

ANESTHESIA

2009-2010 ANNUAL REPORT



UNIVERSITY OF TORONTO

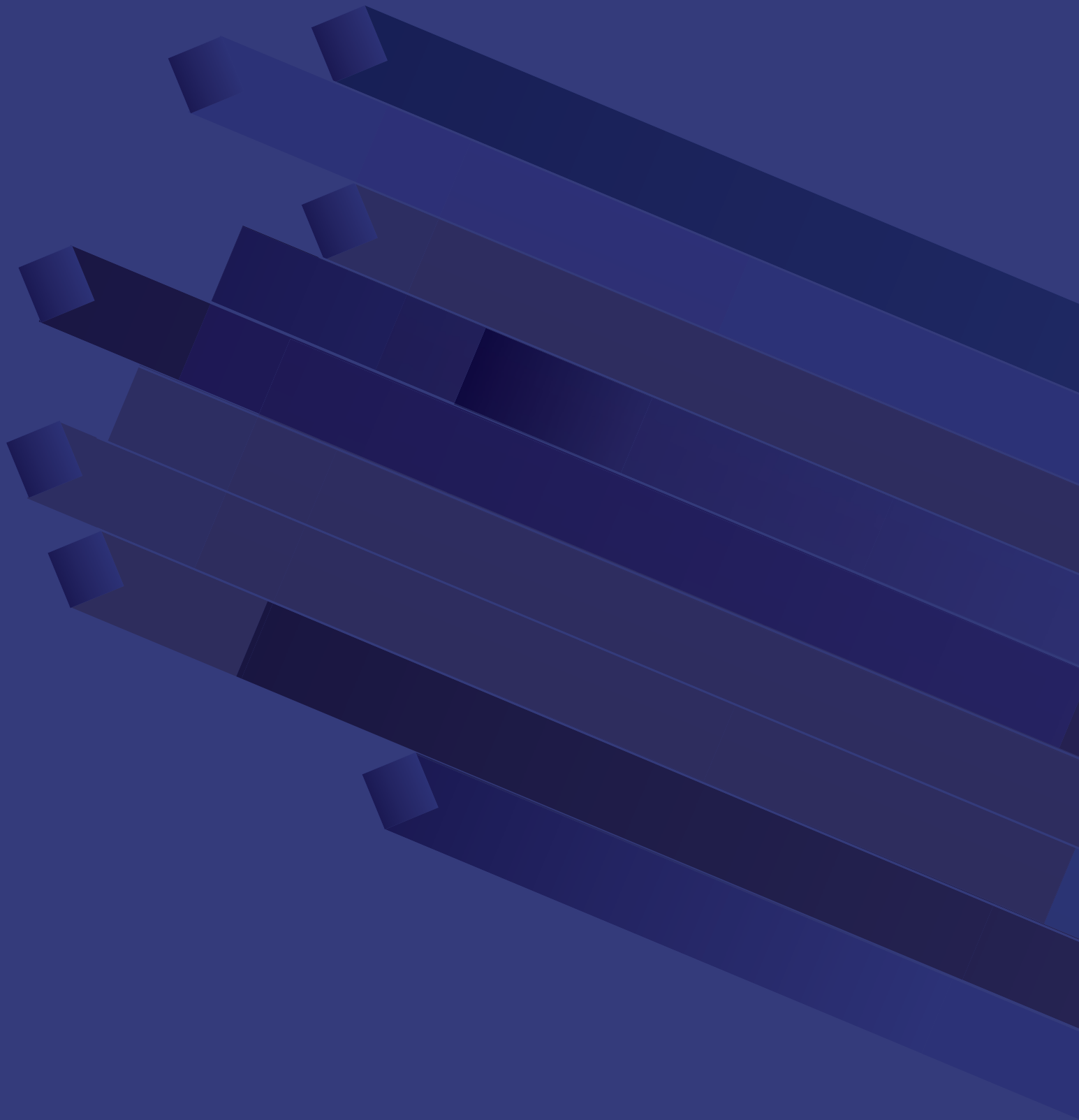


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CHAIR'S INTRODUCTION

Dr. Brian Kavanagh

Welcome to the 2009-2010 annual report from the Department of Anesthesia at the University of Toronto.

This report outlines much of the work that is undertaken in the University Department, which consists of the residents, fellows and faculty working at one or more of 12 university affiliated hospital departments.

The report describes the departmental structures that enable its mission to be carried out, and outlines the tenets of the department's strategic plan. Beyond this, we illustrate in a special section exactly how we are doing in terms of implementing that plan, which we see as our blueprint for the future.

Our department is large; we are over 350 faculty, 98 residents and 90 clinical or research fellows. Our faculty provide expertise as clinicians as well as researchers, teachers, educators or administrators. Together, this mix of talent results in an effective program of discovery, teaching and continuously improving care and service delivery for our patients.

Not only is the department large, it is also—by any metric—highly successful. Dr. Mazer illustrates this in the key publication and citation data, and if that isn't sufficient, the publication and funding profile of our faculty coupled with the obvious talent of our trainee residents and fellows speaks volumes. Dr. Houston outlines our structure and accomplishments in teaching and education, as does Dr. O'Leary in terms of clinical developments; again impressive accomplishments of impressive individuals.

Our collective success notwithstanding, our goal is not to rest on our academic or clinical achievements but rather to devise ways in which we can further academic success so that we continue to expand our knowledge, to enhance our ability to impart that knowledge to our learners, and to ensure that we augment the delivery of care to patients. In this way we can truly assure ourselves and our colleagues that we really are achieving that most precious of goals — helping patients.

A cornerstone of the department is our exemplary administrative structure; for this we are grateful to our Business Manager Ms. Wendy Kubasik and her team, as well as to the individual hospital administrative staff.

I invite you to browse through what we do in the department, and to reflect on what we have achieved in 2009-2010. Please visit our website or speak with any of the executive or drop me an email (brian.kavanagh@utoronto.ca) if you have any additional questions.

Many thanks for taking an interest in our department.

SINCERELY,



BRIAN KAVANAGH
PROFESSOR AND CHAIR



Our faculty provide expertise as clinicians as well as researchers, teachers, educators or administrators. Together, this mix of talent results in an effective program of discovery, teaching and continuously improving care and service delivery for our patients.

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 COLLEGIALLY;
- 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

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
Ms. Tracey Boone	Program Assistant

SITE COORDINATORS

Dr. Lisa Bahrey	UHN (Toronto General Hospital)
Dr. Vinod Chinnappa	Women's College Hospital
Dr. Mabel Choi	Sunnybrook Health Sciences Centre
Dr. Dragan Djordevic	Women's College Hospital
Dr. Darryl Irwin	Mount Sinai Hospital
Dr. Carol Loffelman	St. Michael's Hospital
Dr. Ryan Mai	St. Michael's Hospital
Dr. Patrick Mark	Toronto East General Hospital
Dr. Ahtsham Niazi	UHN (Toronto Western Hospital)
Dr. Anahi Perlas	UHN (Toronto Western Hospital)
Dr. James Robertson	The Hospital for Sick Children
Dr. Anita Sarmah	Sunnybrook Health Sciences Centre
Dr. Diana Tamir	UHN (Toronto General Hospital)

POSTGRADUATE EDUCATION PROGRAMS

Dr. Mark Levine	Director
Dr. Henderson Lee	Director, Family Practice Anesthesia
Dr. Deven Chandra	Anesthesia Simulator
Dr. Beverly Morningstar	Resident Counselor
Dr. Daniel Riegert	Resident Counselor
Ms. Jennifer Morris	Program Assistant

SITE COORDINATORS

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

CONTINUING EDUCATION AND PROFESSIONAL DEVELOPMENT

Dr. Peter Slinger	Chair
Dr. Zeev Friedman	Chair, Annual Shields Research Day 2010
Dr. Peter Slinger/Martin van der Vyver	Co-Chairs, Faculty Development Day 2009

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, R. Bechamp, D. Djordevic, P. Houston, D. Irwin, B. Kavanagh, J. Kim, W. Luksun, R. Mai, P. Mark, A. Perlas, J. Robertson, A. Sarmah
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 2009 Planning	P. Slinger and 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 260 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 70 part-time faculty members. Our community affiliates include:

- 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 2009-2010, the UT Department commenced implementation of the strategic priorities outlined in our Strategic Plan 2009-2014 (see <http://www.anesthesia.utoronto.ca/about/strategy.htm> for the complete plan). Significant progress has been made in implementing these 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 several hundred of our alumni 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 has been appointed to serve as the inaugural President of the UT Anesthesia Alumni Society. Terms of reference for an Alumni Society have been devised, and members are currently being sought. An information session for our alumni will be held at the Ontario Medical Association (OMA) meeting in October of 2010. At the time that this report is being printed, an Alumni Reunion is being planned for June 2011; this event will be held at the Canadian Anesthesiologists Society meeting, and will coincide with the UT Department of Anesthesia's 60th Anniversary, which takes place in 2011.

Plans for an advancement campaign are underway, and options to seek additional funding for students, chairs and professorships, are currently being explored.

PRIORITY 2: ACADEMIC PRODUCTIVITY - MEASUREMENT AND ACCOUNTABILITY

A Task Force - led by Drs. Mark Crawford (Anesthesiologist-in-Chief, the Hospital for Sick Children) and 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 Vice Chair Education, an Education Council - comprised of the Directors of our education programs and the departmental Chair - has been struck and meets on a regular basis. We have created a new position, Director of Faculty Development Programs, and Dr. Martin van der Vyver (Sunnybrook

Health Sciences Centre), has been appointed. A new “First Year Faculty Experience Program” has been created, and will commence operation in September of 2010. All new faculty (two years or less service to the University) will be facilitated to attend on-campus monthly sessions over the course of eight months.

In November 2009, the University department organized Faculty Development Day 2009 at the 89 Chestnut Residence and Conference Centre. Over 100 of our faculty and fellows attended this event. Further details are available in this report. The growth and further development of this important event is a key priority.

Additional awards to recognize outstanding teaching contributions have also been created, both in the university departments and the hospitals. These include the Interprofesional Teaching Award and the award for Best Oral Presentation at the annual Faculty Development Day event. In addition, the first biennial Faculty Recognition Event was held at the Faculty Club, University of Toronto, on October 30, 2009. Over 55 of our faculty members were honored and thanked for their long-service to the university department. In addition, faculty who achieved academic promotion or received teaching or other significant awards in 2009 received formal acknowledgement for their outstanding achievements. The next such event will be held in October 2011 (see further details on page 9).

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: TEACHING PROGRAMS

In 2009-2010, efforts to better understand our recruitment strengths, the needs of learners and future opportunities were begun. This includes the operationalization of a Graduate Exit Survey for our residents, and investigation of the needs of our fellows. Research on how to best implement formal mentoring programs for our learners as well as the potential for a global health and social responsibility program in anesthesia are also underway. For further details, please see the reports provided by our education Directors.

PRIORITY 5: RESEARCH

In 2009, the department implemented a new, competitive, peer-reviewed Merit Awards program to fund time through the practice plans for our researchers to conduct academic activities. Our goal is to facilitate world-class research that has both translational and global impact. Our successes in this area are outlined in the report provided by Dr. David Mazer, Vice Chair of Research.

In 2010, we ran a special merit awards competition for our new investigators (defined as a full-time faculty appointment in the UT department for three years or less). The recipients of all merit awards are listed in this report. Our second biennial competition will be held in 2011. In addition, a new major new, competitive, one-time-only, “Multicentre Inter-Hospital Clinical Trials Grant Competition” will be held in 2011. This competition will provide seed funding for a major clinical trial led by full-time faculty members in our department. The goal is to support high-impact, world-class research that will attract additional, substantial, peer-reviewed operating grant funding.

Plans to redevelop the CIP Program and provide additional mentorship opportunities for our new faculty members are also underway.

RECOGNITION OF EXCELLENCE: HONORS, AWARDS, CHAIRS AND PROMOTIONS

The following University department awards were presented at the 31st Annual Shields Research Day 2010:

- The *Dr. R.J. Byrick Award* recognizes the best fellow's research paper presented at the Annual Shields Research Day: **Dr. Shivananda Nadiminti** (Fellow, Women's College 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: **Dr. Mostafa El-Beheiry** (Graduate Student, St. Michael's Hospital)
- The *Dr. Hynek Rothbart Award* for the best paper presented by a Resident at the Annual Shields Research Day: **Dr. Rachel Meyer** (Resident, PG-4, Mount Sinai Hospital)
- The *Thomas Donald Hammell Memorial Award in Anesthesia*, is awarded in recognition of outstanding contributions to the Residency Program, as chosen by other residents: **Dr. John Hanlon** (Resident, PG-5)
- The *UT Anesthesia Best Shields Day Poster Award*: **Dr. Julia Voigtlaender-Bolz** (Fellow, St. Michael's Hospital)
- The *Dr. Evelyn Bateman Award* is awarded in recognition of excellence in anesthesia at the undergraduate level: **Robert Bechamp** (Undergraduate MD, Year 4, Fitzgerald Academy, University of Toronto)

The following University department teaching awards were also bestowed in 2009-2010:

- The *Dr. John Desmond Award* recognizes excellence in clinical teaching of undergraduate students: **Dr. Isabella Devito** (Assistant Professor, Mount Sinai 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. Jeffrey Wassermann** (Assistant Professor, St. Michael's 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. Annette Vegas** (Associate Professor, UHN-Toronto General Hospital)
- The new Interprofessional Teaching Award recognizes outstanding teaching both within and outside of the anesthesia community. The inaugural award was presented to **Dr. Pam Morgan** (Professor, Women's College Hospital).



The winner of the Laws Travel Fellowship 2010 was **Dr. Sinziana Avramescu** (PGY3 Resident). Tuition awards for our residents and fellows – to fund graduate level education programs - were also presented to **Drs. Kyle Kirkham, Paula Meyler, James O’Leary, Saroo Sharma and Mandeep Singh**.

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 Montreal, Quebec, June 2010:

CAS/Abbott Laboratories Ltd Career Scientist Award in Anesthesia

Dr. Marcin Wasowicz

“Expanding the role of the anesthesiologist beyond the operating room: 1. The association between platelet inhibition and major adverse cardiac events in patients undergoing non-cardiac surgery after previous percutaneous coronary intervention 2. Use of volatile anesthetics within intensive care setting. An assessment of the clinical application of pharmacological post-conditioning and novel approach for post-operative sedation”

Canadian Anesthesiologists’ Society Research Award

Dr. Kong Eric You-Ten (Co-investigators: Drs. Catherine Wong, Christian Arzola, Naveed Siddiqui and Zeev Friedman)

“The impact of simulation on the proficiency of performing cricothyrotomy on a hybrid porcine larynx-high fidelity patient simulator”

Dr. Earl Wynands/Fresenius Kabi Research Award

Dr. Beverley Orser (Co-investigators: Drs. David Mazer, Irina Lecker, and Xuanmao Chen)

“Seizures associated with antifibrinolytics: Mechanisms and treatment strategies”

CAS/GE Healthcare Canada Research Award in Perioperative Imaging

Dr. Anahi Perlas (Co-investigators: Drs. Maria Cino, Louis Liu, Vincent Chan and Nicholas Mitsakakis)

“Bedside ultrasound assessment of gastric volume: Validating a mathematical model using gastroscopic examination”

Richard Knill Competition, 1st place:

Mr. Albert Tsui (Co-investigators: Drs. Neil Dattani, Philip Marsden, David Mazer, Mostafa El Beheiry, and Gregory Hare)

“Methemoglobin as a potential biomarker for anemic stress: a role of neuronal nitric oxide synthase in mice”

Best Poster – Education and Simulation in Anesthesia

Dr. Sylvain Boet (Co-investigators: Drs. Dylan Bould, Heinz Bruppacher, Deven Chandra and Viren Naik)

“Self-debriefing versus instructor debriefing: A prospective randomized trial.”

Best Poster – Obstetric Anesthesia

Dr. Aleksandra Dlacic (Co-investigators: Drs. Luis Furtado, Clarita Margarido, Mrinalini Balki and Jose Carvalho)

“The epidural electric stimulation test does not predict labor epidural analgesia patterns”

Congratulations also to 2 of our residents who presented in the Residents’ Competition:

Dr. Mandeep Singh (Co-investigators: Drs. Peter Liao, Saif Kobah, Hisham Elsaid, Duminda Wijeyesundera and Frances Chung)

“Proportion of undiagnosed obstructive sleep apnea in a surgical population”

Dr. Mark McVey (Co-investigators: Drs. Marcin Wasowicz, Terrence Yau and Keyvan Karkouti)

“Do high FFP: RBC ratios reduce mortality in cardiac surgery?”

In addition, including Dr. Tsui above, 4 of the 6 Richard Knill Competition presentations were from UofT:

Dr. Finola Naughton (Co-investigators: Drs. Duminda Wijeyesundera, Gordon Tait and Scott Beattie)

“ACE inhibitors reduce 30 day mortality after non-cardiac surgery”

Dr. Christoph Ellenberger (Co-investigators: Drs. Gordon Tait, Nicholas Mitsakakis and Scott Beattie)

“Chronic perioperative beta blockade is superior to acute postoperative beta blockade”

Dr. Peter M. Spieth (Co-investigators: Drs. Alysson Carvalho, Andreas Güldner, Michael Kasper, Stephanie Spieth, Stefan Uhlig, Paolo Pelosi, Haibo Zhang, Thea Koch and Marcelo Gama de Abreu)

“Pressure support ventilation improves lung protection and oxygenation as compared to pressure controlled ventilation in a porcine model of experimental lung injury”

DEPARTMENTAL MERIT AWARDS: 2009-2011 CYCLE

The following individuals have received competitive peer-reviewed merit awards through the UT Department of Anesthesia for the period 2009-2011. The next competition will be held in early 2011.

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
Scott Beattie	UHN-Toronto General Hospital	Perioperative outcomes research program	\$ 60,000
David Mazer	St. Michael's Hospital	Translational studies of mechanisms of renal dysfunction following cardiopulmonary bypass	\$ 40,000
Andrew Baker	St. Michael's Hospital	Analysis of shockwave blast parameters on cytoskeletal alterations and neuronal function	\$ 40,000
Keyvan Karkouti	UHN-Toronto General Hospital	Advance targeted transfusion in anemic cardiac surgical patients for kidney protection	\$ 40,000
Joseph Fisher	UHN-Toronto General Hospital	Translation of new noninvasive monitoring techniques from the bench to the bedside	\$ 40,000
Greg Hare	St. Michael's Hospital	Characterizing physiological and cellular mechanisms which reduce brain injury and promote survival	\$ 40,000
George Djaiani	UHN-Toronto General Hospital	Reducing delirium after cardiac surgery: A multifaceted approach of perioperative care	\$ 40,000
Pamela Morgan	Women's College Hospital	Obstetric team training and surgical safety checklist introduction	\$ 40,000
Pam Angle	Women's College Hospital	Multi-centered RCT examining the effect of small vs. large Tuohy-type epidural needles on PDPH	\$ 40,000

Research Merit Awards continued.....

Recipient	Hospital	Project Title	Award Value/ Annum
Marcin Wasowicz	UHN-Toronto General Hospital	Use of volatile anesthetics for ICU sedation and platelet function in post-PCI patients	\$ 40,000
Richard Brull	UHN-Toronto Western Hospital	Femoral nerve block after total knee arthroplasty: A randomized placebo-controlled double-blind trial	\$ 40,000
Rita Katznelson	UHN-Toronto General Hospital	Melatonin administration and postoperative delirium	\$ 20,000
Jean Wong	UHN-Toronto Western Hospital	Efficacy of intraoperative topical application of tranexamic acid versus placebo	\$ 20,000
Eric You-Ten	Mount Sinai Hospital	Preoperative noninvasive computer tomography coronary angiogram in cardiac risk stratification	\$ 20,000
Zeev Friedman	Mount Sinai Hospital	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?	\$ 20,000

EDUCATION AND CPA MERIT AWARDS:

Recipient	Hospital	Project Title	Award Value/ Annum
Eric You-Ten	Mount Sinai	Development and integration of a comprehensive airway course in the Anesthesia residency curriculum	\$ 40,000
Ludwik Fedorko	UHN-Toronto General Hospital	Bar code aided drug verification process during medicating patients in the Operating Room	\$ 40,000
Marianne Graham	Sunnybrook Health Sciences Centre	University of Toronto anesthesia curriculum review	\$ 40,000
Sharon Davies	Mount Sinai Hospital	Accredited continuing education website	\$ 20,000
Jordan Tarshis	Sunnybrook Health Sciences Centre	The development of a national simulation curriculum for postgraduate training in Canada	\$ 20,000
Philip Peng	UHN-Toronto Western Hospital	Education in chronic pain	\$ 20,000
Richard Cooper	UHN-Toronto General Hospital	A structured approach to training in flexible bronchoscopic intubation	\$ 20,000
Fiona Campbell	The Hospital for Sick Children	The SickKids Pain Centre - first steps	\$ 20,000
Simon Abrahamson	St. Michael's Hospital	Evaluation of a new media-rich simulation based virtual technology for learning in critical care	\$ 20,000
Scott Beattie	UHN-Toronto General Hospital	Perioperative clinical anesthesia information system (CAIS)	\$ 20,000

Education and CPA Merit awards continued.....

