, G**

2010

Research Program in Applied Sport Sciences.**Title:** Optimization of Tapering for Peak Performance**Amount:** \$10,000**Principal Investigator**

2010

Canadian Chiropractic Protective Association.**Title:** Changes in vertebral artery and posterior cerebellar artery blood flow with spinal manipulation; and MRI study**Amount:** \$24,000**Co-Principal Investigators:** Wells G, Triano J

2010-2013

Canadian Gene Cure Foundation.**Title:** Study to Investigate the efficacy of L-arginine therapy on endothelium-dependent vasodilation and mitochondrial metabolism in heteroplasmic patients with MELAS syndrome**Amount:** \$75,000**Principal Investigator:** Tein I**Co-investigator****WIJEYSUNDERA, D**

2009-2011

Canadian Anesthesia Research Foundation**Title:** The PeriOperative Epidural Trial (POET) II**Amount:** \$10,000

Principal Investigator: Choi P
Co-Applicant: Wijeyesundera D

2010-2011

Funding Agency: Canadian Institutes of Health Research

Title: POISE-2 Trial

Amount: \$100,000

Principal Applicant: Devereaux P.J

Co-Applicant: Wijeyesundera D

2009-2011

Funding Agency: Ontario Ministry of Health and Long-Term Care Alternative Funding Plan Innovation Funds

Title: A pilot study to improve the prediction of perioperative cardiac complications in noncardiac surgery- Role of non-invasive CT coronary angiogram using the novel 320-row multidetector CT

Amount: \$172,094

Principal Applicant: You-Ten E

Co-Applicant: Wijeyesundera D

2009-2011

Funding Agency: Heart and Stroke Foundation of Ontario (Grant-in-Aid NA 6599)

Title: Advance targeted transfusion in anemic cardiac surgical patients for kidney protection: a proof of concept pilot study

Amount: \$98,102

Principal Applicant: Karkouti K

Co-Applicant: Wijeyesundera D

2011-2012

Anesthesia Patient Safety Foundation

Title: A prospective observational study to determine the prognostic value of noninvasive Computer tomography coronary angiogram for cardiac risk stratification in noncardiac surgery – role of 320 row multidetector computer tomography

Amount: \$150,000

Principal Investigator: You-Ten E

Co-Applicant: Wijeyesundera D

WONG, G

2009-2011

Department of Anesthesia New Investigators Merit Awards – University of Toronto

Title: Efficacy of l-carnitine in prevention and treatment of bupivacaine-induced cardiotoxicity in rats

Amount: \$30,000

Principle Investigator

WONG, J

2009-2011

Department of Anesthesia Research Merit Awards – University of Toronto

Title: Efficacy of intraoperative topical application of tranexamic acid versus placebo

Amount: \$20,000

Principle Investigator

YOU-TEN, E

2009-2011

Department of Anesthesia Research Merit Awards – University of Toronto

Title: Preoperative noninvasive computer tomography coronary angiogram in cardiac risk stratification

Amount: \$40,000

Principle Investigator

2009-2011

Department of Anesthesia Education and CPA Merit Awards – University of Toronto

Title: Development and integration of a comprehensive airway course in the Anesthesia residency curriculum

Amount: \$20,000

Principle Investigator

2011-2012

Medical Education Research Grant (MERG). Royal College of Physicians and Surgeons of Canada

Title: Translational Performance of Crisis Resource Management in In-Situ Simulation

Amount: \$24,825

Principal Investigator

Co-Investigators: Siddiqui N, Perlman S, Arzola C, Friedman Z

2011-2013

The Anesthesia Patient Safety Foundation/American Society of Anesthesiologists Endowed Research Award

Title: A Prospective Observational Study to Determine the Prognostic Value of Noninvasive Computed Tomography Coronary Angiogram for Cardiac Risk Stratification in Noncardiac Surgery- Role of the 320-Row Multidetector Computer Tomography

Amount: \$150,000

Principal Investigator

Co-Principal Investigators: Beattie WS, Paul Narinder P

2011-2013

The Doctors Company Foundation Ann S. Lofsky MD Research Award.

Title: A Prospective Observational Study to Determine the Prognostic Value of Noninvasive Computed Tomography Coronary Angiogram for Cardiac Risk Stratification in Noncardiac Surgery- Role of the 320-Row Multidetector Computer Tomography

Amount: \$5,000

Principal Investigator

2010-2011

Canadian Anesthesiologists' Society Research Award/Grant.

Title: The Impact of Simulation on the Proficiency in Performing Cricothyrotomy on a Hybrid Porcine Larynx-High Fidelity Patient Simulator

Amount: \$30,000

Principal Investigator

ZHANG, H

2011-2016

CIHR Operating Grant

Title: Mechanisms of human neutrophil peptides in lung inflammation.

Amount: \$828,620

Principle Investigator

2010

Going Global Innovation Grant, Science and Technology Division, Foreign Affairs and International Trade Canada

Title: Animal studies of ventilator-induced lung injury (GGI-11-127). 11.7-15,

Amount: \$5,544

Principle Investigator

NON-PEER REVIEWED GRANTS

CHUNG, F

2010-2011

Pfizer Pharma

A double blind randomized placebo controlled study for smoking cessation in preadmission clinic – the use of a teachable moment

Amount: \$160,000

2010-2011

Resmed Foundation

The effectiveness of perioperative CPAP to reduce the occurrence of OSA related adverse events in surgical patients with OSA

Amount: \$120,000

COOPER, R

2010-2011

Interrad Medical Incorporated

SecurAcath Study -Subcutaneous Intravenous Catheter Securement Study.