Massimiliano Meineri	UHN-Toronto General Hospital	Virtual cardiac imaging	\$ 20,000
Annette Vegas	UHN-Toronto General Hospital	Cardiac anesthesia fellows' manual	\$ 20,000

NEW INVESTIGATORS MERIT AWARDS: 2010-2011

During the Spring of 2010, the university department ran a special, one-time-only competition to fund the research activities of our new faculty investigators (defined as a full-time UT academic appointment for three years or less). The recipients of these awards were:

Recipient	Hospital	Project Title	Award Value
Ki Jinn Chin	UHN-Toronto Western Hospital	Ultrasound-assisted vs. landmark-guided spinal anesthesia in patients with difficult anatomy	\$ 30,000
Hance Clarke	UHN-Toronto General Hospital	The phenomics and genomics of clinically relevant chronic postsurgical pain	\$ 30,000
Brian Cuthbertson	Sunnybrook Health Sciences Centre	A pragmatic multi-centre randomized controlled trial of fluid loading in high-risk surgical patients	\$ 30,000
Megan Hayter	St. Michael's Hospital	The effect of mental practice on anesthesia crisis resource management	\$ 30,000
Elod Szabo	The Hospital for Sick Children	Mechanism of voltage-gated Na channel (Nav) related cardiomyopathy	\$ 30,000
Gail Wong	The Hospital for Sick Children	Efficacy of l-carnitine in prevention and treatment of bupivacaine-induced cardiotoxicity in rats	\$ 30,000



ADDITIONAL AWARDS AND HONORS

Finally, we are pleased to report the following honors and awards, received by our faculty members in 2009-2010:

Simon Abrahamson (Associate Professor, St. Michael's Hospital)

- John Granton Critical Care Fellow Teaching Award, University of Toronto, 2010

Andrew Baker (Professor, St. Michael's Hospital)

- Michael Goldberger Award of Excellence, International Neurotrauma Society, Santa Barbara, California, 2009

Mrinalini Balki (Associate Professor, Mount Sinai Hospital)

- Zuspan Award for Best Multidisciplinary Contribution to the 42nd Annual Meeting of the Society for Obstetric Anesthesia and Perinatology, San Antonio, Texas, May 2010
- Research in Education Award, 42nd Annual Meeting of the Society for Obstetric Anesthesia and Perinatology, San Antonio, Texas, May 2010

Robert Byrick (Professor, St. Michael's Hospital)

- Art Dunn Award for Postgraduate Teaching, Toronto, Ontario, June 2010

Jose Carvalho (Associate Professor, Mount Sinai Hospital)

- Best Paper Award in Obstetric Anesthesia, Canadian Anesthesiologists' Society Annual Meeting, Montreal, Quebec, June 2010

Vincent Chan (Professor, UHN-Toronto Western Hospital)

- AAPM/Pfizer Visiting Professorships in Pain Medicine Award, February 2010
- President, American Society of Regional Anesthesia and Pain Medicine, 2009-2011

Frances Chung (Professor, UHN-Toronto Western Hospital)

- Fellowship Teaching Award, Department of Anesthesia, Mount Sinai Hospital-University Health Network, 2010

Sharon Davies (Associate Professor, Mount Sinai Hospital)

- Continuous Professional Educational Development Award, Department of Anesthesia, University Health Network and Mount Sinai Hospital, May 2010

Isabella Devito (Assistant Professor, Mount Sinai Hospital)

- Dr. John Bradley Award for Excellence in Teaching, Department of Anesthesia, University Health Network and Mount Sinai Hospital, May 2010

Ann Grise (Assistant Professor, UHN-Toronto General Hospital)

- Honor Your Hero Award, University Health Network for Excellence in Patient Care, 2010

Helen Holtby (Assistant Professor, The Hospital for Sick Children)

- Fellows Teaching Award, The Hospital for Sick Children, June 2010

Vince Hughes (Assistant Professor, St. Michael's Hospital)

- Art Dunn Award for Undergraduate Teaching, St. Michael's Hospital, June 2010

Darryl Irwin (Lecturer, Mount Sinai Hospital)

- Wightman-Berris Individual Teaching Award in Undergraduate Teaching, April 2010

Joel Katz (Professor, UHN-Toronto General Hospital)

- Canada Research Chair, CIHR Tier 1 Canada Research Chair in Health, 2010

Joseph Kay (Assistant Professor, Sunnybrook Health Sciences Centre)

- Peters-Boyd Academy Continuing Education Award for excellence in Course Coordination and excellence in Continuing Education Teaching, May 2010

Claude Laflamme (Assistant Professor, Sunnybrook Health Sciences Centre)

- G.B. Rosenfeld Poster Award for Best MHS/ MMI/ MHI Poster, Annual Research Day, Health Policy Management and Education, University of Toronto, May 2010
- Maureen Dixon Memorial Award for Best Community-Based Poster, Health Policy Management and Evaluation, University of Toronto, May 2010

Paul McHardy (Lecturer, Sunnybrook Health Sciences Centre)

- Best Clinical Teacher (Regional Anaesthesia), Department of Anaesthesia, Holland Orthopaedic and Arthritic Centre, January 2010

Patricia McNama (Assistant Professor, UHN-Toronto General Hospital)

- University Health Network and Mount Sinai Hospital Department of Anesthesia Teaching Award for Undergraduate Teaching, 2009-2010

Claire Middleton (Assistant Professor, UHN-Toronto General Hospital)

- Wightman-Berris Academy Anderson Award for her contributions to Program Development and Innovation, April 2010

Pamela Morgan (Professor, Women's College Hospital)

- Dave Davis Continuing Education and Professional Development Research Award, University of Toronto, December 2009

Gerald O'Leary (Associate Professor, UHN-Toronto General Hospital)

- Wightman-Berris Individual Teaching Award for Health Profession Programs, April 2010

Philip Peng (Associate Professor, UHN-Toronto Western Hospital)

- Excellence in Interprofessional Pain Education Award, Canadian Pain Society, May 2010

- Dr. David Bevan Award for Excellence in Interprofessional Education, Department of Anesthesia and Pain Management, University Health Network and Mount Sinai Hospital, April 2010

Anahi Perlas (Assistant Professor, UHN-Toronto Western Hospital)

- Award for Excellence in Postgraduate Teaching, Department of Anesthesia and Pain Management, University Health Network and Mount Sinai Hospital, May 2010

Brian Pollard (Associate Professor, St. Michael's Hospital)

- William Noble Award for Fellow Teaching, St. Michael's Hospital, June 2010

Lawrence Roy (Associate Professor, The Hospital for Sick Children)

- Honorary Member, Association of Paediatric Anaesthetists, Association of Anaesthetists of Great Britain and Ireland and the Association of Paediatric Anaesthetists (Distinction, Specialty: pediatric anesthesiology)

Peter Slinger (Professor, UHN-Toronto General Hospital)

- Francis "Joe" Dannemiller Memorial Award for Educational Excellence in Anesthesiology, Dannemiller Education Foundation, San Antonio, Texas, April 2010

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

- Critical Care Medicine Teaching Award, UHN-Toronto General Hospital, Interdepartmental Division of Critical Care Medicine, University of Toronto, June 2010

Donna Stewart (Professor, UHN-Toronto General Hospital)

- Award of Honor for International Women's Health, CES University, Colombia, 2010
- Professor of Women's Health, King Saud University, Riyadh, Saudi Arabia, 2009

David Wong (Associate Professor, UHN-Toronto Western Hospital)

- First Prize, Scientific Abstracts oral presentation, Annual Society for Airway Management Meeting, "Use Of Manometry for Laryngeal Mask Airway Reduces Postoperative Pharyngolaryngeal Morbidity", Las Vegas, Nevada, September 2009
- Third Prize, Scientific Abstracts oral presentation, Annual Society for Airway Management Meeting, "Safety, Efficacy, and Utility of the New LMA Supreme Versus the LMA Proseal - A Randomized Controlled Trial", Las Vegas, Nevada, September 2009

Eric You-Ten (Assistant Professor, Mount Sinai Hospital)

- Canadian Anesthesiologists' Society Research Award, June 2010

FACULTY PROMOTIONS AND RECOGNITION

ACADEMIC PROMOTIONS: JULY 2009

We are very pleased to announce the following academic promotions, effective July 1, 2009:

To the rank of Full Professor:

- Dr. David McKnight, St. Michael's Hospital
- Dr. Haibo Zhang, St. Michael's Hospital

To the rank of Associate Professor:

- Dr. Richard Brull, UHN-Toronto Western Hospital
- Dr. Fiona Campbell, The Hospital for Sick Children
- Dr. Sharon Davies, Mount Sinai Hospital
- Dr. Zeev Friedman, Mount Sinai Hospital
- Dr. Igor Luginbuehl, The Hospital for Sick Children
- Dr. Karen McRae, UHN-Toronto General Hospital
- Dr. Basem Naser, The Hospital for Sick Children
- Dr. Brian Pollard, St. Michael's Hospital
- Dr. Annette Vegas, UHN-Toronto General Hospital

To the rank of Assistant Professor:

- Dr. Tara Der, The Hospital for Sick Children (effective October 2009)

INAUGURAL FACULTY RECOGNITION EVENT 2009

On October 30, 2009, the university department held its first Faculty Recognition Event at the Faculty Club, University of Toronto. This was a very special evening because it acknowledged the contributions over many years of very special people, the long serving and outstanding faculty in the Department of Anesthesia. Faculty members who have served for twenty years or more as well as those who have received important teaching awards and university promotions, attended along with their guests and were addressed by Professor Cheryl Misak, Vice-President and Provost of the University of Toronto, and by Dean Catharine Whiteside of the Faculty of Medicine. Each faculty member – starting off with the longest serving – was then individually thanked and presented with a certificate of service in addition to a commemorative lapel pin. These elements are symbols, but very important symbols, of the outstanding contributions in terms of clinical teaching, research and above all exemplary patient care that our faculty have provided over many years and continue to provide. The evening was not without emotion as it was an immense and touching privilege to be able to thank so many wonderful colleagues who do such wonderful things.

In honor of this event, a special edition of The Morpheus Reporter – with biographies of each honoree, many written by our own residents – was produced. This newsletter can be found online at our website. We look forward to hosting the next event in 2011. That event will commemorate our faculty members, as well as the University of Toronto's 60th Anniversary.

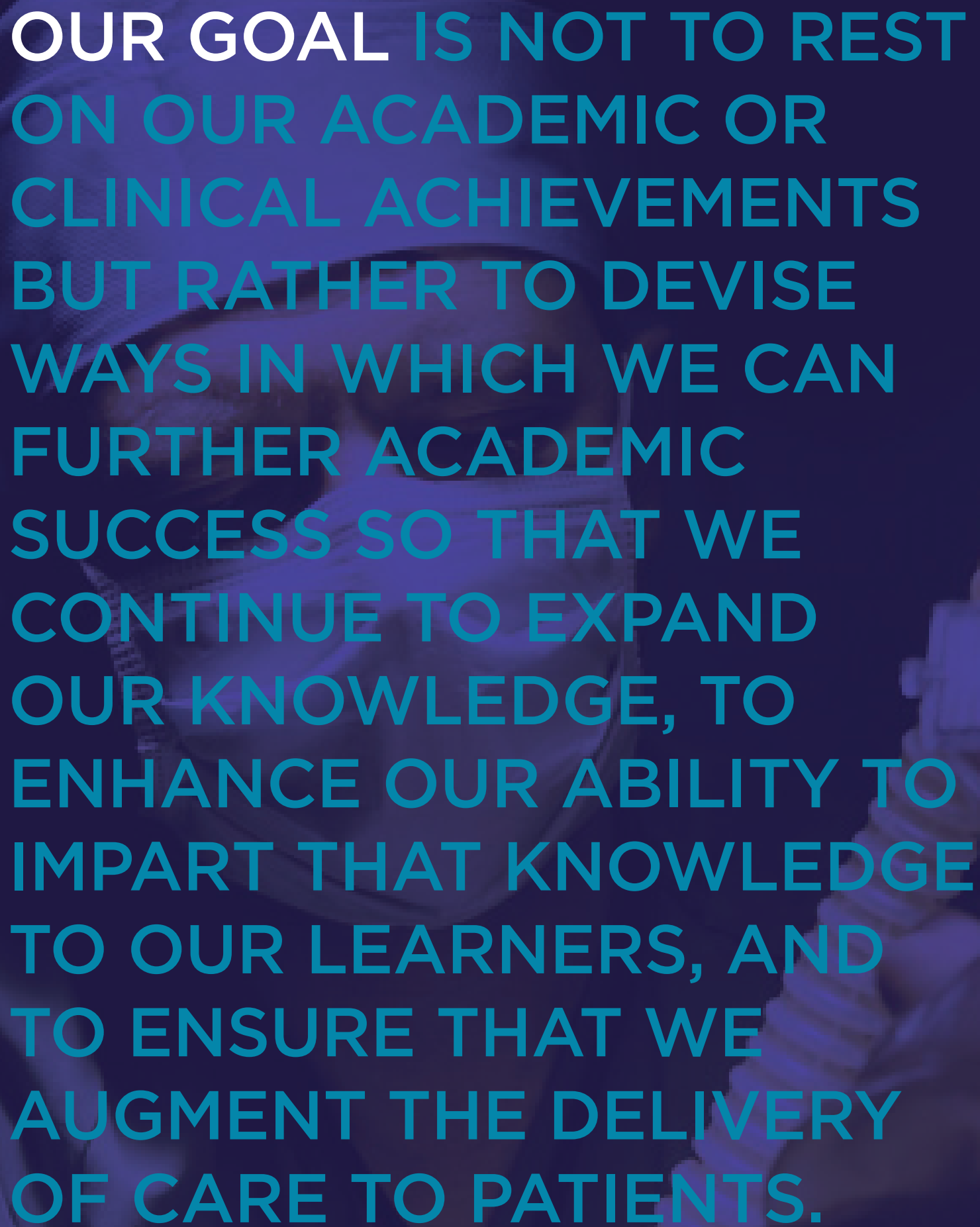
THE HONOREES AT THE INAUGURAL 2009 EVENT INCLUDED:

35 YEARS OR MORE: Dr. Peter John Bradwell (1973); Dr. Ron Crago (1974); Dr. Vincent Hughes (1974); Dr. Abraham Katz (1972); Dr. Bruce Knox (1974)

30 YEARS OR MORE: Dr. Alasdair Barclay (1979); Dr. Robert Byrick (1978); Dr. Wilfred Cassar-Demajo (1979); Dr. John DeLacy (1976); Dr. John Edmonds (1976); Dr. Terence MacKenzie (1976); Dr. John McLean (1975); Dr. Manharlal Ondhia (1978); Dr. Martyn Roberts (1977); Dr. William Stoyka (1975); and, Dr. Gordon Tait (1979)

25 YEARS OR MORE: Dr. Chidambaram Ananthanarayan (1980); Dr. Desmond Bohn (1980); Dr. Frances Chung (1981); Dr. Mary Ellen Cooke (1984); Dr. Richard Cooper (1981); Dr. Bruce Dodgson (1981); Dr. Gil Faclier (1980); Dr. Joseph A. Fisher (1981); Dr. Harry Foster (1984); Dr. Ann Grise (1980); Dr. Stephen Halpern (1984); Dr. Patricia Houston (1984); Dr. Michael Kolton (1982); Dr. Joseph Mallon (1984); Dr. David McKnight (1980); Dr. Elizabeth McLeod (1982); Dr. Pat McNama (1980); Dr. Beverly Morningstar (1983); Dr. J. Brendan Mullen (1984); Dr. Keith Rose (1980); and, Dr. W. Lawrence Roy (1980)

20 YEARS OR MORE: Dr. Simon Abrahamson (1987); Dr. Sue Belo (1988); Dr. Mark Bercovici (1986); Dr. Steven Berdock (1989); Dr. Bernard Braude (1989); Dr. Charles Cruise (1986); Dr. Sharon Davies (1988); Dr. Isabella Devito (1987); Dr. Helen Holtby (1986); Dr. Sandra Jelenich (1985); Dr. Elizabeth John (1985); Dr. Jane Kettles (1985); Dr. Jean Kronberg (1986); Dr. Peter Leung (1987); Dr. Bruce Macpherson (1988); Dr. David Mazer (1987); Dr. Glenn McGuire (1988); Dr. Pamela J. Morgan (1986); Dr. Emily Mosher (1989); Dr. Beverley Orser (1987); and, Dr. Lester Urbankiewicz (1989)



OUR GOAL IS NOT TO REST ON OUR ACADEMIC OR CLINICAL ACHIEVEMENTS BUT RATHER TO DEVISE WAYS IN WHICH WE CAN FURTHER ACADEMIC SUCCESS SO THAT WE CONTINUE TO EXPAND OUR KNOWLEDGE, TO ENHANCE OUR ABILITY TO IMPART THAT KNOWLEDGE TO OUR LEARNERS, AND TO ENSURE THAT WE AUGMENT THE DELIVERY OF CARE TO PATIENTS.

ENHANCING CLINICAL PRACTICE

Report from Dr. Gerald O'Leary

VICE CHAIR CLINICAL PRACTICE

Within the lexicon of children (and indeed adults), “payback” carries a specific meaning. “Giving back” (AKA getting even) is firmly rooted in perceptions of fairness and equality and is resistant to any attempted behavior modification based on external information that is at variance to their point of view. My response to benchmarking appears similar. When I find myself in the least desirable 10% section of respondents, then clearly the information was not collected accurately, the right questions were not asked or our clinical workload is unique so these results do not apply to us. These are only some of the excuses that I employ and sometimes they are even true. Interestingly I rarely resort to this approach when we fall in the desired upper 10%.

An adult variation of “payback” is outlined in recent reports by Canadian Academy of Health Sciences “The Return on Investments in Health Research: Defining the Best Metrics” 2009 (<http://www.cash-acss.ca/e/assessments/completedprojects.php>) and in Toronto Academic Health Science Network (TAHSN) 2010 Task Force on Valuing Academic Productivity Report. While discussing “payback model” “return on investment” and benchmarking they also highlight one simple concept; our need to ensure that the information collected is accurate, reproducible and has real outcome driven prediction in documenting the best value for the limited available health care delivery, research and educational dollars.

I complete 2-5 surveys daily and I suspect like many the diligence I apply to accurately complete them is variable. Of course the results compiled and the conclusions drawn cannot reflect this. So how does one assign weight to data that is collected and displayed? Hopefully the right balance of indicators and metrics used in combination may be an effective measure of quality or impact for the relevant domain being evaluated.

The MOHLTC public website (http://www.health.gov.on.ca/patient_safety/media/ps_med.html) reports performance metrics at an individual hospital level. As a health care user rather than provider, I may not appreciate the subtleties of the information outlined among the cacophony of medical abbreviations CLI, VAP, MRSA, etc but I would certainly be disturbed to note that only 25% of health care workers washed their hands both before and after patient contact. While this has now improved to over 75% in most centers, it does not highlight that physicians fall predominately to one side of the bell curve and are among the most resistant to change (even with a recorder standing beside them). To change suboptimal habits of a lifetime requires identifying the problem and then allowing the individual a reason to change. My suggestion to a major manufacturer of hand cleanser is that they add a green dye to the first solution for use before initial patient contact and a neutralizer in the second solution to use when leaving the patient. This gives a “good to go” visual cue of green while with the patient but not after or between patients.

In anesthesia we take pride in being patient safety advocates in the delivery of care to each patient. The introduction of end tidal capnography into our routine practice was linked with a marked reduction in unrecognized esophageal intubation. Routine perioperative pulse oximetry allows reliably detection and treatment of hypoxemia. As mortality directly related to anesthesia is uncommon, a logical extension is a shift of focus from mortality reduction to amelioration or morbidity, especially when faced with a projected older patient demographic



In anesthesia we take pride in being patient safety advocates in the delivery of care to each patient.

(that will include me). The Duocheck scanner trialed at Toronto General Hospital for the last year has to a large extent reduced drug errors by ensuring that the correct medication is in the correct labeled syringe, thus preventing an otherwise undetectable error. Combined with an electronic anesthesia record that allows scanning of the medications (syringes) into the record before being administered IV to the patient, this allows detection of drug errors before they reach the patient. The reward for most patients is a marked reduction of drug errors from the normal incidence (1:1000). The reward for the anesthesiologist is an intuitive automated electronic record that facilitates accurate charting. The reward for administrators, clinicians, educators and researchers is accurately documenting how we actually provide care. If an agreed single electronic anesthesia system was applied across the University of Toronto hospitals, I think this would be change management at its best. No green hands, but excellent payback on investment that gets buy-in from all parties and by defining the natural history of our delivery of care, identifies areas for individual or system improvement to direct resources with follow up documentation as to whether this resulted in a positive change in clinical practice. Perhaps Yogi Bear was right all the time “you can observe a lot by just watching”.

CLINICAL STATISTICS: FULLY AFFILIATED HOSPITALS

For the period: July 1, 2009 to June 30, 2010

	TGH	TWH	MOUNT SINAI	WOMEN'S COLLEGE	SUNNYBROOK	ST. MICHAEL'S	HOSPITAL FOR SICK CHILDREN	TOTAL - ALL SITES
General Anesthetics:	7,458	5,629	8,915	3,883	9,765	15,005	18,424	68,989
Regional Anesthetics:	79	25,231	6,625	141	2,162	2,214	17	36,469
Deliveries:	n/a	n/a	6,584	3,380*	n/a	3,116	N/A	13,080
Epidurals/spinals:	698	594	6,474	1,939*	2,715	2,181	301	14,902
Caesarian sections:	n/a	n/a	2,310	1,267*	n/a	869	N/A	4,446
Caesarian section rate:	n/a	n/a	35%	37.5%*	n/a	27.9%	N/A	33.46%
Pain clinic cases:	n/a	299	1,610	429	4,408	2,132	466	9,344
Acute pain service:	3,688	2,426	2,547	102	5,300	4,447	1,094	19,604
ICU beds:	53	25	16	2	50	56	38	240

Note: * Women's College obstetrical cases (deliveries) are performed at Sunnybrook Health Sciences Centre



BUILDING UPON OUR EDUCATION MISSION

Report from Dr. Patricia Houston

VICE CHAIR EDUCATION

The UT Department of Anesthesia provides exemplary educational programs across the spectrum of undergraduate, graduate and continuing medical education and professional development. This is accomplished due to the commitment and dedication of our excellent teachers and the recognition of the value of their contribution to the academic achievements of our university department. All programs are undergoing review and regeneration — incorporating new innovative approaches to the delivery of curriculum and enhancement of the educational experience for all learners.

Undergraduate Education held a retreat this year and has embraced the recommendations of the Future of Medical Education in Canada Report. The CanMEDS roles are being integrated into the learning objectives of the program and into new, more learner-centered evaluation strategies. Future priorities for the program include development of interprofessional learning opportunities and incorporation of self-assessment opportunities for students. The redesign of the Faculty of Medicine Undergraduate Curriculum has presented challenges to the undergraduate program with the need to support a double cohort of students. This challenge has been ably met by expansion of the program at both the fully affiliated teaching sites and by the development of new partnerships with community sites.

The Postgraduate program continues to attract the best and the brightest recruits and has been successful in the introduction of a Clinical Investigator stream. Curriculum renewal is also a priority in the postgraduate program. Dr. Marianne Graham is leading this process and a complete restructuring of the PGY1 curriculum has occurred with the introduction of new opportunities for simulation-supported learning. Dr. Mark Levine and the Postgraduate Committee have also supported the development of a Portfolio Project for the residents which encourages and supports reflective practices and emphasizes the non-medical expert CanMEDS competencies.

The international fellowship program is flourishing and the Fellowship Committee - led by Dr. Doreen Yee - has introduced standardized application and evaluation processes to the program. The development of a “Professor’s Rounds” for the fellows has showcased the multitude of faculty experts and has supported networking of the international fellows from twenty countries who are currently enrolled in the program.

Dr. Martin van der Vyver is providing leadership to faculty development programs within the department. The annual Faculty Development Day highlights the departmental scholarship in education and provides a perfect venue to recognize the department’s education champions and award winners. The Continuing Education programs under the direction of the committee chaired by Dr. Peter Slinger continue to expand in scope and impact. The committee is responsible for the fifteen different courses as well as a university-wide Grand Rounds webcast and online CME modules on the University website. These programs are nationally recognized for their excellence and well attended by local faculty and community and academic physicians from across Canada.

The education programs continue to grow, develop and innovate. Their success is the result of the overwhelming commitment of the faculty and chair to the importance of education as a pillar of academic excellence.



The Postgraduate program continues to attract the best and the brightest recruits and has been successful in the introduction of a Clinical Investigator stream.

OUR UNDERGRADUATE EDUCATION PROGRAMS

Report from Dr. Isabella Devito

DIRECTOR UNDERGRADUATE EDUCATION PROGRAM

The 2009-2010 academic year was an extremely busy and productive year for the Undergraduate program.

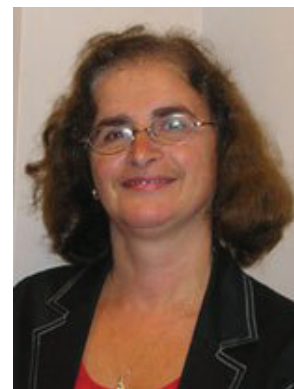
During this academic year, the UT Faculty of Medicine redesigned the Medical School curriculum for both preclerkship and clerkship. As a result, I am pleased to report that the core rotation of Anesthesia will be moved into the third year of clerkship as a full two week rotation, starting in the 2010-2011 academic year. This represents a wonderful new opportunity for Anesthesia as a specialty as it allows undergraduate MD students to gain exposure to our specialty prior to the CaRMS matching process. The Anesthesia clerkship rotation has been rescheduled to rotate in an eight-week block with Otolaryngology, Ophthalmology and Emergency Medicine. The first four weeks will include Anesthesia, Otolaryngology and Ophthalmology, followed by four weeks of Emergency Medicine. As a result, we will have third year students for four weeks, followed by a four-week period with no students where we will be able to focus on our elective students.

The reassignment to third year was certainly welcomed; however, it is anticipated that this will create a major challenge with the scheduling of students in the 2010-2011 academic year as we will have a double cohort of students for one year only. In 2010-2011, we will have both third and fourth year students rotating through Anesthesia at the same time, for a total of 452 students in that year. This will be the largest number of students rotating through Anesthesia in Canada. To assist with the double cohort, three community hospitals were approached: Trillium Health Centre, St. Joseph's Hospital Toronto, The Scarborough Hospital (both the Birchmount and Grace sites). These hospitals graciously agreed to help out for the following academic year. Drs. El Beheiry, Lilker, Panos and Talmeister will take on leadership roles as site coordinators at their respective hospitals. As well, Dr. James Robertson agreed to take on students at The Hospital for Sick Children. This is anticipated to help dramatically with our increased student numbers next year.

Another initiative introduced to assist with the double cohort was a second site coordinator at each teaching hospital—one for the fourth-year students and one for the third-year students – for the 2010-2011 academic year. With the integration of four new community hospitals into our infrastructure, one of our key challenges will be to deliver the same curriculum to all students. We have initiated a dialogue with Telemedicine on methods to accomplish this.

With a new medical school curriculum, it was necessary to reevaluate our curriculum. The very first Undergraduate Curriculum Retreat was held in April 2010. Approximately fifteen faculty members attended, along with a Community Hospital representative, our third-year medical student representative and our PGY1 member. Dr. Houston presented her "Vision for Undergraduate Education". With the recent release of the report "Future of Medical Education in Canada (FMEC): A Collective Vision for MD Education", this was a perfect opportunity to revise our curriculum using the recommendations as guidelines. Recommendations from the retreat include:

- Replace seminars with self-assessment modules;
- Redevelop the formal teaching component of Simulation Day;
- Incorporate the Interprofessional Education (IPE) during Simulation Day;



During this academic year, the UT Faculty of Medicine redesigned the Medical School curriculum for both preclerkship and clerkship.



- Reformat our core rotation objectives into the CanMEDS roles;
- Reevaluate our core objectives, addressing both the FMEC and enabling recommendations;
- Provide additional opportunities for faculty development.

To date, we have reformatted our objectives into the CanMEDS format and reevaluated our core medical expert objectives. It is anticipated that for the academic year 2010-2011 students will be examined and evaluated on all pertinent roles, not just medical expert. Dr. Anita Sarmah and Ms. Agnes Ryzynski have begun to develop a self-assessment simulation module that would assist in incorporating a blended learning model for Simulation Day. This module is anticipated for 2011.

With the new medical school curriculum, Anesthesia has been invited to participate in the development of an integrated OSCE. Two OSCE examinations will occur in third year. Dr. Ryan Mai has agreed to be our representative on this committee. This is a new initiative for Anesthesia as we have not been involved in OSCE examinations in the past.

While planning and preparing for our double-cohort year has been a high priority this academic year, we have continued to contribute towards all years of medical education. Our faculty continue to be involved in the admission process with file reviews and interviewing. We continue to have a strong presence in the Preclerkship with ASCM (Art and Science of Clinical Medicine) I and II, DOCH (Determinants of Community Health) II and Foundations of Medical Practice. Our electives program, under the leadership of Dr. James Robertson, continues to be extremely popular where demand exceeds available space.

Our Anesthesia Interest Group (AIG) continues to be extremely popular under the leadership of Dr. Darryl Irwin. Our annual Student Information Night during the fall of 2009 had one of the highest attendance rates to date. Dr. Irwin continues to provide airway workshops for the AIG. While other Interest Groups have folded, we are pleased that ours continues to grow.

The upcoming academic year will be one of the most challenging for our Undergraduate Program to date. With our forward planning and the continued support of our faculty members and hospital sites, we hope to make the transition from the old curriculum to the new seamless.

OUR POSTGRADUATE EDUCATION PROGRAMS

Report from Dr. Mark Levine

**DIRECTOR
POSTGRADUATE EDUCATION PROGRAM**

Anesthesia appears to have received increased attention from medical students as a possible career choice over the past few years. The number of applicants has increased and most of our new residents have come from the top one third of the students we considered for entry into our program. In addition, we have been able to recruit four residents into the Clinician Investigator Program over the past three years. This program is offered in conjunction with the CIP program at the University of Toronto and is designed to prepare residents for careers as clinician scientists. Residents in this program will complete an additional year of training and, in addition to their specialty designation, will receive a CIP certification from the Royal College of Physicians and Surgeons of Canada (RCPSC) upon successful completion of the program.

The nature of residency training in anesthesia has changed significantly in recent years. In addition to the exponential growth in knowledge, there has been a significant increase in the number of skills trainees need to acquire. The proliferation of new monitoring equipment, incorporation of technology such as ultrasound for the performance of regional anesthesia, and the insertion of invasive monitors has necessitated a significant review of the curriculum and how it is delivered.

In addition, graduating physicians are expected to be more than “just” medical experts in response to changes in societal needs and expectations. The CanMEDS framework, developed by the RCPSC, defines six other competencies (including communication, collaboration, management, advocacy, professionalism and scholarship) which physicians are expected to demonstrate on completion of training. All these must be incorporated into the training and evaluation of residents. These expectations coupled with a reduction in training hours due to concerns regarding patient and resident safety have resulted in a need to train residents more efficiently and effectively using innovative teaching methods.

Under the leadership of Dr. Marianne Graham, we are therefore in the process of revising the entire curriculum and the way it is delivered. The content, particularly that of the medical expert, will be guided by the recently completed, competency-based National Curriculum - a collaborative effort of anesthesia program directors across the country - while the delivery will be carried out by the multitude of content experts within our department.

The PGY1 curriculum has been completely revamped and expanded with increased utilization of low and high fidelity simulation to introduce junior resident to the basic and advanced concepts of airway management and vascular access acquisition in a safe (for both trainees and future patients) environment. This builds upon the introduction of a focused introduction to obstetrical anesthesia introduced in the previous year. In addition, there will also be a greater use of simulation and live models in the training of PGY2 residents in the use of ultrasound for regional anesthesia.

A very important component of any program is the provision of formative and summative evaluations for residents and teachers. All the major teaching sites now use an online daily evaluation system for both learners and supervisors. This has enabled us to collect information



The nature of residency training in anesthesia has changed significantly in recent years... there has been a significant increase in the number of skills trainees need to acquire.

regarding resident and teacher performance in a more timely fashion and to document these more effectively. The ultimate summative evaluation is the Royal College Examination process and I am pleased to report a 100% pass rate for all of our graduating residents in June 2010.

RESIDENTS 2009-2010

PGY5		
Maria Carmen Angeles	Jay Banerjee	Jasmine Cheung
Stephen Choi	Maneesh Desphande	Jerod Gollant
Ahmed Hamdy	John Hanlon	Megan Hayter
Michael Hiscox	Rob Kriz	Alison Ling
Rachel Martin	Nancy Moran	Philip Perna
Lisa Roberts	Hala Sunbul	Adrienne Vraets
Hamid Yarkandi	Hany Youssef	Darren Ezer
PGY4		
Abdi Abdulrahman	Tim Ararat	Andrew Borden
Monica Chuang	Abelina D'Costa	Ben Ari Fried
Diana Hayward	Terence Ip	Michael Kahn
Han Kim	Kyle Kirkham	Bobby Mehta
Rachel Meyer	Rachael Seib	Sharoo Sharma
Uma Shastri	Amy Trang	Darlene Weekes
Mohammad Yaseen		
PGY3		
Husni Alakkad	Asim Alam	Iryna Aleksandrova
Huong Cong	Shefali Dave	Genevieve Dupuis
Sherif Eskandar	Amy Fan-Lun	Rico Leung
Warren Luksun	Sheldon Lyn	Katherine Marseu
Paula Meyler	Oana Predescu	Ian Randall
Merita Simitciu	Mandeep Singh	Neilesh Soneji
Jurgita Treigys	Catherine Wong	Anita Rao
PGY2		
Alam, Fahad	Avramescu, Sinziana	Desai, Minal
Evangelista, Raymond	Fader, Michael	Farsi, Sara (Visa)
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
PGY1		
Boyd, Jennifer	Chau, Edmond	Flamer, David
Henry, Paul	Hurlburt, Lindsay	Kerelska, Tina
Khemani, Ekta	Koval, Joseph	Krishna, Arjun
Le, Nam	McVey, Mark	Mottiar, Miriam
Ramji, Karim	Surti, Meera	Tylee, Michael
Unger, Zoe	Waldman, Kyle	Yeung, Alex

OUR FELLOWSHIP PROGRAMS

Report from Dr. Doreen Yee

DIRECTOR FELLOWSHIP PROGRAMS

In the 2009-2010 academic year, almost 100 fellows from twenty countries came through our seven university hospital teaching departments at the UT Department of Anesthesia. The university Fellowship Program continues to evolve, in keeping with guidelines from the Faculty of Medicine's Fellowship Education Advisory Committee, and the office of Vice Dean of Postgraduate Education.

The Fellowship Committee worked on developing selection criteria for fellows to maximize the potential for a successful fellowship year. The online evaluations are working very well in the sites that have adopted them; there is more objective input from a larger number of faculty than before. Standard templates for fellowship goals and objectives, also based on CanMeds competencies, are now also available online from UT Postgraduate Medicine so that both fellow and faculty expectations can be clearly laid-out from the start. These will soon become part of the application package.

Our department offers a more diverse spectrum of specialty training than any other Canadian department, and even most other American schools. At last count, there were fourteen different kinds of fellowships, with the new Airway Fellowship being the latest addition. The cardiac, regional, obstetrical and pediatric anesthesia fellowships continue to be very popular. Some positions are filled-up a few years in advance. Further training in education has also become important, as evidenced by the three hospital sites that offer an Education fellowship, usually in conjunction with Anesthesia Simulation.

As in previous years, most fellows are involved in research of some kind to varying degrees. Fellows were responsible for more than half of the poster and oral presentations at the Annual Shields Research Day 2010. A significant number of these posters go on to become articles in peer-reviewed journals a year or two later, frequently with fellows as the first author. Each year, fellows present their work at meetings all over the world in their subspecialty areas.

A new series of lectures directed at fellows was launched at the beginning of 2010. As fellows' appointments are hospital-specific, their exposure to our university department can be quite limited. Professors' Rounds were designed to expose our fellows to the extensive wealth of knowledge and expertise that exists in our world-renowned anesthesia faculty. It also provides an opportunity for fellows from different sites to network with each other. The rounds for 2009-2010 are as follows:

Date	Topic	Speaker
February 22, 2010	Looking behind the data: Why trials of tight glycemic control in ICU are not so smart	Dr. Brian Kavanagh
March 22, 2010	Extubation of the difficult airway	Dr. Richard Cooper
April 19, 2010	Advances in lung isolation	Dr. Peter Slinger
May 31, 2010	Ultrasound assisted epidurals and spinals in obstetrics and other patients	Dr. Jose Carvalho

The first university Fellows' Exit Survey was launched this past year. The majority of the evaluations have been very positive, but this new initiative also helps us identify areas for improvement.



Our department offers a more diverse spectrum of specialty training than any other Canadian department, and even most other American schools.

A Fellowship Information night was held this year for our own residents. There has been a renewed interest recently in Canadian graduates in Fellowship training as positions in urban areas are becoming less available. This was also apparent at the first annual Fellowship Fair at the Canadian Anesthesiologists (CAS) meeting in Montreal (June 2010), where most of the Canadian university departments showcased the fellowship training available at their centers.

ANESTHESIA FELLOWS 2009-2010

The Hospital for Sick Children

Armstrong, James	United Kingdom	Broemling, Natasha	Canada
Doherty, Catherine	United Kingdom	Malavazzi, Marcella	Brazil
Matava, Clyde	Zimbabwe	O'Leary, James	Ireland
Simpson, Damian	New Zealand	Tanaka, Mitoshi	Japan
Wood, Carine	United Kingdom		

Mount Sinai Hospital

Arzola, Cristian	Chile	Barve, Ravindra	India
Chakravarty, Subrata	India	Chan, Chin-Wern	Australia
Desai, Devdatta	India	Doherty Anne	Ireland
Ganbou, Ali	Egypt	Khan, Asif	Pakistan
Mahmoud Shireen	Egypt	Margarido, Clarita	Brazil
Mikhael, Rafeek	Egypt	Ohashi, Yayoi	Japan
Short Jonathan	United Kingdom	Vaishnav, Vandana	India

St. Michael's Hospital

Blackstock, Murray	United Kingdom	Boet, Sylvain	France
Borges, Bruno	Brazil	Darby, Peter	Canada
Garavaglia, Marco	Italy	Garcia, Suzanna	Philippines
Gupt, Rajiv	Australia	Mathew, Aji	United Kingdom
McAuliffe, Naimh	Ireland	Nalla, Bhanu	United Kingdom
Papa, Fabio	Brazil	Sun, Keith	Canada
Voiglaender-Boltz, Julia	Germany		

Sunnybrook Health Sciences Centre

Afsari, Mahnaz	New Zealand	Hoskins, Jeff	New Zealand
Khanduja, Kristina	United Kingdom	Lynch, Johanne	Ireland
Mahon, Pdraig	Ireland	Mulchandani, Haresh	United Kingdom
Phua, Darren	Singapore	Restrepo, Carlos	Columbia

UHN-Toronto General Hospital

Ahmed, Ishtiaq	Ireland	Ali, Raed Al	Kingdom of Saudi Arabia
Calixto, Djanira	Brazil	Chelico, Lisa	Canada
Chandy, Tony	India	Ellenberger, Christoph	Switzerland
Galluzzo, Richard	Australia	Grobler, Christine	South Africa
Ip, David	Australia	Jaura, Amer	Ireland
Jerath, Angela	United Kingdom	Ju, Hui	China
Khan, Sofia	United Kingdom	Kilpatrick, Bruce	South Africa
Kitsao, Joyce	Kenya	Lai, Desiree	Switzerland
Lee, Corina	United Kingdom	Mahon, Pdraig	Ireland
Mondino, Michele	Italy	Pickworth, Thomas	United Kingdom
Saha, Chiranjeev	USA	Smith, Ian	New Zealand

Taam, Jason	Canada	Toppin, Jason	Jamaica
Vieira, Roberta	Brazil	Yee, May San	Canada
UHN-Toronto Western Hospital			
Bhatia, Anuj	Canada	Chong, Chin Ted	Singapore
Factor, Danielle	United Kingdom	Ghosh, Jayati Sinha	India
Khunein, Saleh	Saudi Arabia	Lee, Say Kiat	Singapore
Parrington, Simon	United Kingdom	Riazi, Sheila	Canada
Seet, Edwin	Singapore	Sivanaser, Vanitha	Malaysia
Subramanyam, Rajeev	India	Tan, Jyh Shen	Singapore
Vaishnav, Vandana	Ireland		
Women's College Hospital			
Al-Turkistany, Hanan	Saudi Arabia	Abdallah, Faraj	Lebanon
Banerjee, Arnab	United Kingdom	Nadiminti, Shivananda	India
Stocche, Renato	Brazil		



OUR CONTINUING EDUCATION PROGRAMS

Report from Dr. Peter Slinger

DIRECTOR CME/CPD PROGRAMS

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. It meets four times per year to discuss, plan and organize a number of continuing education initiatives. The committee endeavors to ensure that most Continuing Education activities qualify for University of Toronto sponsorship and are accredited learning activities.



COURSE DEVELOPMENT

Each year the committee supervises the Anesthesia Practice Meeting, under the co-direction of Drs. Lakshmikumar Venkatraghavan and Pamela Angle in 2009. This three-day course provides a combination of lectures, workshops and small group sessions for both Fellowship and GP Anesthetists. Over the past three 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 2009-2010

Course	Date(s)	Course Organizer
Regional Anesthesia and Pain Medicine	August 2009	Vincent Chan
Introductory Workshops for Ultrasound Guided Nerve Blocks	October 2009 and January 2010	Vincent Chan
Mount Sinai 2009 Obstetric Anesthesia Conference and Workshop	October 2009	Jose Carvalho
Hyperbaric Medicine	October 2009	Wayne Evans
Critical Care Canada Forum	October 2009	Brian Kavanagh
Anesthesia Practice	November 2009	Lakshmi Venkatraghavan
The Hospital for Sick Children Pediatric Anesthesia Conference	November 2009	Elizabeth McLeod
7 th Annual Perioperative Transesophageal Echocardiography Symposium	November 2009	Annette Vegas
UT Anesthesia Faculty Development Day	November 2009	Peter Slinger/Martin van der Vyver
Obstetric Anesthesia Day, Women's College Hospital	November 2009	Pamela Angle
Mendelsohn Lecture, Dr. Vincent Chan "The Renaissance of Regional Anesthesia"	November 2009	Mount Sinai Hospital
Toronto Anesthesia Practice, "Big and Beautiful"	November 2009	Mount Sinai Hospital
Ultrasound for Pain Medicine Workshop	January 2010	Philip Peng
Annual Marshall Lecture	February 2010	Brian Kavanagh
Tremblant Anesthesia Meeting	February 2010	Jordan Tarshis
Toronto Anesthesia Symposium, "Anesthesia and Outcomes"	April 2010	Peter Slinger

Annual Weber Lecture	May 2010	Beverley Morningstar
31 st Annual Shields Research Day	May 2010	Zeev Friedman
Great Canadian Fluid Debate	June 2010	Scott Beattie
The 8th International Conference on Mechanisms of Anesthesia (MAC2010)	June 2010	Beverley Orser
International Symposium for Ultrasound and Regional Anesthesia	June 2010	Vincent Chan

CITY WIDE ROUNDS

City-wide webcast and telecast pain/regional anesthesia rounds are organized by Dr. Joseph Kay four times per year.

WEB-BASED LEARNING

CME ONLINE ANESTHESIA ROUNDS

This program has been enlarged to eight educational modules. This program has been developed by Sharon Davies (MSH). These modules have been accredited by the University of Toronto CEPD Dept. for MainCert Category I credits and 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 UHN-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 Department for CME credits.

ANNUAL FACULTY DEVELOPMENT DAY 2009

On November 11, 2010, over 100 faculty and fellows of the University of Toronto, Department of Anesthesia, came together at the 89 Chestnut Residence and Conference Centre for our UT Anesthesia Faculty Development Day 2009 event. Chaired by Drs. Peter Slinger (UHN-Toronto General Hospital) and Martin van der Vyver (Sunnybrook Health Sciences Centre), this event featured introductory remarks by Dean Catharine Whiteside, and lectures by Dr. Donald Miller (University of Ottawa and Editor-in-Chief of the Canadian Journal of Anesthesia) on "The Evolution and Role of Medical Journals in Continuing Medical Education" and Dr. Karen Leslie on "What is Faculty Development, and why are you here?". Following a poster viewing session, our faculty members were able to attend one of six simultaneous sessions on the following topics:

- Time management (led by Dr. Melinda Solomon and Ms. Sheena Bhimji-Hewitt)
- Effective mentoring skills (led by Dr. Karen Leslie)
- Making learning stick (led by Dr. Brenda Mori)
- Authentic leadership (led by Dr. Susan Lieff)
- Time-out, checklists, etc.: New rules for engagement of the OR team (led by Dr. Irene McGhee)
- The challenging trainee (led by Dr. Najma Ahmed)

The breakout sessions were followed by oral presentations selected from amongst the top-ranked abstracts submitted for the event. Dr. Fiona Campbell's presentation was selected as the winner of the new "Best Oral Presentation" 2009 award.

This event received evaluations in the excellent (11.2% of respondents) to very good (80% of respondents) range. A summary of the evaluations received can be found on internal website.

This event is unique to our department, and we are naturally proud of this! Thank you to all of our participants and the organizers for making this event such a great success.

RESEARCH PROGRAMS

Report from Dr. David Mazer



VICE CHAIR RESEARCH

The Department of Anesthesia at the University of Toronto has had another very successful year in terms of research. We are fortunate to have an extraordinary group of scholarly investigators who are conducting groundbreaking translational research. These successes have helped to maintain our position as one of the top Anesthesia research institutions in the world. Our department ranks first of all Canadian Universities and of all Association of American Universities public institutions.

University of Toronto Field	G13 (Canada) Rank		AAU [†] Public Rank		AAU [†] All Rank		Background Info		Cit to Pub Ratio
	Publications	Citations	Publications	Citations	Publications	Citations	Pub #†	Cit #†	
All Sciences	1	1	1	1	2	3	37,266	330,606	8.9
Health and Life Sciences	1	1	1	1	2	3	28,423	269,253	9.5
Clinical Medicine	1	1	1	1	2	3	15,823	142,490	9.0
Anesthesiology	1	1	1	1	2	2	402	2,829	7.0

Data source: University Science Indicators 2009 Standard and Deluxe Editions, Thomson Reuters.

[†] Association of American Universities. For the present analysis, this group is supplemented with the Canadian G13 institutions (2 only are members) as well as the University of California at San Francisco.

In terms of publications and citations, our productivity is second only to Harvard University (see table).