Amount: \$85,000

Principal Investigator

Co-investigator: Rita Katznelson

DAVIES, S

2011

Fresenius Kabi

Continuing Education Website Support 2011

Amount: \$10,000

Principal Investigator

2011

Abbott Canada

Continuing Education Website Support 2011

Amount: \$2,000

Principal Investigator

DJAIANI, G

2011

Hospira Incorporated

Open-Label Study Evaluating the Hemodynamic Effect of Differing Loading Regimens of Precedex in a Post-Surgical Intensive Care Patient Population.

Amount: \$45,000

Principal Investigator

Co-investigator: Rita Katznelson

2011-2013

Hospira Incorporated

Reducing Delirium After High Risk Cardiac Surgery. A Multifaceted Approach Of Perioperative Care

Amount: \$67,000

Principal Investigator

HARE, G

2010-2012

Forest Research Institute Inc

Nebivolol maintains tissue oxygen delivery during acute hemodilution

Amount: \$108,000

Principle Investigator

HAYTER, M

2011-2012

St. Michael's Hospital Innovations Fund AFP

Title: Simulation Based Interprofessional Education - the effect of mental practice on trauma team performance.

Amount: \$137,782.00 over two years

Principle Investigator

KARKOUTI, K

2009-2011

Novo-Nordisk

A multi-centre, randomized, double-blind, placebo controlled trial on safety and efficacy of FXIII replenishment following cardiopulmonary bypass surgery (phase II trial).

Amount: \$200,000

Chair of Steering Committee and Site Principal Investigator

2011

Helena Laboratories

Functional analysis of platelets during cardiac surgery to guide transfusions requirements in the operating room (FACTOR): a prospective, observational study

Amount: \$36,258

Principal investigator: Karkouti, K

MAZER, CD

2009-2010

CONSERV™

1 (Clinical Outcomes and Safety Trial to Investigate Ecallantide's effect of Reducing Surgical Blood Loss Volume) – A Phase 2 randomized Placebo-controlled Dose-ranging Study in Subjects Exposed to Cardiopulmonary Bypass during Primary Coronary Artery Bypass Grant Surgery

Amount: \$1026

Site Investigator

MCCARTNEY, C

2009-2011

Pfizer Neuropathic Pain Research Award

The Short and Long Term Effects of Perioperative Pregabalin Use on Functional Rehabilitation, Pain Outcomes and Anxiety following Total Hip Arthroplasty: A Randomized, Double-Blind, Placebo-Controlled Trial

Amount: \$145,000 over two years

Principal Investigator: Clarke, H

2011-2012

Baxter Educational grant

Continuous peripheral nerve blocks for major orthopedic surgery

Amount: \$19,800

Co Investigators: van der Vyver M

MINKOVICH, L

2010-2011

Edward LifeSciences Corporation

Evaluation of the Perioperative Hemodynamic Changes during Orthotopic Liver Transplantation: A Prospective Observational Trial
Amount: \$110,000

Principal Investigator: Minkovich L

Co-Investigators: Djajani G, Granton J, Naughton F, McCluskey S

MORGAN, P

2010-2011

Alternate Funding Plan Innovation Fund

Patient Safety: Introduction of the Surgical Safety Checklist and Patient Outcome Assessment in an Academic Ambulatory Hospital.

Amount: \$30,000

Principle Investigator

Co – Investigator: Kronberg J, Semple J

2011-2012

Alternate Funding Plan Innovation Fund

Ambulatory breast cancer surgery: Does ultrasound guided paravertebral block as part of a multimodal regimen offer any advantages? A randomized controlled comparative study.

Amount: \$29,923.88

Principle Investigator

Co-Investigators: Abdallah F, Cil T, McNaught A, Srebrnjak M, Kronberg J, Semple J.

2011-2012

Alternate Funding Plan Innovation Fund

Implementation of 23 hr length of stay for breast reconstruction surgery: Quality of Recovery evaluation following discharge.

Amount: \$29,841.50

Principle Investigator: Semple J

Co Investigators: Brown MH, Morgan PJ, Davidge K.

PERLAS, A

2010-2011

Pfizer Canada

Unrestricted educational grant to fund Visiting Professors/City-wide pain rounds 2011

Amount: \$20,000

Principle Investigator

PRONOVOST, A

2009-2011

Alternative Funding Plan (AFP) Innovation Fund

Process Improvement in the Pre-Anesthesia Facility, St. Michael's Hospital

This project applies Lean methodology to patient encounters in the Pre-Admission Facility (PAF) in order to improve patient care and satisfaction while reducing waste.

Amount: \$70,000 per annum

Principle Investigator

Co Investigators: Mai R, Houston P

SPADAFORA S

2011

Health Canada funded initiative contract. University of Toronto, University of British Columbia & McGill University

The Future of Medical Education in Canada Postgraduate Project (FMEC PG Project) Environmental Scan Consultant.

Amount: \$200,000

Principal Investigator: Verma S

Co Investigators: Bates J, Meterissian S, Rungta K, Spadafora S

2011

Health Canada funded initiative contract. University of Toronto, University of British Columbia & McGill University

The Future of Medical Education in Canada Postgraduate Project (FMEC PG Project) Liaison and Engagement Consultant.

Amount: \$115,000

Principal Investigator: Verma S

Co Investigators: Meterissian S, Rungta K, Spadafora S