ANESTHESIOLOGY: 2005 TO 2009

UNIVERSITY	# PUBLICATIONS
Harvard	485
TORONTO	402
Duke	220
MCGILL	220
Calif - San Francisco	215
Stanford	166
U Washington	165
BRITISH COLUMBIA	160
Johns Hopkins	153
U Penn	147
MONTREAL	143
Pittsburgh	131
Columbia	125
OTTAWA	122
Florida	119
Iowa	117
DALHOUSIE	110
Michigan	110

UNIVERSITY	# CITATIONS
Harvard	3,572
TORONTO	2,829
U Washington	2,011
Calif - San Francisco	1,723
Duke	1,662
Johns Hopkins	1,574
MCGILL	1,543
BRITISH COLUMBIA	1,232
U Penn	1,102
Florida	1,091
Yale	961
Stanford	915
MONTREAL	862
MCMASTER	852
Iowa	842
Michigan	835
Columbia	812
Calif - San Diego	784

MCMASTER	107
Yale	107
Calif - San Diego	102
Northwestern	85
ALBERTA	84
Washington U	72
Emory	68
Virginia	65
WESTERN ONT	65
Calif - Los Angeles	63
Chicago	59
Calif - Davis	58
Cornell	51
CALGARY	50
Rochester	48
Vanderbilt	46
Case Western Reserve	42
Wisc - Madison	42
New York U	39
Minnesota	38
Missouri Columbia	38
QUEEN'S	37
N Carolina - Chapel Hill	34
Penn State	34
Calif - Irvine	32
LAVAl	30

Northwestern	756
DALHOUSIE	740
OTTAWA	728
Pittsburgh	707
ALBERTA	664
Rochester	611
WESTERN ONT	603
Calif - Los Angeles	570
Washington U	484
Indiana	471
Emory	413
N Carolina - Chapel Hill	411
Virginia	396
Wisc - Madison	389
Vanderbilt	352
Chicago	319
Calif - Davis	313
CALGARY	257
QUEEN'S	255
Minnesota	235
Cornell	234
Arizona	228
LAVAl	217
Calif - Irvine	177
New York U	169
Missouri Columbia	168

Data source: University Science Indicators 2009 Deluxe Edition, Thomson Reuters.

Includes AAU and G13 universities with publications in anesthesia between 2005 and 2009, as well as the University of California at San Francisco

In 2009-2010, the University of Toronto as a whole was ranked 9th overall by Higher Education Evaluation and Accreditation Council of Taiwan (HEEACT) and 17th by the Times Higher Education Rankings. In both rankings, U of T led all Canadian universities.

The true strength of our research program is our dedicated and innovative faculty who pursue scientific excellence in the following areas:

- Ambulatory Care
- Chronic Pain
- Critical Care Medicine
- Innovations in Regional Analgesia
- Measuring Perioperative Outcomes and Improving Patient Safety
- Neuroscience and Mechanisms of Anesthesia
- Obstetric Anesthesia
- Perioperative anemia and blood transfusion
- Reducing Pain following Surgery
- Simulators and Human Performance

In partnership with our six affiliated hospitals and five research institutes, we continue to work towards our aim of being a world leader in the generation and dissemination of new knowledge related to anesthesia and perioperative medicine.

In the past year, we continued to implement our strategic plan. Our goal is world class research with translational potential and global impact. The internal peer review system for all grant applications has facilitated several successful grants. In 2010-2011, the Research-in-Progress Rounds will evolve into hospital-based meetings which are intended to nurture and enhance early stage research ideas. Inter-hospital research including multicenter U of T clinical trials is growing and a major initiative for funding such endeavors is being developed. Research by trainees and New Investigators is increasing, and an interim Merit Award awards competition for new faculty will be held in 2010-2011. For a complete listing of merit awards received under our two-year merit awards cycle, please see section above on “awards”. The next round of competitions for this biennial award will take place in early 2011.

In June 2010, under the leadership of Dr. Bev Orser, Toronto hosted the 8th International Conference on Mechanisms of Anesthesia, which brought together research leaders from around the world to discuss significant advances in our understanding of the mechanisms of anesthetics. This very successful event was attended by over 250 delegates from around the globe.

The detailed list of publications, grants, awards and presentations in this report reveals a vibrant, innovative and diverse community that is dedicated to excellence in research and knowledge translation related to anesthesia, pain, perioperative medicine, and critical care.

ANNUAL SHIELDS RESEARCH DAY 2010

DR. ZEEV FRIEDMAN, CHAIR, ANNUAL SHIELDS RESEARCH DAY 2010

On May 7, 2010, over 310 faculty, fellows, residents and affiliated staff of the University of Toronto, Department of Anesthesia, came together to celebrate the outstanding research and education projects which our colleagues and trainees engage in. This event was in fact held for the 31st time, although this was my first time as Chair of this very successful annual event. Clearly, the success and popularity of this event is a reflection of the fascinating cutting-edge research that was presented, as well as the excellent leadership provided by the previous Shields Day Chair, Dr. Guy Petroz (The Hospital for Sick Children).

In 2010, a total of 67 abstracts were submitted. Twenty-two of these were presented orally with the remainder presented as posters. Awards for the best presentations by residents, fellows and students as well as the new David Bevan Award for overall best poster were presented.

The Annual Shields Lecture was given by Dr. James Eisenach, Editor-in-Chief of *Anesthesiology*. Dr. Eisenach graciously noted that he seldom participates in an event of this caliber whereby the whole university department comes together to allow trainees to present their research, and to celebrate our colleagues’ research-related achievements on a broader level. The scope and quality of the research that we may sometimes take for granted was something he found to be remarkable.

All in all, we should be collectively proud of this wonderful day. Thank you to everyone who participated in this event, and to those who organized it.

PEER-REVIEWED PUBLICATIONS

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Abrishami A, Khajehdehi A, Chung F. A systematic review of screening questionnaires for obstructive sleep apnea. *Canadian Journal of Anesthesia* 57:423-438, 2010

Adudu OP, Le NH, Devito I, Campbell FA, Levine MF. Medical student impressions of anesthesia and anesthesiologists. *Canadian Journal of Anesthesia* 57:792-793, 2010

Ahmad F, Skinner H, Levinson W, Stewart DE. Perspectives of family physicians on computer-assisted health-risk assessments. *Journal of Medical Internet Research* 12:e12, 2010

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Antonelli M, Azoulay E, Bonten M, Chastre J, Citerio G, Conti G, De Backer D, Lemaire F, Gerlach H, Hedenstierna G, Joannidis M, Macrae D, Mancebo J, Maggiore SM, Mebazaa A, Preiser JC, Pugin J, Wernerman J, Zhang H. Year in review in Intensive Care Medicine 2009: Part II. Neurology, cardiovascular, experimental, pharmacology and sedation, communication and teaching. *Intensive Care Medicine* 36:412-27, 2010

Antonelli M, Azoulay E, Bonten M, Chastre J, Citerio G, Conti G, De Backer D, Lemaire F, Gerlach H, Hedenstierna G, Joannidis M, Macrae D, Mancebo J, Maggiore SM, Mebazaa A, Preiser JC, Pugin J, Wernerman J, Zhang H. Year in review in Intensive Care Medicine 2009. Part III: mechanical ventilation, acute lung injury and respiratory distress syndrome, pediatrics, ethics, and miscellanea. *Intensive Care Medicine* 36:567-84, 2010

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NON PEER-REVIEWED PUBLICATIONS

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Balki M, Kumar S, Williamson C, Castillo E, Money DM. Gastroenterology: Disorders of the Liver, Biliary System and Exocrine Pancreas. In Powrie R, Green M, Camann B (Eds.) *de Swiet's Medical Disorders in Obstetric Practice*. 5th Ed. Wiley-Blackwell: Oxford, UK, 2010

Bonin R, Orser BA, Mashour GA, Lydic R. Cellular and Molecular Effects of General Anesthetics in the Brain. In Mashour G, Lydic R (Eds.) *The Neuroscientific Foundations of Anesthesiology*. Oxford University Press: Oxford, UK, 2010

Brull R, Prasad GA, Chan VWS. Regional Anesthesia for Total Hip and Knee Arthroplasty: Is It Worth the Effort? In Wright JG (Ed.) *Evidence Based Orthopaedics—The Best Answers to Clinical Questions*. Saunders Elsevier: Philadelphia, PA, 2009

Cox PN, Dhanani, S. Infectious Syndromes in the Pediatric Critical Care. In Fuhrman B, Zimmerman J, (Eds.) *Pediatric Critical Care*. 4th Ed. Lippincott Williams and Wilkins: Philadelphia, PA, 2009

Crews J, Chan VWS. Perioperative Management of Patients and Equipment Selection for Neural Blockade. In Cousins M (Ed.) *Neural Blockade in Clinical Anesthesia and Pain Medicine*. 4th Ed. Lippincott Williams and Wilkins: Philadelphia, PA, 2009

Goldszmidt E. Pain relief in labor. In Farrugia M, Thomas T, Bernstein P (Eds.) *Canada's Pregnancy Care Book*. Robert Rose Inc., 2009

Jadad AR, Cabrera A, Lions RF, Martos F, Smith R. When People Live with Multiple Chronic Diseases: A Collaborative Approach to an Emerging Global Challenge. Granada: Andalusian School of Public Health, 2010

Katz J, Melzack, R. Psychological Aspects of Pain: Implications for Neural Blockade. In Cousins MJ, Carr D, Horlocker T, Bridenbaugh PO (Eds.) *Cousins and Bridenbaugh's Neural Blockade*. 4th Ed. Lippincott, Williams and Wilkins: Philadelphia, PA, 2009

Ma M, Slinger P. Anaesthesia for Lung Volume Reduction Surgery. In Wilkinson J, Pennefather SH, McCahon RA (Eds.) *Oxford Handbook of General Thoracic Anaesthesia*. Oxford University Press: Oxford, UK, 2009

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Pronovost A, Rubenfeld G. Quality in Critical Care. In Chiche JD, Moreno R, Putensen C, Rhodes A (Eds.) *Patient Safety and Quality of Care in Intensive Care Medicine*. Medizinisch Wissenschaftliche Verlagsgesellschaft, 2009

Simpson RS, Cox PN. End of Life Issues in Pediatric Critical Care. In Wyszynski D, Correa-Villasenor A, Graham T (Eds.) *Congenital Heart Defects: from Origin to Treatment*. Oxford University Press: Oxford, UK, 2010

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Wong GK, Barlow R. Anesthesia. In Dipchand A, Friedman J (Eds.) *The Hospital for Sick Children Handbook of Pediatrics*. 11th edition. Saunders Elsevier: Toronto, Ontario, 2009

INVITED LECTURERS

ANGLE, P

- **4th Toronto Anesthetic Practice Meeting, Annual Obstetric Anesthesia Day. Toronto, Ontario, November 2009**
“Regional anesthesia and the tattooed mama”
- **College of Family Physician’s Meeting. Toronto, Ontario, November 2009**
“Myths and truths about epidural analgesia”
- **Canadian Anesthesiologist Society Annual Conference. Montreal, Quebec, June 2010**
“Where’s the evidence? Fresh perspectives on evidence-based practice in obstetrical anesthesia”

ARZOLA, C

- **7th Annual Mount Sinai Hospital Obstetric Anesthesia Conference. Toronto, Ontario, October 2009**
“High dose opioid usage in pregnancy”
“Ultrasound in obstetric (needling techniques)” (Workshop)
- **Visiting Professor, State University of New York at Buffalo. Buffalo, New York, November 2009**
“Ultrasound guided epidural and spinal anesthesia lecture”
“Ultrasound for neuraxial blocks” (Workshop)
- **Toronto Anesthesia Symposium. Toronto, Ontario, April 2010**
“Aseptic technique for neuraxial anesthesia”
- **State University of New York at Buffalo. Buffalo, New York, May 2010**
“Ultrasound for regional anesthesia: Neuraxial blocks” (Workshop)
- **42nd Society of Anesthesia and Perinatology Meeting. San Antonio, Texas, May 2010**
“Ultrasound in obstetric anesthesia” (Workshop)

AVILA, A

- **Physiatry and Rehabilitation, City Grand Rounds Department, Sunnybrook Health Science Centre. Toronto, Ontario, September 2009**
“Sacroiliac joint complex pain disorders: Not just a pain in the butt”
- **Anesthesia/Intensive Care Unit Refresher Forum, Zulia University and Central/University Hospital of Maracaibo. Maracaibo, Zulia State, Venezuela, December 2009**
“Ultrasound guided regional anesthesia and pain medicine”
“Evidence based medicine”
“Implications of anesthesia in sleep disorders”
“Ventilatory strategies in critical ill patients under anesthesia”
- **Canadian Interventional Pain Workshop and 3rd Annual Event. Montreal, Quebec, April 2010**
“Caudal epidural approaches in pain medicine”
“Sacroiliac joint complex pain”
“Radiofrequency COOL therapy for SI joint complex pain”

AWAD, I

- **Regional Anesthesia and Pain Medicine. Niagara-on-the-Lake, Ontario, August 2009**
“Ultrasound guided upper limb block” (Workshop instructor)
- **Scarborough Grace Hospital. Toronto, Ontario, September 2009; Toronto East General Hospital. Toronto, Ontario, October 2009; and, Toronto Anesthesia Symposium. Toronto, Ontario, April 2010**
“Ultrasound guided regional anesthesia” (Workshop leader)
- **Canadian Anesthesiologists’ Society Annual Scientific Meeting. Montreal, Quebec, June 2010**
“Lower limb blocks” (Ultrasound guided workshop instructor)

BAKER, AJ

- **Canadian Critical Care Forum. Toronto, Ontario, October 2009**
“Management of the brain-dead donor”
“Trauma-missed brain injury”
- **National Neurotrauma Symposium. Las Vegas, Nevada, June 2010**
“In Vitro modeling in TBI: A clinical critical care perspective”
- **XI Annual conference of Indian Society of Neuroanaesthesiology and Critical Care. Klokata, India, 2010**
“Nutritional management in the Neuro ITU”

BALKI, M

- **7th Annual Mount Sinai Hospital Obstetric Anesthesia Conference. Toronto, Ontario, October 2009**
“Use of ultrasound in obstetric anesthesia” (Workshop leader and instructor)
“Physics of ultrasound and image interpretation”
“Current concepts in PIH hemodynamics and its interaction with regional anesthesia”

- **Anesthetic Practice. Toronto, Ontario, November 2009**
 “Postpartum hemorrhage”
 “Ultrasound for peripheral nerve blocks/neuraxial blocks and vascular access”
 (Workshop leader and instructor)
- **Department of Anesthesiology and Medical Education technology Unit, NKP Salve Institute of Medical Sciences and Research Center. Nagpur, India, December 2009**
 “Postpartum hemorrhage and uterotonic agents” (Keynote speaker)
 “Labor analgesia” (Keynote speaker)
- **Toronto Anesthesia Symposium. Toronto, Ontario, April 2010**
 “Spinal ultrasound” (Workshop leader and instructor)
- **42nd Annual Society for Obstetric Anesthesia and Perinatology Meeting. San Antonio, Texas, May 2010**
 “Ultrasound workshop” (Speaker and instructor)
 “Pearls and pitfalls: Remifentanil PCA for labor analgesia”
 “Resident and medical student forum” (Moderator and judge)
- **Edmonton Continuing Medical Education Group Meeting. Edmonton, Alberta, June 2010; and, Grand Rounds, Royal Alexandra Hospital, Video-conference with all Edmonton teaching hospitals. Edmonton, Alberta, June 2010**
 “Remifentanil PCA for labor analgesia”
- **Canadian Anesthesiologists’ Society Annual Meeting. Montreal, Quebec, June 2010**
 “Ultrasound for labor epidural” (Workshop speaker and instructor)

BEATTIE, S

- **Alumni Symposium on the Past, Present and Future of Anesthesia, Research in Anesthesia. Hamilton, Ontario, September 2009**
 “Are we getting anywhere?”
- **Visiting Professor, University of Victoria. Victoria, British Columbia, October 2009**
 “The burden of perioperative anemia: The meetings of an interested observer”
- **American Society of Anesthesiologists’ Annual Meeting. New Orleans, Louisiana, October 2009**
 “Non cardiac surgery after percutaneous coronary interventions (PCI): An evidence-based treatment approach?”
- **College of Anesthesiologists’ Great Britain and Ireland. Ireland, November 2009**
 “Evidence based medicine”
- **Annual Winterlude Symposium. Ottawa, Ontario, February 2010**
 “Beta blocker controversy”
- **International Anesthesia Research Society Annual Meeting, Panel for Cardiovascular Disease. Honolulu, Hawaii, March 2010**
 “Perioperative beta blocker enhancing the safety profile”
- **Visiting Professor, University of Utrecht, Department of Anesthesia. Utrecht, Netherlands, April 2010**
 “Preoperative consult”
 “Rational use of beta blockers”
 “Evidence based medicine”
- **Regional Meeting of the Canadian Anesthesiologists’ Society. Fredericton, New Brunswick, May 2010**
 “Rational use of beta blockers”
- **The Great Canadian Fluid Debate. Montreal, Quebec, June 2010**
 “Con Debate: All patients should have cardiac output monitored”
- **Canadian Anesthesiologists’ Society Annual Meeting. Montreal, Quebec, June 2010**
 “Rational use of beta blockers”

BELO, S

- **Hip Health Current Perspectives Conference. Toronto, Ontario, November 2009**
 “Clearing a total hip arthroplasty patient for surgery”
- **Anesthetic Practice for Total Joint Arthroplasty, North York General Hospital. Toronto, Ontario, February 2010**

BOHN, D

- **10th Congress of the World Federation of Societies of Intensive and Critical Care Medicine. Florence, Italy, August 2009**
 “Myocarditis/cardiomyopathy: What really takes pediatric cardiac critical care to the next level?” (Panel discussion)
 “Metabolic and nutritional crisis” (Co-moderator)
 “Getting fluid management right for children in the PICU” (Panel discussion)
- **20th Annual Extracorporeal Life Support Organization Conference. Ann Arbor, Michigan, September 2009**
 “How to measure and improve safety of ECMO”
 “Adult ECMO should be done in adult hospitals” (Moderator—pro/con debate)
- **18th Journey of Neonate and Pediatric Intensive Care of the Sinha Junqueira Maternity. Ribeirao Preto, Brazil, September 2009**
 “Ventilatory strategies in ARDS in children”
 “Hypothermia in pediatric critical care: when and how to use it?”
 “Pediatric septic shock: future perspectives”

- **1st Asian Congress of Pediatric Intensive Care and 11th National Conference of Pediatric Critical Care. Chandigarh, India, September 2009**
 - “Electrolyte emergencies in PICU”
 - “Maintenance fluids in critically ill: Is normal saline the best option?”
 - “Case scenario: Diabetic ketoacidosis”
 - “Myocarditis and cardiomyopathies”
- **4th Toronto Cardiac Symposium: Contemporary Questions in Congenital Heart Disease: Heart Failure and Transplantation. Toronto, Ontario, October 2009**
 - “Positive pressure support ventilator support: Who, when and how?”
- **Critical Care Canada Forum 2009. Toronto, Ontario, October 2009**
 - “Pediatric and congenital heart disease”
- **XI Brazilian Congress on Pediatric Intensive Care. Belo Horizonte, Brazil, November 2009**
 - “Fluid resuscitation: When and how to do it”
 - “Hydro-electrolyte balance in critical care”
 - “Rational sedation and analgesia for children in mechanical ventilation”
- **26th Children’s National Medical Center Symposium on Extracorporeal Membrane Oxygenation and the Advanced Therapies for Respiratory Failure. Keystone, Colorado, February 2010**
 - “Pediatric and adult intensive care: State of the art” (Moderator and speaker)
 - “Pediatric ECLS abstracts” (Co-moderator)
 - “Venous oxygen saturation: Pro/con measurements”
- **Children’s Hospital at Montefiore, Department of Pediatrics Grand Rounds. Bronx, New York, March 2010**
 - “Salt, water and cerebral oedema: Is it the disease or is it the doctor?” (Invited professor)
- **American Association for Thoracic Surgery/Society of Thoracic Surgeons Congenital Heart Disease Symposium. Toronto, Ontario, May 2010**
 - “Objective assessment of cardiac output in infants following cardiac surgery”

BRULL, R

- **Annual Hands-on Regional Anesthesia and Pain Medicine Conference, Department of Anesthesia, University of Toronto. Niagara-on-the-Lake, Ontario, August 2009**
 - “Limitations, pitfalls and artifacts of ultrasound guided techniques”
 - “Intensive lower extremity workshop”
- **International Symposium of Ultrasound in Regional Anesthesia, Association for Ultrasound Imaging in Regional Anesthesia. Schweztingen, Germany, September 2009**
 - “Basic ultrasound course for regional anesthesia”
 - “Basic physics for ultrasound imaging”
 - “Sacral plexus nerve blocks”
- **American Society of Anesthesiologists Annual Meeting. New Orleans, Louisiana, October 2009**
 - “Ultrasound for regional anesthesia: Future practice or flash in the pan?”
 - “Regional anesthesia cadaver workshop”
 - “Ultrasound guided regional anesthesia and clinical skills workshop”
- **International Symposium of Ultrasound in Regional Anesthesia, Association for Ultrasound Imaging in Regional Anesthesia. Toronto, Ontario, January 2010**
 - “Basic ultrasound course for regional anesthesia”
- **American Society of Regional Anesthesia and Pain Medicine Annual Spring Meeting and Workshops. Toronto, Ontario, May 2010**
 - “Needle-nerve proximity: What do the animal studies tell us?”
 - “Intensive upper extremity workshop”
- **Annual McGill Anesthesia Update. Montreal, Quebec, May 2010**
 - “Central neuraxial techniques: Defining the risk”
 - “Ultrasound guided techniques limitations and pitfalls”

CAMPBELL, F

- **Paediatric Anaesthesia Conference. Toronto, Ontario Sept 2009**
 - “Dealing with pain”
- **The Hospital for Sick Children, Department of Pediatrics, Pediatric Education and Research Series. Toronto, Ontario, September 2009**
 - “Pain management”
- **Canadian Association of Paediatric Health Centres and Canadian Institutes of Health Research Team in Children’s Pain. Canada, March 2010**
 - “From pokes to post-op: An overview of pain prevention and management in hospitalized children” (Webinar)
- **Department of Hematology and Oncology, The Hospital for Sick Children. Toronto, Ontario, February 2010**
 - “Pain management workshop for children and youth with sickle cell disease”

- **Cross Talks Seminar, The Hospital for Sick Children. Toronto, Ontario, November 2009**
“Chronic pain: Everybody wants a diagnosis”
- **Perioperative Services Grand Rounds, The Hospital for Sick Children. Toronto, Ontario, January 2010**
“Pain matters”
- **Wasser Educational Rounds, Wasser Pain Management Centre. Toronto, Ontario, March 2010**
“Teenagers with pain: Crossing the street!”

CARVALHO, J

- **XX Jornada Mineira de Anestesiologia. Ouro Preto, Brazil, September 2009**
“Obstetric anesthesia routines in the developed world”
“New techniques of labor analgesia”
- **Department of Anesthesia, University of Sao Paulo. Sao Paulo, Brazil, September 2009**
“What is new in obstetric anesthesia?”
- **Queensville Lecture Series, Southlake Regional Health Centre. Newmarket, Ontario, September 2009**
“Ultrasound-facilitated spinals and epidurals in obstetrics”
- **Department of Anesthesia, Wake Forest University. Winston Salem, North Carolina, September 2009**
“Ultrasound-facilitated spinals and epidurals in obstetrics”
- **Obstetric Anesthesia Conference and Workshop, Mount Sinai Hospital. Toronto, Ontario, October 2009**
“Ultrasound-assisted spinals and epidurals in obstetrics” (Workshop Instructor)
“Is your patient at high risk for post-partum pain?”
- **56th Brazilian Congress of Anesthesiology. Salvador, Brazil, November 2009**
“Anesthetic considerations for the patient with morbid obesity”
“Advances in obstetric anesthesia”
“Intravenous analgesia for labor and delivery”
“Free paper presentation” (Moderator)
- **Best Practice in Maternal and Perinatal Health, Al Corniche Hospital. Abu Dhabi, United Arab Emirates, November 2009**
“Ultrasound-facilitated spinal and epidural in obstetrics”
“Post-partum pain management: Current concepts, current and future possibilities”
“Ultrasound-assisted spinals and epidurals in obstetrics” (Workshop Instructor)
- **63rd Post Graduate Assembly. New York, December 2009**
“Ultrasound-assisted spinals and epidurals in obstetrics” (Workshop instructor)
- **International Winter Symposium, University of Leuven. Leuven, Belgium, January 2010**
“Ultrasound-assisted spinals and epidurals in obstetrics” (Workshop instructor)
- **International Anesthesia Research Society Annual Meeting. Honolulu, Hawaii, March 2010**
“The high BMI parturient, issues and implications with the topic: Does ultrasound guidance make a difference with neuraxial technique placements?”
- **The Toronto Anesthesia Symposium. Toronto, Ontario, April 2010**
“Post-partum pain management: Why should you think seriously about this?”
- **51st Annual McGill Anesthesia Update. Montreal, Quebec, May 2010**
“Post cesarean section pain management”
“Ultrasound-assisted spinals and epidurals in obstetrics” (Workshop instructor)
- **42nd Annual Meeting of the Society for Obstetric Anesthesia and Perinatology. San Antonio, Texas, May 2010**
“Pro/con debate: Lumbar ultrasound: Useful gadget or time consuming gimmick?”
“Ultrasound for the obstetric anesthesiologist” (Workshop director)
- **Meeting of the Obstetric Anesthesia Chapter of the Swedish Society of Anesthesiology. Sigtuna, Sweden, May 2010**
“Ultrasound facilitated spinals and epidurals in obstetrics”
“Use of uterotonic agents and interventional radiology in obstetric bleeding”
“Ultrasound-assisted spinals and epidurals in obstetrics” (Workshop instructor)
- **Canadian Anesthesiologists’ Society Meeting. Montreal, Quebec, June 2010**
“Ultrasound-assisted spinals and epidurals in obstetrics”
- **Professor’s Rounds, Department of Anesthesia, University of Toronto. Toronto, Ontario, 2010**
“Ultrasound assisted epidurals and spinals in obstetrical and other patients”

CHAN, V

- **Annual Pain Medicine Meeting and Workshops, American Society of Regional Anesthesia and Pain Medicine. San Antonio, Texas, November 2009**
“Basic ultrasound techniques”
“Principles of ultrasonography: Physics, scanning techniques, knobology”
- **Aspen Anesthesia. Snowmass, Colorado, January 2010**
“Ultrasound guided lumbosacral plexus and neuraxial blocks”
“Ultrasound guided lower limb blocks”

- “Ultrasound guided upper limb blocks”
- “Can ultrasound imaging change clinical outcome?”
- **Beth Israel Deaconess Medical Center, Department of Anesthesia, Critical Care and Pain Medicine. Boston, Massachusetts, February 2010**
 - “Does ultrasound make regional anesthesia safer?”
- **84th International Anesthesia Research Society Clinical and Scientific Congress. Honolulu, Hawaii, March 2010**
 - “Ultrasound guided regional anesthesia”
 - “Advanced ultrasound guided nerve block”
 - “Peripheral nerve blocks: Ultrasound, simulation and stimulation”
- **2nd International Symposium on Spine and Paravertebral Sonography for Anaesthesia and Pain Medicine. Shatin, Hong Kong, March 2010**
 - “Ultrasound guided regional anesthesia—Where are we today?”
 - “Lower extremity blocks with the patient in the prone position: Sciatic nerve blocks”
 - “Lumbar paravertebral imaging”
- **Visiting Professor, Department of Anesthesia, Campus Gasthuisberg, UZ Leuven. Leuven, Belgium, April 2010**
 - “Recent advances in ultrasound guided regional anesthesia”
- **Visiting Professor, Department of Anesthesiology and Pain Therapy, Maastricht University Medical Center. Maastricht, Netherlands, April 2010**
 - “Does ultrasound make regional anesthesia safer?”
 - “Difficult spine cases”
- **Excellence in Regional Anesthesia Workshop, American Society of Regional Anesthesia. Chicago, Michigan, June 2010**
 - “Ultrasound guided brachial plexus blocks above the clavicle”
 - “Brachial plexus blocks above the clavicle”
 - “Brachial plexus blocks below the clavicle”
 - “Blocks of abdomen and spine”
 - “Lower extremity blocks”
- **7th Annual International Symposium of Ultrasound for Regional Anesthesia and Pain Medicine. Toronto, Ontario, June 2010**
 - “Ultrasound guided perineural catheter techniques”

CHIN, K

- **Invited Lecturer, Department of Anesthesia, Murdoch University Veterinary School. Perth, Australia, July 2009**
 - “Ultrasound-guided regional anesthesia”
- **Grand Rounds, Department of Anesthesia, Tan Tock Seng Hospital. Singapore, July 2009**
 - “Ultrasound-guided central neuraxial blockade”
- **16th Annual Regional Anesthesia and Pain Medicine Meeting. Niagara-on-the-Lake, Ontario, August 2009**
 - “Ultrasound-guided central neuraxial blockade”
- **American Society of Regional Anesthesia and Pain Medicine Excellence in Ultrasound-Guided Regional Anesthesia Workshop. Coral Gables, Florida, September 2009**
 - “Infraclavicular block”
- **Varkey Regional Anesthesia Update. London, Ontario, November 2009**
 - “Axillary nerve block”
 - “Femoral nerve blocks”
 - “Popliteal sciatic nerve block”
- **Grand Rounds, Department of Anesthesia, Tan Tock Seng Hospital. Singapore, December 2009**
 - “Needle manipulation in ultrasound-guided regional anesthesia”
- **1st Annual Meeting of the Society for Ultrasound in Anesthesia. London, United Kingdom, May 2010**
 - “Needle visualization in ultrasound-guided regional anesthesia”
- **7th Annual International Symposium of Ultrasound for Regional Anesthesia. Toronto, Ontario, June 2010**
 - “Upper Limb II: Infraclavicular and axillary blocks; basic spine imaging”

CHUNG, F

- **Kuala Lumpur Medical Meeting. Malaysia, July 2009; Malacca Medical Meeting. Malaysia, July 2009; and, Ipoh Medical Meeting. Malaysia, July 2009**
 - “Update on Coxib”
- **16th ASEAN Congress of Anaesthesiologists. Kota Kinabalu, Sabah, Malaysia, July 2009**
 - “What is new in ambulatory anesthesia”
 - “What is important in discharge”
 - “Recent development in the perioperative management of a patient with obstructive sleep apnea”
 - “Coxib 2009”
- **Tung Wah Hospital Conference. Hong Kong, October 2009**
 - “Pain management and day surgery”
 - “PONV: What is new and what is different?”
 - “Controversial issues in anesthesia practice”

- **Annual Scientific meeting in Anesthesiology. Hong Kong, October 2009**
 “Preoperative clinic: Why is it essential?”
 “Preop testing for day surgery patients: Is it necessary?”
 “Organization of Day Surgery Centre: The Canadian experience”
 “Perioperative care of obstructive sleep apnea syndrome patients”
- **American Society of Anesthesiologists. New Orleans, Louisiana, October 2009**
 “Ambulatory surgery: What happens after the patient goes home”
- **Humber Regional Hospital. Toronto, Ontario, February 2010**
 “Perioperative management of obstructive sleep apnea patient”
- **Academic Day, Department of Anesthesia, Laval University. Quebec City, Quebec, March 2010**
 “Ambulatory anesthesia: An update”
 “Obstructive sleep apnea: A challenge for the anesthesiologist”
- **25th Annual Meeting Society for Ambulatory Anesthesia. Baltimore, Maryland, April 2010**
 “Re-examining the anesthesiologists’ role and extending our reach”
- **Visiting Professor, Kuala Lumpur Hospital, University of Kuala Lumpur. Malaysia, April 2010**
 “Preoperative clinic: Is it essential?”
- **Visiting Professor, Penang General Hospital. Malaysia, April 2010**
 “Anesthesia for the at risk patients: The elderly and morbidly obese”
- **Visiting Professor, University Kebangsaan Malaysia Medical Centre. Malaysia, April 2010**
 “General anesthesia in the elderly”
- **First Malaysian Day Surgery Congress. Kuala Lumpur, Malaysia, April 2010**
 “PQRS: Postoperative quality of recovery scale”
 “Preoperative clinic: Why is it essential?”
 “Inhalational anesthesia”
 “The role of Coxibs in day surgery”
 “Perioperative management of a patient with obstructive sleep apnea?”
- **Geisinger Health System Conference. Philadelphia, Pennsylvania, May 2010**
 “Perioperative management of obstructive sleep apnea patients: A challenge for everyone”
- **Trillium Health Science Centre. Toronto, Ontario, May 2010**
 “Perioperative management of OSA patients”
- **Canadian Anesthesiologists’ Society 66th Annual meeting. Montreal, Quebec, June 2010**
 “Obstructive sleep apnea: Are we sleepwalking to disaster?”
- **Ryder Trauma Center, University of Miami. Miami, Florida, 2010**
 “Obstructive sleep apnea: Are we sleepwalking to disaster?”

CLARKE, H

- **Holland Research Rounds. Toronto, Ontario, April 2010**
 “The perioperative use of Gabapentin and Pregabalin”
- **Preventive Perioperative Multimodal Analgesia. Thunder Bay, Ontario, June 2010**
 “The next frontier”
 “Pearls for the development of an acute pain service”
- **University of Alberta. Calgary, Alberta, June 2010**
 “From preemptive analgesia to preventive multimodal analgesia and beyond”
 “Rehab 535: The nature of pain”

COOPER, R

- **Society for Airway Management Annual Scientific Meeting. Las Vegas, Nevada, September 2009**
 “Current controversies in obstetric airway management” (Moderator)
 “Mask ventilation and cricoid pressure during rapid sequence induction” (Lecture)
- **American Society of Anesthesiologists Annual Meeting. New Orleans, Louisiana, October 2009**
 “Fiberoptic workshop: Basic”
 “Airway workshop: Advanced”
- **Mumbai, India, October 2009**
 “Extubation of the difficult airway”
 “Cracking the problem of the critical airway” (Plenary lecture)
 “Difficult airway management” (Workshop)
- **Difficult Airway Society Annual Scientific Meeting. Perth, Scotland, November 2009**
 “Extubation of the difficult airway: Risk stratification and strategies” (Lecture)
 “Supraglottic airway should be the gold standard for upper airway obstruction” (Pro/con debate)

- **University of Chicago 22nd Annual Conference: Challenges for Physicians.** Chicago, Illinois, December 2009
“What is the role for video-laryngoscopy?” (Workshop)
- **Grand Rounds, Toronto General Hospital, Department of Anesthesia.** Toronto, Ontario, January 2010
“Video-laryngoscopy: The whys and the whats?”
- **XIV Curso Téorico-Practico De Manejo de la Vía del la via Aérea e Intubación Dificil.** Valencia, Spain, February 2010; and, **Anesthesia Society of Cataluña, Hospital de Bellvitge, Unversitat de Barcelona.** Barcelona, Spain, February 2010
“Laryngoscopy: Past and future” (Keynote)
“GlideScope video laryngoscope” (Lecture)
“Airway workshop”
- **Rounds: Preoperative Care Unit, Toronto General Hospital Airway.** Toronto, Ontario, February 2010
“Video Laryngoscopy: The state of the art”
“GlideScope-tips and tricks” (Workshop)
- **Preoperative Clinic, Nursing Rounds, Toronto General Hospital.** Toronto, Ontario, March 2010
“Airway evaluation”
- **Research Fellows’ Professor’s Rounds, University of Toronto, Department of Anesthesia.** Toronto, Ontario, March 2010
“Extubation of the difficult airway”
- **The Toronto Anesthesia Symposium, University of Toronto.** Toronto, Ontario, April 2010
“Video laryngoscopy”
- **Grand Rounds, UHN Department of Emergency Medicine.** Toronto, Ontario, May 2010
“Management of the difficult airway in the 21st Century—More of the same?” (Lecture)
“Airway workshop problems in airway management”
- **European Anaesthesiology Congress.** Helsinki, Finland, June 2010
“Problems with video laryngoscopy” (Lecture)
“Airway” (Workshop)
“GlideScope video laryngoscopy” (Moderator)
“Video laryngoscopy: What evidence should we be collecting?” (Lecture)
- **The World Congress of Nurse Anaesthetists.** Das Haag, Netherlands, June 2010
“Management of the difficult airway in the 21st Century: More of the same?” (Lecture)
“Airway” (Workshop)

COX, P

- **1st Asian Congress Chandigarh.** India, September 2009
“Better communication”
“Alternative ventilation strategies”
“Optimize patient safety”
“Can one justify Intensive care unit in the Third World”
- **International Paeds Update Conference.** Hyderabad Hyderabad, India, October 2009
“Renal replacement therapy”
“Preventing ALI”
“Strategies to minimize nosocomial infection”
“Silence kills”
- **1st International Critical Care Conference.** Damam, Saudi, Arabia January 2010
“Organ donation: Role of PICU”
“Silence kills: Communication under stress”
“Infection control in PICU”
“Renal replacement therapy”
“Conventional mechanical ventilation”
“High frequency mechanical ventilation”
- **Society of Paediatric Anaesthesia.** San Antonio, Texas, May 2010
“Multimodal monitoring in critical care”
- **7th National Congress Società Italiana di Anestesia Rianimazione Emergenza e Dolore.** Sardinia, Italy, May 2010
“What is the best way to ventilate?”
“Quality and critical care: Do they go hand in hand?”

DAVALLOU, M

- **4th Annual Obstetric Anesthesia Day, Toronto Anesthetic Practice Meeting, Women’s College Hospital, University of Toronto.** Toronto, Ontario, November 2009
“Management of airway disasters for emergency C-section”

DAVIES, S

- **7th Annual Mount Sinai Hospital Obstetric Anesthesia Conference.** Toronto, Ontario, October 2009
“Maternal morbidity and mortality: Lessons learned from accidents, errors and unexpected events”

- **Anesthetic Practice. Toronto, Ontario, November 2009**
“Maternal mortality”
- **4th Annual Obstetric Anesthesia Day. Toronto, Ontario, November 2009**
“Managing the parturient with an amniotic fluid embolus”
- **Critical Obstetric Care Fellowship Symposium, Mount Sinai Hospital. Toronto, Ontario, November 2009**
“Amniotic fluid embolus”

DEVITO, I

- **7th Annual Mount Sinai Hospital Obstetric Anesthesia Conference. Toronto, Ontario, October 2009**
“Selected high risk and unusual cases in obstetrics”
- **Critical Obstetric Care Fellowship Symposium, Mount Sinai Hospital. Toronto, Ontario, November 2009**
“Cardiac arrest in pregnancy”
- **St. Joseph’s Hospital Rounds. Toronto, Ontario, March 2010**
“Undergraduate education”

FISHER, J

- **Grand Rounds, Seminars and Operating Room Demonstrations, University of Antwerp Hospital. Antwerp, Belgium, March 2010**
“Anesthetic elimination: Pharmacokinetics”

FRIEDMAN, Z

- **10th Annual International Meeting on Simulation in Healthcare, Society for Simulation in Health Care. Phoenix, Arizona, January 2010**
“Simulation and debriefing” (Workshop)
- **Toronto Anesthesia Symposium. Toronto, Ontario, April 2010**
“Experience is not enough: How to avoid common aseptic breaches during epidural catheter insertion” (Workshop)
- **Canadian Anesthesiologists’ Society Meeting. Montreal, Quebec, June 2010**
“Postoperative recovery after ambulatory anesthesia and surgery: Refresher course”

GAGLIESE, L

- **13th Annual Knowledge Exchange Meeting of the National Initiative for the Care of the Elderly. Toronto, Ontario, June 2010**
“Pain measurement in older people: Translating research evidence to practice”

GARDNER-NIX, J

- **Orillia Soldiers Memorial Hospital Grand Rounds. Orillia, Ontario, November 2009; Women’s College Hospital Grand Rounds. Toronto, Ontario, September 2009; and, Fort Frances Hospital Rounds. Fort Frances, Ontario, September 2009**
“Managing pain the modern way”
- **St. Joseph’s Hospital Grand Rounds in Pain. London, Ontario, October 2009**
“Have the 2 Ms - Morphine and Marijuana - been replaced by mindfulness and meditation in pain management?”
- **Women’s Health Day, St Michael’s Hospital. Toronto, Ontario, January 2010**
“Mindfulness-based chronic pain management”
- **Workshop for Family Physicians. Toronto, Ontario, March 2010**
“Updating chronic pain management”

GOLDSZMIDT, E

- **Rounds, North York General Hospital. Toronto, Ontario, October 2009; and, Ontario Anesthesia Meeting. Toronto, Ontario, October 2009**
“Presentation of a new fee template”
- **7th Annual Mount Sinai Hospital Obstetric Anesthesia Conference. Toronto, Ontario, October 2009**
“Anesthesia care team in obstetrics: Present and future of a new model”
“Ultrasound for vascular access” (Workshop)
- **Anesthetic Practice. Toronto, Ontario, November 2009**
“Ultrasound for peripheral nerve blocks/neuraxial blocks and vascular access” (Workshop)
- **Critical Obstetric Care Fellowship Symposium. Toronto, Ontario, November 2009**
“Airway management”
- **Mount Sinai Hospital PAU Retreat. Toronto, Ontario, June 2010**
“Future of the pre-admission unit”

HALPERN, S

- **Grand Rounds, Department of Obstetrics and Gynecology, Sunnybrook Health Sciences Centre. Toronto, Ontario, October 2009**
“The use of ultrasound for neuraxial blocks in obstetrics”
- **4th Annual Obstetric Anesthesia Day, Women’s College Hospital. Toronto, Ontario, November 2009**
“Epidural analgesia to epidural anesthesia for cesarean section: Practical considerations”
- **Euroanaesthesia. Helsinki, Finland, June 2010**
“The ‘less than perfect’ epidural”

HARE, GMT

- **Department of Anesthesiology, University of Pennsylvania. Philadelphia, Pennsylvania, November 2009**
“Acute anemia and β -blockade: Assessing the risk with experimental models”
“Surviving acute anemia: Re-assessment of the physiological and hypoxic cellular responses”
- **Department of Critical Care Medicine, Sunnybrook Health Sciences Centre, University of Toronto. Toronto, Ontario, December 2009**
“Acute anemia and beta-blockade: Partners in crime?”
- **Queensville Lecture, Department of Anesthesiology, Southlake Regional Health Centre. Newmarket, Ontario, December 2009**
“Acute anemia and beta-blockade: How can basic science help us care for our patients?”

HOCKMANN, E

- **Sunnybrook Ski and Scan Conference. Lake Louise, Alberta, March 2010**
“Transthoracic ultrasound essentials”
- **3rd Critical Care Ultrasound Symposium. Montreal, Quebec, June 2010**
“Case presentations; TTE and abdominal compartment syndrome”

HOLTBY, H

- **Royal Society of Medicine Haematology and Cardiac Surgery Meeting. London, England, November 2009**
“Sickle cell disease and cardiopulmonary bypass”
- **Association of Paediatric Anaesthetists of Great Britain and Ireland/Canadian Pediatric Anesthesia Society Joint Meeting. Glasgow, Scotland, May 2010**
“Complex anaesthesia in the developing world”

HUSSAIN, K

- **4th Annual Obstetric Anesthesia Day, Toronto Anesthetic Practice Meeting, Women’s College Hospital. Toronto, Ontario, November 2009**
“Postpartum nerve injuries: What would you do?”
- **Canadian Anesthesiologists’ Society Annual Meeting. Montreal, Quebec, June 2010**
“Postpartum nerve injuries”

IDESTRUP, C

- **University of Toronto Regional Anesthesia and Pain Management. Niagara-on-the-Lake, Ontario, August 2009**
“Procedure specific multimodal analgesia” (With Kay, J)

JADAD, A

- **Getting to Uptake: Leveraging Social Innovation for Practice Change Symposium, Community Health Systems Resource Group, The Hospital for Sick Children. Toronto, Ontario, September 2009**
“Changing our practices in the age of the Internet and global telecommunications”
- **Annual Best Medicines Coalition Fundraising Dinner. Toronto, Ontario, September 2009**
“Human health in the age of the Internet and global telecommunications: How virtual tools are transforming how we communicate, live and learn” (Keynote)
- **AGE: 1000 Seminar Multidisciplinary Concepts in Palliative and Supportive Care, Institute for Life Course and Aging. Toronto, Ontario, September 2009**
“Technology in palliative and supportive care delivery”
- **Symposium 09: The Plate and Beyond—New Perspectives on Food and Nutrition, Dairy Farmers of Canada. Videoconference from Toronto to Edmonton and Moncton, and in person in Toronto and Montreal October 2009**
“Innovative use of technology to facilitate nutrition practice and education: A view from the age of the Internet and global telecommunications”
- **6th World Congress of Scientific Youth. Videoconference from Toronto to Mexico, October 2009**
“Youth leadership in the age of the Internet and global telecommunication: An opportunity for reverse mentorship”
- **European School of Oncology eGrand Rounds. Videoconference from Toronto to Lugano, Switzerland, October 2009**
“Cancer on the Internet: Are we ready for the age of online social networks?”
- **Celebracion Dia Mundial Contra el Dolor en Cancer. Videoconference from Toronto to Bogota, Colombia, October 2009**
“Luchando contra el dolor en la era de las redes sociales y las telecomunicaciones globales”
- **Congreso Nacional de la Sociedad Espanola de Farmaceuticos de Atencion Primaria. Seville, Spain, October 2009**
“ehealth e innovacion: nuevos entornos asistencia-les para mejorar el uso de los medicamentos y la calidad de vida en los pacientes cronicos”
- **COACH: Canada’s Health Informatics Association Fall Forum Healthcare 2.0: Moving from Implementation to Impact. Toronto, Ontario, 2009**
“Human health in the age of social media”
- **XXX National Congress of the Spanish Society of Internal Medicine. Valencia, Spain, November 2009**
“El Internista del futuro”

- **20th Anniversary Celebrations of the Networks of Centres of Excellence.** Ottawa, Ontario, November 2009
“Canada, networks of excellence in the age of social media” (Keynote)
- **The Ontario Innovation Summit.** Toronto, Ontario, December 2009
“The business of aging”
- **Public Health Research Methods Course, Dhalla Lana School of Public Health.** Toronto, Ontario, December 2009
“Knowledge transfer”
- **Dellcrest Grand Rounds, Hinks-Dellcrest Centre.** Toronto, Ontario, December 2009
“Hinks: Being a health professional in the age of Facebook: What could we learn from our kids?”
- **eVia 2009, Sede Fundación ONCE.** Madrid, Spain, December 2009
“¿Qué hace falta para construir un mundo de salud y bienestar para todos?”
- **International Invitational Conference, Health Council of the Netherlands and the Netherlands Organisation for Health Research and Development.** Hague, Netherlands, December 2009
“Is health a state or ability?”
- **CCS Social Media Symposium.** Toronto, Ontario, January 2010
“Supporting each other in the age of social media: Are we ready?”
- **Health Applications of Cell Signaling in Mucosal Inflammation and Pain Annual Meeting and Trainee Workshop on International Collaboration in Research Training, St. Michael’s College.** Toronto, Ontario, April 2010
“Thinking globally: Opportunities for international collaboration in the age of social media”
- **Zonta Event—Dare to Dream, Mississauga Convention Centre.** Mississauga, Ontario, April 2010
“No regrets!”
- **8th Global Health Conference, University of Toronto.** Toronto, Ontario, May 2010
“Communication innovation and social responsibility: Building global health networks, advancing technology”
- **Bloomberg Faculty of Nursing Panel, University of Toronto.** Toronto, Ontario, May 2010
“Nursing: The answer to chronic disease management”
- **Ca-PRI’s 3rd Annual Conference, Department of Family and Community Medicine.** Toronto, Ontario, May 2010
“Cancer and primary care research in the age of social media and global telecommunications”
- **Andalusian School of Public Health and Observatorio de Prácticas Innovadoras en el Manejo de Enfermedades Crónicas Complejas, Human Health in the Age of Social Media and Global Telecommunications: Are We Ready for a Global Public eHealth System?** Granada, Spain, June 2010
“Quality of care for people with multiple chronic diseases: New opportunities and challenges” (Forum)
- **Transforming Health Systems for Chronic Patients: The Challenge of Implementation.** Comarca Bilbao, Spain, June 2010
“Managing people with multiple chronic diseases: A global response in the age of social media and global communication”
- **IX Congreso Nacional de la Sociedad Española de Electromedicina e Ingeniería Clínica.** Canary Island, Spain, June 2010
“En busca de la esencia de los hospitales en la sociedad: el papel de la ingeniería clínica como motor de transformación institucional” (Videoconference)
- **The Future eHealth Leaders’ Summer Camp.** Seville, Spain, June 2010
“Building a people-centred health system: What is the role of eHealth?” (Videoconference)

JARIANI, M

- **7th Annual Toronto Perioperative Transesophageal Echocardiography Symposium.** Toronto, Ontario, November 2009
“New developments in heart failure surgery: The expanded role of TEE”

KARKOUTI, K

- **Investigators Meeting for Factor XIII Multi-national Phase II Study.** London, England, July 2009
“Prediction of red blood cell transfusion in cardiac surgery”
- **National Symposium on Management of Hemostasis in Cardiac Surgery.** Paris, France, July 2009
“Use of novel hemostatic agents in cardiac surgery”
- **Prediction of Excess Hemorrhage in Cardiac Surgery.** Paris, France, July 2009
“National symposium on management of hemostasis in cardiac surgery”
- **Ontario Anesthesia Meeting.** Toronto, Ontario, October 2009
“RBC/FFP transfusion ratio: Should it be 1:1?”
- **American Society of Anesthesiologists.** New Orleans, Louisiana, October 2009
“Rescue therapy: Is there a role for rFVIIa?”
- **Investigators Meeting for Factor XIII Multi-national Phase II Study.** Tokyo, Japan, January 2010
“Prediction of red blood cell transfusion in cardiac surgery”
- **The Great Fluid Debate.** London, England, May 2010
“Restriction of red-cells or liberal use of plasma causes harm”
“Quality of donor blood and transfusion triggers”
- **The Great Canadian Fluid Debate.** Montreal, Quebec, June 2010
“Transfusion triggers” (Pro debate)

KARSKI, J

- **7th Annual Toronto Perioperative Transesophageal Echocardiography Educational Symposium.** Toronto, Ontario, November 2009
“TEE and intraoperative decision making in cardiac surgery”

KATZ, J

- **Canadian Anesthesiologists' Society Annual Meeting.** Montreal, Quebec, June 2010
“Risk and protective factors for the transition of acute postsurgical pain to chronic pathological pain”

KATZNELSON, R

- **Anaesthetic Practice Toronto, Ontario, November 2009**
“Postoperative delirium” (Workshop)
- **Visiting Professor, Grand Rounds, Department of Anesthesia, University of Antwerp.** Antwerp, Belgium, March 2010
“Isocapnic hyperpnoea in morbidly obese patients”
- **Visiting Professor, Grand Rounds, Department of Anesthesia, University of Lille Hospital.** Lille, France, March 2010
“Isocapnic hyperpnoea and recovery from inhalation anesthesia”
- **Visiting Professor, Grand rounds, Department of Anesthesia, University of California.** California, April 2010
“Postoperative delirium: Mechanisms, risk factors, prevention, treatment”
- **Research Seminar, Department of Vascular Surgery, Toronto General Hospital.** Toronto, Ontario, April 2010
“Melatonin and postoperative delirium”
- **Visiting Professor, Department of Anesthesia, University of Western Ontario.** London, Ontario, May 2010
“Perioperative medications and postoperative delirium”

KAVANAGH, BP

- **National University of Singapore.** Singapore, July 2009
“Invited Expert - Pediatric and adult critical care”
- **World Federation of Intensive and Critical Care Societies.** Florence, Italy, August 2009
“Ventilating the postoperative cardiac patient”
“The evidence for adjuncts to respiratory care”
- **European Society of Intensive Care Medicine Annual Congress.** Vienna, Austria, October 2009
“Mechanisms of ventilator-induced lung injury”
“Hypercapnia in critical care”
- **Perioperative Controversies Conference.** Dingle, Ireland, October 2009
“GRADE and grading guidelines” (Plenary lecture)
“Effect of age on susceptibility to ventilator-induced lung injury”
- **Argentine Congress on Intensive Care.** Cordoba, Argentina, October 2009
“Hypercapnia in critical care”
“Update on ARDS”
- **Critical Care Canada Forum.** Toronto, Ontario, October 2009
“Atelectrauma: Does it exist?”
“Consent in ICU studies: What does it mean?”
“Round table report” (Plenary co-moderator)
“Saudi critical care society session” (Co-moderator)
“Industry relationships” (Plenary: co-moderator)
- **Ontario Medical Association Annual Meeting.** Toronto, Ontario, October 2009
“The updates lectures: Guidelines” (Invited speaker)
- **Alberta Society of Intensive Care Physicians Annual Winter Meeting.** Lake Louise, Alberta, January 2010
“Should critically ill patients receive extra carbon dioxide?”
- **30th International Symposium of Intensive Care and Emergency Medicine.** Brussels, Belgium, March 2010
“Blood gases and electrolyte disorders: The effects of CO₂ revisited”
“VILI: Are younger lungs more vulnerable”
“Glucose control: A critical review of the evidence”
“Low VT in ARDS” (Moderator pro/con debate)
“Blood gases and electrolyte disorders” (Co-moderator)
- **10th Latin American Congress on Pediatric Critical Care.** Guatemala City, Guatemala, April 2010
“How does mechanical ventilation cause lung injury?”
“Is CO₂ harmful in critical illness?”
- **10th European Conference on Pediatric and Neonatal Ventilation.** Montreux, Switzerland, April 2010
“Influence of maturation of the lungs on susceptibility for VILI”
“What about the evidence from ventilation trials?”
- **Canadian Society of Respiratory Therapists Annual Education Conference.** St. John's, Newfoundland, May 2010
“Atelectasis: A pathogenic perioperative entity”

- **American Thoracic Society Annual Meeting. New Orleans, Louisiana, May 2010**
“Prevention of atelectrauma - Counterpoint: Recent RCTs of higher vs. lower PEEP should not change practice”
- **Canadian Anesthesiologists’ Society Annual Meeting. Montreal, Quebec, June 2010**
“Critical care and trauma poster discussion” (Moderator)

KAY, J

- **Regional And Pain Medicine. Niagara-on-the-Lake, Ontario, August 2009**
“Masterclass: Acute perioperative pain management”
“Intensive ultrasound workshops”

KEALEY, A

- **Regional Anesthesia and Pain Medicine Annual Workshop. Niagara-on-the-Lake, Ontario, August 2009**
“Intensive upper and lower limb ultrasound”
- **Annual Mont Tremblant Perioperative Conference. Tremblant, Quebec, February 2010**
“Ultrasound for regional anesthesia”
- **Southlake Regional Health Centre. Newmarket, Ontario, February 2010**
“Continuous peripheral nerve blocks”
- **Ski and Scan. Lake Louise, Alberta, March 2010**
“Intensive ultrasound guided regional anesthesia” (Workshop leader and facilitator)
“Multimodal analgesia for postoperative pain control” (Lecture)
- **American Society of Regional Anesthesia and Pain Medicine 35th Annual Regional Anesthesia Meeting and Workshops. Toronto, Ontario, April 2010**
“Ultrasound workshop for lower extremity blocks” (Workshop)
- **Canadian Anesthesiologists’ Society Annual Meeting. Montreal, Quebec, June 2010**
“Residents ultrasound workshop for regional anesthesia and vascular access” (Workshop leader)

KURREK, M

- **Ontario Dental Society of Anesthesia Annual Meeting. Toronto, Ontario, October 2009**
“Realistic simulation in anesthesia: Past, present and future” (Lecture)
- **City Wide Rounds, McMaster University, Department of Anesthesia. Hamilton, Ontario, November 2009; and, Anaesthetic Practice Meeting. Toronto, Ontario, November 2009**
“Out-of hospital facilities: Safe, simple and pain free or the Wild West of healthcare?” (Lecture)
- **North York General Hospital Rounds. Toronto, Ontario, January 2010**
“Peer assessment by the College of Physicians and Surgeons of Ontario” (Lecture)
- **American Society of Dental Anaesthesia Annual Scientific Meeting. Seattle, Washington, April 2010**
“Realistic simulation in anesthesia: Past, present and future” (Lecture)

LAFLAMME, C

- **4th Year Students Sciences Program, University of Toronto. Toronto, Ontario, September 2009**
“Integrating research into clinical practice”
- **Canada’s Forum on Patient Safety and Quality Improvement. Toronto, Ontario, April 2010**
“Canadian update on surgical site infection”
- **Webinar Presentation from Toronto to Labrador, May 2010**
“Updating current practice to reduce surgical site infection”
- **Provincial Continuing Medical Education. Halifax, Nova-Scotia, June 2010**
“How to implement Canadian surgical site infection guidelines”

MACARTHUR, A

- **7th Annual Mount Sinai Hospital Obstetric Anesthesia Conference. Toronto, Ontario, October 2009**
“Anesthetic management of patients with abnormal placentation”
- **Cesarean Section Update Conference, Mount Sinai Hospital, Department of Obstetrics and Gynecology. Toronto, Ontario, November 2009**
“Anesthesia considerations for cesarean delivery”

MANNINEN, P

- **Indian Society of Neurosurgical Anesthesia. Kolkata, India, January 2010**
“The treatment of giant aneurysms: Anesthetic considerations”

MAZER, CD

- **Annual American Society of Anesthesiologists Meeting. New Orleans, Louisiana, October 2009**
“Reducing blood usage in the Post-BART era” (Moderator)
“Update of antifibrinolytic drugs in cardiac surgery”
“Strategies for blood conservation in cardiac surgery”

MCCARTNEY, C

- **American Society of Regional Anesthesia and Pain Medicine Excellence in Ultrasound Workshops. Seattle, Washington, July 2009**
 - “Brachial plexus blocks below the clavicle” (Lecture)
- **Regional Anesthesia and Pain Medicine. Niagara, Ontario, August 2009**
 - “Ultrasound-guided regional anesthesia” (Workshop)
 - “Ultrasound below the clavicle” (Lecture)
- **Visiting Professor, University of Western Ontario. London, Ontario, September 2009**
 - “Can regional anesthesia improve patient outcomes” (Lecture)
 - “Avoiding complications of peripheral nerve blocks” (Lecture)
- **American Society of Anesthesiologists. New Orleans, Los Angeles, October 2009**
 - “Ultrasound-guided peripheral nerve blocks” (Workshop)
- **Australasian Society for Ultrasound in Regional Anaesthesia. Brisbane, November 2009**
 - “Ultrasound for interscalene block” (Keynote)
 - “Ultrasound for infraclavicular block” (Keynote)
 - “Evidence-base for ultrasound guided upper extremity blocks” (Keynote)
 - “Ultrasound for femoral, obturator and saphenous nerve blocks” (Keynote)
 - “Ultrasound for sciatic nerve block” (Keynote)
 - “Ultrasound for peripheral nerve blocks” (Workshop)
- **American Society of Regional Anesthesia and Pain Medicine Excellence in Ultrasound Workshops. Miami, Florida, January 2010**
- **American Society of Regional Anesthesia and Pain Medicine Spring Meeting. Toronto, Ontario, April 2010**
 - “Optimizing functional outcome for upper extremity orthopedic surgery” (Lecture)
 - “Upper extremity comprehensive” (Workshop)
 - “Intensive ultrasound” (Workshop)
- **University College. London, United Kingdom, May 2010**
 - “Has ultrasound changed the way we perform regional anesthesia?” (Lecture)
 - “Should ultrasound be the technique of choice for upper extremity blocks?” (Lecture)
 - “Ultrasound” (Workshop)
- **Ski and Scan Ultrasound Meeting. Lake Louise, Alberta, March 2010**
 - “Introduction to ultrasound” (Lecture)
 - “Avoiding complications of regional anesthesia” (Lecture)
- **Canadian Anesthesiologists’ Society. Montreal, Quebec, June 2010**
 - “Lower limb blocks masterclass” (Workshop)
 - “Trunk blocks” (Workshop)

MCCLUSKEY, S

- **Anesthesia Residents and Fellows Rounds, Toronto General Hospital. Toronto, Ontario October 2009**
 - “Fluid Therapy for Dummies”
- **North York General. Toronto, Ontario, November 2009**
 - “Fluid therapy: The right stuff for obstetrics”
- **William Osler. Brampton, Ontario, April 2010**
 - “Normal saline: Is it worth the salt?”
- **Toronto Anesthesia Symposium. Toronto, Ontario, April 2010**
 - “Fluid therapy: Just right”
- **The Great Canadian Fluid Debate. Montreal, Quebec, June 2010**
 - “Fluid compartments: The basics and update”

MCHARDY, P

- **Toronto Anesthesia Practice. Toronto, Ontario, November 2009**
 - “Regional anesthesia” (Workshop)
- **Canadian Anesthesia Society. Montreal, Quebec, June 2010**
 - “Ultrasonography of the lower limb” (Workshop)

MCRAE, K

- **Combined Rounds, Department of Anesthesia and the Division of Thoracic Surgery, University Health Network. Toronto, Ontario, June 2010**
 - “Two cases of neurological deficits after thoracic surgery”

MEINERI, M

- **7th Annual Toronto Perioperative Transesophageal Echocardiography Educational Symposium. Toronto, Ontario, November 2009**
 - “TEE for transplant surgery”
- **Transplant Rounds, Università degli Studi di Milano. Milan, Italy, May 2010**
 - “TEE for lung transplant surgery”

- **Grand Rounds, Università di Brescia, Ospedali riuniti di Bergamo. Bergamo, Italy, May 2010**
“Lung transplant program at Toronto General Hospital”
- **Departmental Rounds, Department of Anesthesia, Università di Padova, Azienda Ospedaliera di Padova. Padova, Italy, May 2010**
“3D TEE a significant advance in intraoperative clinical management”
- **Canadian Anesthesiologists' Society Annual Meeting. Montreal, Quebec, June 2010**
“Integrating 3D TEE into your practice: Ventricular assessment by 3D”

MIDDLETON, C

- **Anaesthetic Practice, Department of Anaesthesia, University of Toronto. Toronto, Ontario, November 2009**
“Anesthesia assistants and nurse practitioners”

MORGAN, P

- **Obstetric Anesthesia Conference, Anesthetic Practice. Toronto, Ontario, November 2009**
“The case of the missing epidural catheter tip: Now what?” (Keynote)
- **Operating Room Nurses, Women's College Hospital. Toronto, Ontario, November 2009**
“The surgical safety checklist: Implications and implementation” (Small group format)
- **Grand Rounds for Surgery, Anesthesia and Nursing, Women's College Hospital. Toronto, Ontario, January 2010; and, Board of Directors, Women's College Hospital. Toronto, Ontario, March 2010**
“The surgical safety checklist” (Large group format)
- **Medical Advisory Committee, Women's College Hospital. Toronto, Ontario, January 2010**
“The surgical safety checklist” (Small group format)
- **Multidisciplinary Rounds, North York General Hospital. Toronto, Ontario, March 2010**
“From flight deck to delivery room” (Keynote)
- **Canadian Anesthesiologists' Society Annual Meeting, Patient Safety Symposium. Montreal, Quebec, June 2010**
“We know what we want, but how do we get it? Navigating the difficult seas” (Moderator)

MORNINGSTAR, B

- **Tremblant Anesthesia Conference. Mont Tremblant, Quebec, February 2010**
“Perioperative fluids: Rationale behind the rhetoric”
- **Anesthesia Grand Rounds, Sunnybrook Health Sciences Centre. Toronto, Ontario, March 2010**
“Perioperative fluid management”
- **General Surgery Grand Rounds, Sunnybrook Health Sciences Centre. Toronto, Ontario, April 2010**
“Introduction to perioperative fluid management”
- **General Surgery Grand Rounds, Trillium Health Centre. Mississauga, Ontario, June 2010**
“Perioperative fluids: Are your patients drowning, treading water or sinking?”

MURPHY, P

- **American Society of Anesthesiologists Annual Meeting. New Orleans, Mississippi, October 2009**
“DCD: The Canadian experience”
- **Anesthesiology Continuing Medical Education Grand Rounds, Fairfax Inova Hospital. Fairfax, Virginia, November 2009**
“Complex coagulation abnormalities”
- **National Anesthesia Review Course. Toronto, Ontario, February 2010**
“Update in thoracic anesthesia: Making your mark”
- **Society of Cardiac Anesthesia Update on Cardiopulmonary Bypass. Whistler, British Columbia, May 2010**
“Pulmonary hypertension and right heart failure”

NIAZI, A

- **Cardiac Arrest in Anesthesia: Incidence and Prevention. Respiratory Therapy Society of Ontario Niagara Falls. Niagara Falls, Ontario, September 2009**
“Rising above the falls” (Lecture)
- **Problem-based Learning/Discussion Toronto, Anesthetic Practice Summit. Toronto, Ontario, November 2009**
“Seizures after regional blocks” (Lecture)
- **Canadian Anesthesiologists' Society Annual Meeting. Montreal, Quebec, June 2010**
“Upper limb workshop” (Lecture)
“Anesthesia assistants: Basic ultrasound” (Workshop)

ORSER, B

- **Biochemical Society. St. Andrews, Scotland, July 2009**
“GABA_A receptors in health and disease”
- **OXION Lecturer, Oxford University. Oxford, England, July 2009**
“Tonic inhibition and plasticity”

- **Pediatric Anesthesia Conference. Toronto, Ontario, November 2009**
“The science behind awareness”
- **Postgraduate Assembly of Anesthesiologists. New York, New York, December 2009**
“Managing the patient at risk for awareness”
- **Anesthesia Resident Orientation Day, University of Toronto. Toronto, Ontario, December 2009**
“An anesthesia research careers”
- **GP Anesthesia Update. Banff, Alberta, January 2010**
“Awareness in your practice”
“Drug safety in your practice”
- **Pinnacle Partners in Medicine. Dallas, Texas, February 2010**
“Memory MAC and mechanisms of anesthesia” (Keynote)
- **Weill Medical College, Cornell University. New York, New York, April 2010**
“Anesthetics reveal a tonic for memory loss”
“Avoiding dreaded drug errors in your anesthetic practice”
- **Southlake Medical Group. Newmarket, Ontario, April 2010**
“Memory monitors in anesthesia”
- **Academic Evening Department Anesthesiology and Pain Medicine, University of Washington. Seattle, Washington, May 2010**
“Marathon training in anesthesia research: Going the distance”
“Anesthesia and memory: From molecules to mind”

PENG, P

- **Regional Anesthesia and Pain Medicine Conference. Niagara-on-the-Lake, Ontario, August 2009**
“Opioids for chronic pain management: Tolerance and abuse” (Panel discussion)
“Ultrasound guidance for pain medicine” (Lecture)
“Ultrasound for spine imaging and chronic pain blocks” (Workshop)
- **American Society of Anesthesiologist. New Orleans, Louisiana, October 2009**
“Ultrasound or fluoroscopic guided injection for sympathetic block” (Workshop)
- **American Society for Regional Anesthesia Fall Meeting. San Antonio, Texas, November 2009**
“Basic anatomy of lumbar spine: Ultrasound” (Workshop)
“S1 Joint, Piriformis and S1 nerve root injection” (Workshop)
“Ultrasound of low back and pelvis” (Lecture)
“Lumbar spine, sacrum, SIJ and piriformis” (Workshop)
- **Ultrasound for Pain Medicine. Toronto, Ontario, November 2009**
“Ultrasound-guided injection for musculoskeletal system” (Workshop)
“Stellate ganglion block and iliinguinal/iliohypogastric block” (Lecture)
“Piriformis/pudendal injection, suprascapular nerve, intercostal nerve block” (Lecture)
“ABC of ultrasound scanning” (Lecture)
- **Convergence in Pelvi-perineal Pain. Jointly organized by Pain of Urogenital Origin-SIG of International Association of Study of Pain. Nantes, France, December 2009**
“Nerve block in pelvi-perineal pain” (Workshop)
“Pudendal neuralgia round table session: The experience of teams”
- **Ultrasound for Pain Medicine Workshop. Toronto, Ontario, January 2010**
“Stellate ganglion block and iliinguinal/iliohypogastric block” (Lecture)
“Lumbar facet nerve and caudal canal” (Lecture)
“Piriformis/pudendal injection, suprascapular nerve, intercostal nerve block” (Lecture)
“ABC of ultrasound scanning” (Lecture)
- **Pain Refresher Course by Canadian Pain Society Education Special Interest Group. Montreal, Quebec, February 2010**
“Neurobiology: Bench to bedside” (Lecture)
- **American Academy of Pain Medicine Annual Meeting. San Antonio, Texas, February 2010**
“Ultrasonography in pain medicine: Peripheral structures” (Lecture)
“Ultrasound-guided injection for musculoskeletal system” (Lecture)
- **Canadian Pain Society Annual Meeting. Calgary, Alberta, May 2010**
“The role of nerve block in pudendal neuralgia” (Lecture)
“Ultrasound in Pain Medicine: Peripheral and axial structures” (Lecture)
“Suboptimal pain education: An inconvenient truth” (Lecture)
“Ultrasound basic for the interventionist” (Lecture)
- **Canadian Anesthesiologists’ Society Meeting. Montreal, Quebec, June 2010**
“Ultrasound in pain medicine” (Workshop)
- **7th Annual International Symposium of Ultrasound for Regional Anesthesia. Toronto, Ontario, June 2010**
“Pudendal nerve and piriformis muscle” (Workshop)
“Lumbar spine and paravertebral space” (Workshop)
“Lumbar spine and paravertebral spine injection technique” (Workshop)

PERLAS, A

- **International Symposium of Ultrasound in Regional Anesthesia. Schwetzingen, Germany, September 2009**
“Ultrasound-guided infraclavicular and axillary blocks” (Lecture)
- **Curso de Ultrasonido en Anestesia Regional y Accesos Vasculares. Clínica Davila, Santiago de Chile, Chile, October 2009**
“Ultrasound-guided neuraxial anesthesia” (Lecture)
“Ultrasound of the femoral, obturator, femorocutaneous and saphenous nerves” (Lecture)
“Ultrasound guided regional anesthesia: Evidence and future challenges” (Lecture)
- **American Society of Anesthesiology Annual Meeting. New Orleans, Louisiana, October 2009**
“Ultrasound-guided blocks below the clavicle” (Workshop)
- **35th Annual Regional Anesthesia Meeting and Workshops. Toronto, Ontario, April 2010**
“Catheter confirmation: Determining correct catheter tip placement” (Lecture)
“Continuous upper and lower extremity nerve blocks” (Workshop)
“Continuous lower extremity nerve blocks” (Workshop)
“Continuous brachial plexus blocks above the clavicle” (Workshop)
“Ultrasound 101: Understanding the role of ultrasound physics and knobology in image acquisition”
- **7th Annual International Symposium of Ultrasound for Regional Anesthesia and Pain Medicine. Toronto, Ontario, June 2010**
“Literature review” (Lecture)
“High sciatic nerve approaches” (Workshop)
- **Canadian Anesthesiologists’ Society Annual Meeting. Montreal, Quebec, June 2010**
“Anesthesia assistant workshop: Upper and lower limb peripheral nerve block technique and testing”

PRABHU, A

- **Respiratory Therapy Society of Ontario Annual Meeting. Niagara Falls, Ontario, October 2009**
“Perioperative fluid therapy”
- **Anesthesia Grand Rounds, Korle-Bu Teaching Hospital. Accra, Ghana, April 2010**
“Anesthesia for awake craniotomy”

PRONOVOST, A

- **American Thoracic Society. New Orleans, Louisiana, May 2010**
“Quality assurance and improvement programs for critical care: Defining and measuring ICU performance, for postgraduate course 21: The science of healthcare delivery in the intensive care unit”
- **Canadian Anesthesiologists’ Society Annual Meeting. Montreal, Quebec, June 2010**
“Transcranial doppler (TCD): Overview and hands-on”

RIGAMONTI, A

- **Canadian Anesthesiologists’ Society Annual Meeting. Montreal, Quebec, June 2010**
“Transcranial doppler (TCD): Overview and hands-on” (Keynote)

SALMAN, A

- **Toronto Anesthesia Symposium. Toronto, Ontario, April 2010**
“Ultrasound imaging of lumbar spine for neuraxial anesthesia” (Workshop)

SIDDIQUI, N

- **Critical Care Obstetric Conference, University of Toronto Department of Obstetrics and Gynecology. Toronto, Ontario, September 2009**
“Pain management in critically ill obstetric patient”
- **Province Wide Sleep Rounds, Department of Neuro-Psychiatry and Sleep Medicine, University of Toronto, Toronto Western Hospital. Toronto, Ontario, October 2009**
“Narcotics: An anesthesiologists’ perspective of OSA”
- **7th Annual Mount Sinai Hospital Obstetric Anesthesia Conference. Toronto, Ontario, October 2009**
“Ultrasound for vascular access” (Workshop)
- **Anesthetic Practice. Toronto, Ontario, November 2009**
“Ultrasound for peripheral blocks/neuroaxial blocks and vascular access” (Workshop)
- **Critical Care Obstetric Anesthesia Care Fellowship Symposium. Toronto, Ontario, November 2009**
“Pain control in the critically ill obstetric patient”
- **The Aga Khan University Hospital. Pakistan, April 2010**
“Use of ultrasound in anesthesia: Practical demonstration”
- **Toronto Anesthesia Symposium. Toronto, Ontario, April 2010**
“Management of post-partum hemorrhage: PBLD tutor”
- **42nd Annual Society for Obstetric Anesthesia and Perinatology Meeting. San Antonio, Texas, May 2010**
“Comprehensive ultrasound workshop” (Session leader)
- **Session Leader, Regional Anesthesia Day, Department of Anesthesia, University of Toronto. Toronto, Ontario, June 2010**

SLINGER, P

- **Annual Meeting of the Mexican College of Anesthesiologists. Mexico City, Mexico, July 2009**
 - “New concepts in the management of one-lung ventilation”
 - “Lung isolation for thoracic surgery”
- **Medical Staff Rounds, King Faisal Hospital. Kigali, Rwanda, September 2009**
 - “Post-thoracotomy analgesia”
- **Annual Meeting American Society of Anesthesiologists. New Orleans, Louisiana, October 2009**
 - “Lung isolation: Bronchial blockers”
- **Visiting Professor, Department Anesthesiology, University of British Columbia. Vancouver, British Columbia, December 2009**
- **Annual Meeting of the Brazilian Society of Anesthesiologists. Salvador, Brazil, November 2009**
 - “Anesthesia for lung transplantation”
 - “Management of one-lung ventilation”
 - “Post-thoracotomy analgesia”
- **3rd Anesthesia Conference of Kuwait. Kuwait City, Kuwait, November 2009**
 - “Preoperative assessment for pulmonary resection”
 - “Lung isolation for thoracic surgery”
 - “Management of one-lung ventilation”
- **Annual Meeting of the Association of Cardio-Thoracic Anaesthetists. Blackpool, England, November 2009**
 - “Lung isolation in the patient with a difficult airway”
 - “Thoracic epidural analgesia is superior to paravertebral analgesia for post-thoracotomy pain”
- **Visiting Professor, Department of Anesthesiology, University of Rochester. Rochester, New York, February 2010**
- **Annual Meeting of the Indian Association of Cardio-Thoracic Anaesthetists. Kolkata, India, February 2010**
 - “New insights on management of one-lung ventilation”
 - “Management of unique complications of thoracic surgery”
 - “TEE for valve sparing aortic root aneurysms”
- **Annual New York Anesthesiology Review. Orlando, Florida, March 2010**
 - “Lung isolation”
 - “Management of one-lung anesthesia”
 - “Respiratory physiology”
- **MD Anderson Cancer Center, University of Texas. Houston, Texas, March 2010**
 - “TEE Assessment of cardiomyopathy”
 - “Intraoperative TEE workshop”
- **Visiting Professor, Department of Anesthesiology, Queens University. Kingston, Ontario, April 2010**
- **Annual Meeting of the Society of Cardiovascular Anesthesiologists. New Orleans, Louisiana, April 2010**
 - “Anesthesia for airway surgery”
 - “Anesthesia for lung transplantation”
- **Dannemiller Review Course in Anesthesiology. San Antonio, Texas, April 2010**
 - “Preoperative assessment”
 - “Lung isolation”
 - “One-lung ventilation”
 - “Mediastinal masses”
 - “Post-thoracotomy analgesia”
- **Asian Australasian Congress of Anesthesiologists. Fukuoka, Japan, May 2010**
 - “Management of one-lung ventilation”
- **Visiting Professor, Department of Anesthesia, Bern University Hospital. Bern, Switzerland, May 2010**
- **Thoracic Anesthesia Symposium, University of Lausanne. Lausanne, Switzerland, May 2010**
 - “Progress in lung isolation for thoracic surgery”
 - “New insights on management of one-lung ventilation”
- **Annual Meeting Canadian Anesthesiologists Society. Montreal, Quebec, June 2010**
 - “Bronchial blockers are not superior to double-lumen tubes for lung isolation”
- **Dannemiller Review Course in Anesthesiology. Chicago, Illinois, June 2010**
 - “Preoperative assessment”
 - “Lung isolation”
 - “One-lung ventilation”
 - “Mediastinal masses”
 - “Post-thoracotomy analgesia”

SPADAFORA, S

- **Making a Mark Conference. Toronto, Ontario, March 2010**
 - “Oral examination role play: An approach to avoiding common difficulties in oral examination performance”
 - “Panel discussion of sample oral exam questions” (Co-presenter)

- **Future of Medical Education in Canada Postgraduate Project National Meeting.** Toronto, Ontario, April 2010
“Academic consultant expert panel: Draft project charter”
“Environmental scan consultant: Draft project charter”
- **University of Toronto Psychiatry Program Postgraduate Retreat.** Toronto, Ontario, May 2010
“Postgraduate expansion and distributed medical education”
- **Canadian Conference on Medical Education.** Newfoundland, May 2010
“What does the future hold for residency training in Canada?”
- **31st Annual Shields Research Day Anesthesia.** Toronto, Ontario, May 2010
“Resident research posters” (Moderator)

SREBRNJAK, M

- **4th Annual Obstetric Anesthesia Day, Toronto Anesthetic Practice Meeting, Women’s College Hospital, University of Toronto.** Toronto, Ontario, November 2009
“Managing a woman with a platelet count of 80”

STEEL, A

- **Ontario Anesthesia Assistant Program Annual Meeting,** Toronto Western Hospital. Toronto, Ontario, November 2009
“Anesthesia beyond the operating department”
- **Teleconference Intensive Care Unit Rounds, Interdepartmental Division of Critical Care Medicine, University of Toronto.** Toronto, Ontario, February 2010
“Pulse contour analysis and perioperative optimization”
- **Cardiac Critical Care Rounds, Department of Anesthesia and Interdepartmental Division of Critical Care, University Health Network, Toronto General Hospital.** Toronto, Ontario, February 2010
“Cardiac output monitoring in the medical surgical intensive care unit”
- **University Health Network Rapid Response Symposium.** Toronto, Ontario, May 2010
“Reaching out with a rapid response”
“Critical care response simulator: Interactive session”

STEWART, D

- **King Saud University Health Conference.** Riyadh, Saudi Arabia, December 2009
“Women’s mental health”
“The importance of women’s health in the Middle East and North Africa”
- **Annual Meeting of the Indian Psychiatric Association.** Jaipur, India, January 2010
“The human rights of psychiatric patients”
- **Clinical Society of Reproductive Medicine.** Nanning, China, February 2010
“Reproductive choice: Who chooses?”
- **Latin American Congress of Women’s Health.** Medellin, Colombia, March 2010
“Pathways to resilient outcomes”
“New guidelines for antidepressants in pregnancy”

TARSHIS, J

- **Network of Excellence for Clinical Teaching and Learning.** Toronto, Ontario, October 2009
“Essentials of simulation”
“The frame of simulation: Briefing, debriefing and facilitation”
- **Sunnybrook Health Science Centre Department of Critical Care Rounds.** Toronto, Ontario, May 2010
“Pre-eclampsia and the ICU” (With Hui D)
- **Canadian Anesthesiologists’ Society Annual Meeting.** Montreal, Quebec, June 2010
“Simulation: From set-up to clean-up” (With Burjorjee J, Chiu M, Granton J)

THARMARATNAM, U

- **Toronto Anesthesia Symposium.** Toronto, Ontario, April 2010
“Ultrasound imaging of lumbar spine for neuraxial anesthesia” (Workshop)

TUMBER, P

- **The InterUrban Pain Association of Ontario and the Comprehensive Pain Program Toronto Western Hospital Conference.** Toronto, Ontario, October 2009
“Trigger point injections: What is the evidence for their effectiveness?” (Lecture)
“Practical and up-to-date principles of chronic non-cancer pain management”
- **University Health Network Department of Anesthesia and Pain Management,** Toronto Western Hospital. Toronto, Ontario, November 2009
“Ultrasound for pain medicine” (Workshop with Bellingham G)
- **Anesthesia Assistant Professional Development Day 2009,** Toronto Western Hospital. Toronto, Ontario, November 2009
“Management of acute on chronic pain”

- **Wasser Pain Management Centre Educational Rounds, Mount Sinai Hospital. Toronto, Ontario, November 2009**
“Trigger point injections: State of the art”
- **Greater Toronto Area Association of Hospital Medicine. Toronto, Ontario, December 2009**
“Acute pain management: In the hospital” (Lecture)
- **University of Toronto Department of Anesthesia, Toronto Western Hospital. Toronto, Ontario, January 2010**
“Chronic pain” (IMG tutorial)
- **University Health Network Department of Anesthesia and Pain Management, Toronto Western Hospital. Toronto, Ontario, January 2010**
“Ultrasound for pain medicine” (Workshop with Bellingham G)
- **Annual University of Toronto Undergraduate Interfaculty Education in Pain. Toronto, Ontario, March 2010**
“Pain: Putting the person at the centre”
- **Toronto Western Hospital Anesthesia Grand Rounds, Toronto Western Hospital. Toronto, Ontario, March 2010**
“APS: Old and new” (With Buzon A, Kastanias P, Veillette C)
- **Canadian Interventional Pain Course. Montreal, Quebec, March 2010**
“Sacroiliac joint and caudal epidural steroids” (Workshop with Avila A)
- **35th Annual Regional Anesthesia Meeting and Workshop, American Society of Regional Anesthesia. Toronto, Ontario, April 2010**
“Postoperative pain management of the patient using recreational drugs”
- **University Health Network Rapid Response Systems Meeting, Critical Care Response Team. Toronto, Ontario, May 2010**
“Management of postoperative pain”
- **7th Annual International Symposium on Ultrasound and Regional Anesthesia. Toronto, Ontario, June 2010**
“Ultrasound for chronic pain” (Workshop)
- **Canadian Anesthesia Society Annual Meeting. Montreal, Quebec, June 2010**
“Chronic pain and ultrasound” (Workshop leader with Peng P)
“Anesthesia assistants: Regional anesthesia and acute pain” (Workshop)

VEGAS, A

- **Transesophageal Echocardiography Educational Symposium, Toronto General Hospital. Toronto, Ontario, November 2009**
“Left ventricular assist devices”
- **Society of Cardiovascular Anesthesia Annual Meeting. New Orleans, Louisiana, April 2010**
“Acute ischemic complications”
- **Canadian Anesthesia Society Meeting. Montreal, Quebec, June 2010**
“Adult congenital heart patient for non-cardiac surgery”
“TEE: You never know what shows up”

WASOWICZ, M

- **Department of Anesthesia and Perioperative Medicine, University of Western Ontario. London, Ontario, April 2010**
“Thromboelastography and its applications in cardiac and non-cardiac surgery”
- **Committee for European Education in Anaesthesiology. Krakow, Poland, April 2010**
“Anesthesia for lung transplantation”
“Pre-operative assessment before thoracic surgery”
“The role of right ventricle in anesthesia and critical care”
“Acute respiratory distress syndrome: Patho-physiology and treatment modalities”
- **Perioperative Anesthesia Clinical Trials Group Meeting. Montreal, Quebec, June 2010**
“Use of volatile anesthesia after cardiac surgery”
“Comparison with standard propofol anesthesia”

WELLS, G

- **Petro-Canada Sport Leadership Conference. Vancouver, British Columbia, November 2009**
“The new competitive paradigm in international canoe kayak”
- **The Hospital for Sick Children Research in Progress Seminar Series. Toronto, Ontario, November 2009**
“Effects of remote preconditioning on exercise performance of elite swimmers”
“Factors affecting blood lactate accumulation and clearance in elite competitive swimmers during competition”
- **Physiology and Experimental Medicine Annual Research Meeting. Toronto, Ontario, March 2010**
“Exercise as medicine”
- **Maple Leaf Foods Annual Executive Conference. Huntsville, Ontario, May 2010**
“High performance techniques to enhance workplace performance” (Keynote)
- **Muscle Health Awareness Day Program, York University. Toronto, Ontario, May 2010**
“Muscle mitochondrial function is associated with physical activity and not obesity status in youth”
- **Biomechanics and Medicine in Swimming XI. Oslo, Norway, June 2010**

WONG, D

- **Annual Society for Airway Management Scientific Meeting. Las Vegas, Nevada, September 2009**
“Percutaneous vs. surgical cricothyroidotomy”
- **Southwestern Ontario Anesthesia Meeting Airway Workshop. London, Ontario, September 2009**
“Surgical airway: Are you ready?”
- **The Difficult Airway Course. Las Vegas, Nevada, October 2009**
“Airway morbidity/mortality in the OR”
“Surgical cricothyroidotomy”
- **American Society of Anesthesiologists Annual Meeting. New Orleans, Louisiana, October 2009**
“Basic adult fiberoptic laryngoscopy”
- **New York School of Regional Anesthesia World Anesthesia Congress. Dubai, March 2010**
“Tracheal intubation through supraglottic airways”
“Difficult airway management”
- **Society for Ambulatory Anesthesia 25th Annual Meeting. Baltimore, Maryland, April 2010**
“Anesthesia consult handbook”

WONG, J

- **Canadian Anesthesiologists Society Annual Meeting. Montreal, Quebec, June 2010**
“Postoperative recovery after ambulatory surgery and anesthesia”
“Acute postoperative pain abstracts” (Co-chair)

YOU-TEN, E

- **Research Rounds, Department of Vascular Surgery, Toronto General Hospital. Toronto, Ontario, September 2009**
“Role of noninvasive computer tomography coronary angiogram in predicting perioperative cardiac complications in noncardiac surgery”
- **Combined Grand Rounds, Department of Anesthesia, Mount Sinai Hospital–University Health Network. Toronto, Ontario, November 2009**
“Noninvasive computer tomography coronary angiogram in cardiac risk stratification in noncardiac surgery”
- **Annual Research Day, Network of Excellence in Simulation for Clinical Teaching and Learning. Toronto, Ontario, December 2009**
“Impact of technical skills on nontechnical skills in anesthesia crisis management”
- **Research Rounds, Department of Urology, Toronto General Hospital. Toronto, Ontario, December 2009**
“Preoperative noninvasive computer tomography coronary angiogram in cardiac risk stratification”

ZHANG, H

- **Toronto Region Research Alliance, MaRs Centre. Toronto, Ontario, August 2009**
“Acute lung injury”
- **Taiwan Society of Thoracic and Critical Care Medicine Annual Meeting. Taipei, Taiwan, December 2009**
“Acute lung injury and related systemic responses”
- **Visiting Professorship Lecture, Department of Thoracic Medicine, Kobe University School of Medicine. Kobe, Japan, January 2010**
“Lung immunity and injury”
- **Department of Intensive Care Medicine, Policlinico Universitario A. Gemelli Università Cattolica del Sacro Cuore. Rome, Italy, February 2010**
“Year in review in respiratory medicine”
- **Visiting Professorship Lecture, National Key Laboratory for Respiratory Medicine, Guangzhou Medical College. China, May 2010**
“Recent advance in ARDS and mechanical ventilation”
- **Annual Conference of Chinese Society of Critical Care Medicine. Wuhan, China, May 2010**
“Year in review in ARDS”
“Stem cell therapy in lung injury”

PEER-REVIEWED GRANTS

BAKER, AJ

2009-2016

Canadian Institute of Health Research

“From bench to bedside to curbside”

\$1,057,000

Co-investigator

Principal Investigator: Laurie Morrison

2007-2010

Department of National Defence: Defence Research and Development Canada

“Net -RandD: CNS blast injury”

\$358,170

Principal Investigator

BALKI, M

2009-2011

MSH UHN AMO Phase III Innovation Fund

“Assessment of critical skills of practicing anesthesiologists with high-fidelity obstetric anesthesia simulation”

Amount: \$75,958

Principal Investigator

Co-Investigators: Wax R, Carvalho J, Windrim R

BEATTIE, WS

2009-2011

Heart and Stroke Foundation of Canada

“Nitrous oxide anesthesia and cardiac morbidity after major surgery: A randomized controlled trial (ENIGMA II)”

\$160,000

Canadian Principal Investigator

Global Principal Investigator: Myles P

2009-2011

MSH-UHN Academic Medical Organization Innovation Funds

“Creating a comprehensive electronic perioperative information management system by extending the scope of innovative anesthesia preoperative assessment instrument”

\$196,020

Principal Investigator

2009-2011

MSH-UHN Academic Medical Organization Innovation Funds

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

\$172,000

Principal Investigator: You-Ten E

Co-Principal Investigators: Paul N, Beattie WS

Co-Investigators: Iwanochko R, Wijeyesundera D, Parker P

2010

Anesthesia Patient Safety Foundation (Eisai Research Award)

“The association between platelet inhibition and perioperative major adverse cardiac events in post-percutaneous coronary intervention patients undergoing non-cardiac surgery”

\$148,606

Principal Investigator: Wasowicz M

Co-Principal Investigators: Lavi R, Syed S, Karkouti K, Beattie WS

2010

Anesthesia Patient Safety Foundation

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

\$70,650

Principal Investigator: McCluskey S

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

CAMPBELL, F

2010-2015

Canadian Institutes of Health Research – Operating Grant

“The transition from acute postsurgical pain to chronic pain: The role of pain anxiety and parental influences in paediatric pain”

\$306,531

Principal Investigator: Katz J

Collaborators: Campbell F, Isaac L, Martin A, Page G, Stinson J

2008-2012

Canadian Institutes of Health Research

“Translating research on pain in children (TROPIC) study”

\$1,587,782

Principal Investigator: Stevens B

Collaborators and Site Investigators: Stevens B, Lee S, Estabrooks C, Barwick M, Campbell F, Chambers C, Cummings G, Finley A, Johnston C, Kavanagh P, Latimer M, LeMay S, McGrath P, Rashotte J, Scott-Findlay S, Stremmer R, Stinson J, Synnes A, Willan A, Yamada J

2004-2011

CIHR Team Grant Program

“CIHR team in children’s pain”

\$4,054,611

Principal Investigator: Stevens B

Collaborators: CIHR Team in Children’s Pain; Lee S, Estabrooks C, Barwick M, Campbell F, Chambers C, Cummings G, Finley A, Johnston C, Kavanagh P, Latimer M, LeMay S, McGrath P, Rashotte J, Scott-Findlay S, Stremmer R, Stinson J, Synnes A, Willan A, Yamada J

CHAN, V

2009-2010

Physicians Services Incorporated Foundation

“Validating the efficacy of a task specific checklist versus a global rating scale in evaluating the proficiency of ultrasound guided supraclavicular nerve blocks in operators at various levels of training”

\$19,000

Co-investigator

Principal Investigator: Hayter M

2009

Anesthesia Patient Safety Foundation/American Society of Anesthesiologists President’s Endowed Research Award

“Gastric ultrasonography: A non-invasive tool to determine gastric volume. Development of a quantitative model”

\$28,000

Co-investigator

Principal Investigator: Perlas A

CHUNG, F

2009-2010

The Physicians’ Services Incorporated Foundation

“The impact of anesthesia and surgery on apnea hypopnea and oxygen saturation in patients with obstructive sleep apnea, and its relation to perioperative adverse events”

\$82,000

Principal Investigator

CLARKE, H

2009-2012

Canadian Institutes of Health Research

“Fellowship award in the category of health professionals award”

\$150,000

Principal Investigator

2009-2014

National Institutes of Health – Operating Grant

“University Health Network’s application to join the A2ALL Consortium RFA-DK-09 00: Adult to adult living donor liver transplantation cohort study”

\$1,500,000

Principal Investigator: Grant D

Collaborators: Abbey S, Adcock L, Clarke H, Holtzman S, Katz J, Levy G

COOPER, R

2010

Society for Airway Management Research Award

"Comparison of the forces required for direct and video laryngoscopy (GlideScope): A manikin study"

\$4,500

Principal Investigator

FISHER, JA

2010

United Mitochondrial Disease Foundation

"Efficacy of L-arginine therapy on vasodilation and mitochondria in MELAS syndrome"

\$75,000

Principal Investigator: Tien I

Collaborators: Fisher J, Wells R, Mikulis D, Noseworthy M, Faghfoury H

2010-2015

Ontario Research Fund for Research Excellence

"Retinal oxygen saturation, blood flow vascular function and high resolution morphometric imaging in the living human eye"

\$2,478,074

Principal Investigators: Hudson C, Flanagan J, Fisher JA, Trope G

2010

United Mitochondrial Disease Foundation

"Efficacy of L-arginine therapy on vasodilation and mitochondria in MELAS syndrome"

\$75,000

Principal Investigator: Tien I

Collaborators: Fisher J, Wells G, Mikulis M, Noseworthy M, Faghfoury F

GAGLIESE, L

2007-2012

Canadian Institutes of Health Research - Operating Grant

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

\$644,687

Principal Investigators: Rodin G, Zimmerman C

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

2007-2012

Canadian Breast Cancer Research Alliance - Operating Grant

"Age-related patterns in pain following breast cancer surgery"

\$747,485

Principal Investigator

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

2005-2010

Canadian Institutes of Health Research - Operating Grant

"The quality of death in metastatic cancer and its relationship to antecedent factors and primary caregiver morbidity"

\$509,303

Principal Investigator: Rodin G

Co-investigators: Hales S, Gagliese L, Zimmermann C

HALPERN, S

April 1 2010 - March 31, 2011

Canadian Institutes of Health Research

"Labour position trial 2"

\$100,000

Principal Investigators: Hodnett ED, Stremler RL

Co-Investigators: Halpern SH, Willan AR, Windrim R

HARE, GMT

2010-2012

Society of Cardiovascular Anesthesiologists

"Determining the hemoglobin threshold for hypoxic cellular responses: Studies in anemic hypoxia inducible factor (HIF)-ODD-Luciferae Mice"

\$100,000

Principal Investigator

2010-2011

Innovation Fund

“Novel measurements of tissue oxygen tension to improve clinical outcomes in cardiopulmonary resuscitation”

\$30,000

Principal Investigator

2010-2012

Physicians' Services Incorporated Foundation

“ β 1-Adrenergic antagonists impair murine and human resistance artery function”

\$160,000

Principal Investigator

HOLTBY, H

2009-2012

Heart and Stroke Foundation of Ontario

“The effect of remote ischemic preconditioning on clinical and genomic responses to open heart surgery in children”

\$885,634

Principal Investigator: Redington A

Co-Investigators: Caldarone CA, Holtby H, Schwartz SM, Van Arsdell S, Coles JG, Ly LG, Scherer SW

2009-2012

Canadian Institutes of Health Research

“Clinical assessment of thrombosis in children after heart surgery: The CATCH study”

\$885,441

Principal Investigator: McCrindle BW

Co-Investigators: Holtby H, Van Arsdell G, Chan A, Brandao L

2009-2011

Heart and Stroke Foundation

“Antithrombin may improve clinical outcome through a reduction in the required heparin dose by promoting efficient anticoagulation in infants undergoing cardiopulmonary bypass for cardiac surgery”

\$337,864

Principle Investigator: Gruenwald C

Co-Investigators: Holtby H, Van Arsdell G, Chan A, Brandao L

JADAD, AR

2009-2010

Citizenship and Immigration Canada

“Youth4Health: An engagement initiative to support newcomer youth leaders as navigators for health”

\$1,300,000

Principal Investigator

Co-Investigator: Norman C

2008-2011

Canadian Institutes of Health Research

“Canadian program of research on ethics in a pandemic (CanPREP): Whose risks, whose duties, and what priorities?”

\$1,967,252

Co-Investigators: Upshur R, Wilson K, Douglas M, Jadad AR, et al

2008-2015

Canadian Institutes of Health Research

“CIHR Centre in HIV prevention social research”

\$2,094,915

Co-Investigators: Calzavara L, Adrien A, Getty A, Grace A, Godin G, Mayers T, Tyndall M, Worthington C, Jadad AR, et al

2009-2014

Canada Foundation for Innovation

“Inclusive design institute”

\$8,070,236

Co-Investigators: Treviranus J, Jadad AR, Diamond S, Fells D et al

2009-2011

Canadian Institutes of Health Research

“End-user support in the implementation of Electronic Health Records in primary care: A case study of early adopters”

\$94,670

Co-Investigators: Shachak A, Jadad AR, et al

2009-2010

Interprofessional Care/Education Fund at Health Force Ontario

“Interprofessional model of practice for aging and complex treatments (IMPACT)”

\$500,000

Co-Investigators: Nickel L, Jadad AR, et al

2009-2015

Canadian Institutes of Health Research

“CIHR strategic training program on health care, technology and place”

\$1,950,000

Investigators: Coyte PC, Andrews G, Upshur R, Baecker RM, Bayoumi A, Boydell K, Jadad AR, et al

2009-2015

Canadian Institutes of Health Research

“CIHR strategic training program in the social aetiology of mental illness”

\$1,783,890

Investigators: McKenzie K, Samuel N, Jadad AR, Barwick MA, et al

2009-2015

Canadian Institutes of Health Research

“CIHR strategic training program on the health applications of cell signaling in mucosal inflammation and pain”

\$1,950,000

Investigators: Ellen RP, McCulloch C, Jadad AR, et al

KARKOUTI, K

2009-2011

Heart and Stroke Foundation of Canada

“Advance targeted transfusion in anemic cardiac surgical patients for kidney protection (ATTACK):

A proof of concept pilot study”

\$98,102

Principal Investigator

KATZ, J

2010-2015

Canadian Institutes of Health Research - Operating Grant

“The transition from acute postsurgical pain to chronic pain: The role of pain

Anxiety and Parental Influences in Paediatric Pain”

\$367,836

Principal Investigator

Co-Applicants: Campbell F, Isaacs L, Martin AL, Pagé G, Stinson J

Collaborators: Wright J, Flora D, Cooper L

KAVANAGH, BP

2008-2013

Canadian Institutes of Health Research

“Therapeutic potential of hepoixilin analogues - operating grant”

\$620,000

Co-Principal Investigator with Post M

2008-2013

Canadian Institutes of Health Research

“Ventilator-induced lung Injury: Linking gene activation, physiology and outcome - Operating Grant”

\$643,000

Principal Investigator

Co-Investigator: Post M

2009-2014

Canadian Institutes of Health Research

“Preclinical assessment of therapeutic hypercapnia - Operating Grant”

\$563,000

Principal Investigator

MAZER, CD

2010-2011

Canadian Blood Services

“Platelet transfusion and cardiac surgery”

\$14,923

Co-investigator

MCCLUSKEY, S

2010

Anesthesia Patient Safety Foundation

“Virtual anesthesia: An online simulation of intra-operative hemodynamic management in major surgical procedures”

\$75,000

Principal investigator

Co-Investigator: Tait G

2010

Anesthesia Patient Safety

“Virtual anesthesia: An online simulation of intra-operative hemodynamic management in major surgical procedures”

\$70,650

Principal Investigator

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

MORGAN, P

2008-2010

Network of Excellence in Simulation for Clinical Teaching and Learning

“Faculty development for simulation for clinical teaching and learning”

\$83,990

Co-Investigators: Leslie K, Reeves S, LeBlanc V, Lingard L, Morgan P, Naik V, Ballon B, Satterthwaite L, Robb A, Silver I, Pittini R, Cop S, Bandali K, Dubrowski A

2009-2010

Alternate Funding Plan Innovation Fund

“Patient safety: Introduction of the surgical safety checklist and patient outcome assessment in an academic ambulatory hospital”

\$30,000

Principal Investigator

Co-Investigators: Kronberg J, Semple J

NIAZI, A

2009-2010

The University of Toronto Dean's Fund Fall 2009 Competition

“Ultrasound assisted assessment of airway to predict difficult intubation”

\$10,000

Principal Investigator: Prasad A

Co-Investigators: Chan V, Niazi A

ORSER, B

2009-2014

Canada Research Chair in Anesthesia Tier 2

“Anesthetic drugs: From molecular mechanisms to patient safety”

\$500,000

Principal Investigator

2008-2013

Canadian Institutes of Health Research

“Tonic GABAergic regulation of memory and plasticity”

\$826,305

Principal Investigator

2006-2011

Canadian Institutes of Health Research

“The role of GABAA receptors in anesthetic-induced impairment of memory and consciousness”

\$595,895

Principal Investigator

2004-2010

Canadian Institutes of Health Research

"A multi-institutional evaluation of a checklist intervention to structure communication and promote patient safety in the operating room"

\$456,729

Collaborator

Principal Investigator: Lingard L

PERLAS, A

2010

Canadian Anesthesiologists' Society/GE Healthcare Canada Research Award in Perioperative Imaging

"Bedside ultrasound assessment of gastric volume. Validating a mathematical model using gastroscopic examination"

\$30,000

Principal Investigator

PRASAD, A

2010

University of Toronto Deans Fund competition for new academic staff:

"Ultrasound assisted assessment of airway to predict difficult intubation"

\$10,000

Principal Investigator

Co-applicants: Chan V, Wong D, Eu E

RIGAMONTI, A

2010

Fonds de la Recherche en Santé du Québec (FRSQ)/Canadian Intensive Care Foundation (CICF)

"Early determination of neurological prognosis in ICU patients with severe traumatic brain injury: TBI prognosis pilot study multicentre observational study"

\$175,000

Principal Investigator

2009-2010

PSI Foundation

"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)"

\$120,000

Principal Investigator

SAFA, B

2008-2011

PSI Foundation

"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"

\$50,000

Principal Investigator

Co-investigators: McCartney C, Gollish J

SIDDIQUI, N

2009-2011

MSH UHN AMO Phase III Innovation Fund

"Responding to the ASRA (American Society of Regional Anesthesia) challenge - Should gowning be the standard of practice for epidural anesthesia: A randomized control trial"

\$94,035

Principal Investigator

Co-Investigators: Friedman Z, McGeer A, Davies S

SPADAFORA, S

2009-2010

Health Canada - Association of Faculties of Medicine of Canada

"Future of medical education in Canada postgraduate phase"

\$300,000

Project Coordinators: Verma S, Spadafora S, Meteresian S, Rungta K

STEWART, DE

2006-2011

Canadian Institutes of Health Research

“Cardiovascular secondary prevention for vulnerable populations: an interdisciplinary approach to improving access to services and outcomes (Cardiac Rehabilitation care Continuity through Automatic Referral Evaluation (CRCARE))”

\$455,037

Principal Investigators: Grace SL, Stewart DE

Co-Applicants: Alter DA, Anand SS, Bunkers S, Gupta M, Harvey PJ, Holder G, Kaur R, Oh P, Rukholm EE, Rush JW, Scholey PE, Williamson KM

2009-2010

Canadian Institutes of Health Research

“Developing population interventions for migrant perinatal health equity”

Principal Investigator: Gagnon AJ

\$78,900

Co-Applicants: Carnevale F, Dennis C, Rousseau H, Stewart DE, Wahoush O

2010-2011

Canadian Institutes of Health Research

“Understanding and measuring the construct of irritability in men and women”

\$98,940

Principal Investigator: Holtzman S

Co-Applicants: Barata P, Stewart DE

2010-2012

Canadian Institutes of Health Research

“New mothers in a new country: Understanding postpartum depression among recent immigrant and Canadian-born Chinese women”

\$557,208

Principal Investigator: Dennis CL

Co-Applicants: Fung K, Gagnon A, Grigoriadis S, Noh S, Stewart DE

2009-2013

Canadian Institutes of Health Research

“Centre for research development in gender, mental health and violence across the lifespan”

\$2,000,000

Principal Investigators: MacMillan HI, Stewart DE, Coben J, Herrman HE, Wathen CN

Co-Applicants: Afifi TO, Ahmad F, Barata PC, Barlow N, Boyle MH, Chamberland C, Chartier MJ, Collin-Vezina D, Diaz-Granadas N, Donelle LF, Dudding P, Edleson JL, Erickson PG, Feder G, Ford-Gilboe MV, Gagnon AJ, Georgiades KK, Gonzales A, Hegadoren KM, Hegarty KL, Jack SM, Jackson BE, Jenkins R, Kelleher KJ, Kothari AR, Olds DL, Oliffe JL, Sareen J, Schmidt LA, Sibbald SL, Thombs BD, Tonmyn LE, Trocme N, Varcoe CM, Waddell CA, Wekerle CM

2009-2010

Canadian Institutes of Health Research

“Measuring and understanding gender equity in access to care”

\$78,021

Principal Investigator: Brown AD

Co-Applicants: Abramson B, Bierman A, Davis D, Laporte A, Levinton C, Maclean H, Mahomed N, Stewart DE, Wilson C

2009-2010

Canadian Breast Cancer Research Alliance

“A systematic review of screening for psychosocial factors in breast cancer”

\$200,000

Co-Investigator

Principal Investigator: Thombs B

2009-2015

Canadian Institutes of Health Research

“Strategic training program for the social etiology of mental illness”

\$1,790,000

Principal Investigator: McKenzie K

Co-Applicants: McKenzie K, Barwick M, Fulford B, George T, Gliksman L, Hodges B, Jadad A, Knapp M, Muntaner C, Noh S, Van Os J, Shaykam Y, Toner B, Ross L, Stewart, DE

2008-2011

Canadian Institutes of Health Research

“Comparing paper versus electronic transmission of cardiac rehabilitation summaries to primary care physicians: A multi-site multi-method study of information flow and content (the CR2DoC study)”

\$324,697

Principal Investigator: Grace SL

Co-Applicants: Suskin N, Arthur HM, Prior P, Reid R, Stewart DE

2007-2010

Canadian Institutes of Health Research

“Neurochemical aspects of depression in women: Monoamine oxidase A in the postpartum period”

\$309,000

Principal Investigator: Meyer JH

Co-Applicants: Houle S, Stewart DE, Wilson AA

2007-2011

International Development Research Centre

“Political violence, natural disasters and mental health outcomes: Developing innovative health policies and interventions”

\$1,599,542

Co-Principal Investigators: Pedersen D, Lopez V, Sharma B, Piazza M, Chamindra Weerackody LP, Kirmayer LJ, Rousseau C, Young A, Guzder J, Stewart DE

Co-Applicants: Anckerman S, Flores MA, deVillagran M, Garcia HA, Chavez C, Jordans M, Kohrt B, Thapa S, Tol W, Castillo H, Cueva G, Mendoza M, Matos L, Calderon D, Rivera M, Fernando S, Amarasuriya H, Fernando S, Zarate CAJ

SZABO, E

The Hospital for Sick Children Research Institute

“Scientist-Track Investigator Funds”

\$540,000

Principal Investigator

WASOWICZ, M

2010-2012

Canadian Anesthesiologists' Society-Career Scientist Award

“Expanding the role of the anesthesiologist beyond the operating room”

\$120,000

Principal Investigator

WELLS, G

2010-2012

Canadian Gene Cure Foundation

“Study to Investigate the efficacy of L-arginine therapy on endothelium-dependent vasodilation and mitochondrial metabolism in heteroplasmic patients with MELAS syndrome”

\$75,000

Principal Investigator: Tein I

Co-Investigator: Wells G

2010-2013

Canadian Institutes of Health Research, Circulatory and Respiratory Health

“The biology of chronic preconditioning: Genomic and physiologic mechanisms of response”

\$109,691

Co-Principal Investigators: Wells G, Redington A

2010-2012

Ontario Neurotrauma Foundation

“Proof of principle and pilot studies: Neuroimaging of dual task performance in youth after mild traumatic brain injury”

\$98,052

Co-Investigators: Wells B, Knightley M

WONG, D

2009-2010

PSI Foundation

"Does Boussignac CPAP compared to venturi mask improve oxygenation and pulmonary function in morbidly obese patients undergoing bariatric surgery?"

\$46,000

Principal investigator

YOU-TEN, E

2009-2011

MSH UHN AMO Phase III Innovation Fund

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

\$185,000

Principal Investigator: You-Ten E

Co-Principal Investigators: Paul N, Beattie WS

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

2009-2010

Network of Excellence in Simulation for Clinical Teaching and Learning Research Grant

"Patient simulator-based education for teaching anesthesia residents cognitive and interpersonal non-technical skills for the management of life-threatening airway crisis: Impact of technical skills of cricothyrotomy"

\$21,900

Principal Investigator

Co-Investigators: Friedman Z, Naik V

2009-2010

The Physicians Services Incorporated Foundation

"Clinical impact of cricothyrotomy on the proficiency of non-technical skills in management of life threatening airway crisis in a full scale high fidelity patient simulator"

\$11,950

Principal Investigator

Co-Investigators: Friedman Z, Naik V

ZHANG, H

2006-2011

Canadian Institutes of Health Research - Operating Grant

"LPS internalization and ICAM-1 signaling in the pathogenesis of sepsis"

\$530,605

Principal Investigator

2005-2010

Premier's Research Excellence Award

"Targeting ICAM-1/LFA-1 interaction in reducing sepsis-induced lung injury"

\$159,000

Principal Investigator

2005-2010

Canadian Institutes of Health Research - New Investigator Award

"Human neutrophil peptides in lung inflammation"

\$301,125

Principal Investigator

2009

Foreign Affairs and International Trade Canada

"Research collaboration in critical care medicine"

\$17,868

Principal Investigator

NON-PEER REVIEWED GRANTS

ARZOLA, C

University of Ottawa, Faculty of Medicine, Educational Initiatives in Residency Education Grant fund, Educational Anesthesia Research

“Addressing a challenging gap in the curriculum: Teaching professionalism using simulation”

\$9,200

Principal Investigator

Co-Investigators: Siddiqui N, You-Ten E, Friedman Z, Naik V

CHUNG, F

2009-2010

Resmed Foundation

“A prospective matched care control observation study on postoperative oxygen desaturation among the patients with diagnosed OSA and the patients identified as high risk of OSA by questionnaire”

\$80,000

Principal Investigator

2009-2010

Pfizer Pharma

“A double blind randomized placebo controlled study for smoking cessation in preadmission clinic: The use of a teachable moment”

\$160,000

Principal Investigator

CAMPBELL, F

2010-2011

Pfizer

“An Interprofessional clinical learning experience for healthcare trainees”

\$50,000

Principal Investigators: Hunter J, Stinson J

Collaborators: Campbell F, Gueorgueiva V, Stevens B, Lowe M, Simmons B, Parker K, Tallett S

DAVIES, S

Abbott Laboratories

“Online continuing education website development”

\$2,250

Principal Investigator

HARE, GMT

2010-2012

Forest Research Institute Inc.

“Nebivolol maintains tissue oxygen delivery during acute hemodilution”

\$110,338

Principal 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)”

\$140,000

Principal Investigator

2009

Thornhill Research Moves Project

“Short term use of portable life support and monitoring in the course of patient transport and stabilization- phase 2 human testing”

\$45,000

Co-Investigator

Principal Investigator: Wasowicz, M

2008-2010

Novo-Nordisk

“Investigating the relationship between factor XIII levels and blood loss in cardiac surgery. A multi-centre, prospective, observational study.”

\$182,000

Principal Investigator

2007-2010

Novo-Nordisk

“Development and maintenance of the Canadian hemostasis registry for the off-label use of rFVIIa”

\$500,000

Principal Investigator

KATZNELSON, R

2010-2011

Interrad Medical Inc.

“SecurAcath study: Subcutaneous intravenous catheter securement study”

\$85,000

Co-Investigator

Principal Investigator: Cooper R

MAZER, CD

2009 – 2010

Cubist Pharmaceuticals Inc.

“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 graft surgery”

\$197,184

Site Investigator

2009-2010

Novo Nordisk

“A multi-centre, randomized, double blind, placebo controlled trial on efficacy and safety of FXIII replenishment with two different doses of recombinant factor XIII following cardiopulmonary bypass surgery”

\$159,237

Site Investigator

MCCARTNEY, C

2009-2010

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”

\$145,000

Co-investigator

Principal investigator: Clarke H

NAIK, VN

2010

TOHAMO Innovation Grant

“Simulation-based education versus didactic teaching sessions for sterile technique training for anesthesia practitioners”

\$13,300

Co-Investigators: Fraser A, Chiu M, Crooks S, Thomas K, Naik V

2009

Academy for Innovation in Medical Education

“Simulation assisted oral examination for anesthesia certification in Canada”

\$20,500

Co-Investigators: Arab AA, Cherry RA, Tarshis J, O’Leary S, Lee AC, Naik VN

2009

Academy for Innovation in Medical Education

“Assessing residents’ disclosure of adverse events: Simulated scenario versus standardized patient”

\$15,500

Co-Investigators: Posner GD, Nakajima AK, Varpio L, Naik VN

WELLS, G

2010-2012

Labatt Family Heart Centre Innovation Fund

“Cardiac and skeletal muscle metabolism in Fontan children. The effect of acute and chronic exercise”

\$47,600

Co-Investigator

Principal Investigator: McCrindle B

2010

Canadian Chiropractic Protective Association

“Changes in vertebral artery and posterior cerebellar artery blood flow with spinal manipulation: An MRI study”

\$24,000

Co-Principal Investigator: Triano J

2009-2010

Research Program in Applied Sport Sciences

“Study to monitor performance trends in international beach volleyball competition”

\$8,000

Principle Investigator



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