## TABLE OF CONTENTS

- **Chair's Introduction** /2
- **Vision, Mission and Values** /3
- **Anesthesia Leadership** /4
  - Department Committees /5
  - Faculty and Affiliated Hospitals /6
- **Strategic Plan 2009-2014: Progress** /7
- **Recognition of Excellence: Honors, Awards, Chairs and Promotions** /9
  - UT Anesthesia Departmental Merit Awards /11
  - New Investigator Awards /13
  - Faculty Promotions and Recognition /15
- **Enhancing Clinical Practice: Report from the Vice Chair, Clinical Practice** /18
  - Clinical Statistics: Fully Affiliated Hospitals /19
- **Building Upon Our Education Mission: Report from the Vice Chair, Education** /20
  - Undergraduate Education Programs /21
  - Postgraduate Education Programs /23
    - Residents 2009-2010 /24
  - Fellowship Education Programs /25
    - Anesthesia Fellows 2009-2010 /26
  - Continuing Education and Professional Development Programs /28
    - Annual Faculty Development Day 2009 /29
- **Research Programs: Report from the Vice Chair, Research** /30
  - Annual Shields Research Day 2010 /32
- **Publications** /33
  - Peer-Reviewed Publications /33
  - Non Peer-Reviewed Publications /44
  - Chapters in Books /44
- **Invited Lectures** /45
- **Research Funding** /65
  - Peer-Reviewed Grants /65
  - Non Peer-Reviewed Grants /75
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 VISION
THE PROVISION OF SAFE AND INNOVATIVE ANESTHETIC, ANALGESIC, PERIOPERATIVE AND CRITICAL ILLNESS MANAGEMENT FOR OUR PATIENTS.

OUR MISSION
THE DELIVERY AND PROMOTION OF PREEMINENT PERIOPERATIVE PATIENT CARE THROUGH CONTINUED VIGILANCE, INNOVATION, AND SCHOLARSHIP.

OUR VALUES
OUR VALUES ARE THE PRINCIPLES BY WHICH WE GUIDE OUR MISSION AND REFLECT THE VALUES ARTICULATED BY OUR UNIVERSITY FACULTY AND OUR CORE CLINICAL INSTITUTIONS. WE CHERISH THE FOLLOWING VALUES:

• INTEGRITY;
• COMMITMENT TO INNOVATION AND EXCELLENCE;
• LIFE-LONG LEARNING AND CRITICAL INQUIRY;
• DIVERSITY AND SOCIAL JUSTICE;
• PARTNERSHIP WITH OUR HEALTH SCIENCE CENTERS;
• COLLABORATION AMONG DISCIPLINES, PROFESSIONS, AND IN OUR COMMUNITY;
• SUPPORT AND COLLEGIALITY;
• ACCOUNTABILITY; AND,
• RESPONSIVENESS TO THOSE WHOM WE SERVE.
ANESTHESIA LEADERSHIP

OFFICE OF THE CHAIR AND ADMINISTRATION

Dr. Brian Kavanagh Chair
Dr. Gerald O’Leary Vice Chair, Clinical Practice
Dr. Patricia Houston Vice Chair, Education
Dr. David Mazer Vice Chair, Research
Ms. Wendy Kubasik Business Manager

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  
Dr. Kathleen Dattilo  
Dr. Howard Fischer  
Dr. Marianne Graham  
Dr. Stephen Halpern/Mojgan Davallou  
Dr. Vaibhav Kamble  
Dr. Henderson Lee  
Dr. Bill Middleton/Sunita Sastry  
Dr. Elaine Ng

St. Michael’s Hospital  
UHN (Toronto General Hospital)  
Mount Sinai Hospital  
Sunnybrook Health Sciences Centre  
Women’s College Hospital  
Toronto East General Hospital  
Family Practice Anesthesia Program  
UHN (Toronto Western Hospital)  
The Hospital for Sick Children

FELLOWSHIP EDUCATION PROGRAMS

Dr. Doreen Yee  
Ms. Jennifer Morris

Director, Fellowship Programs  
Program Assistant

SITE COORDINATORS

Dr. Jose Carvalho  
Dr. Stephen Halpern  
Dr. Jane Heggie  
Dr. Paul McHardy  
Dr. Mary McLoone  
Dr. Atul Prabhu  
Dr. Gail Wong  
Dr. Eric You-Ten

Mount Sinai Hospital (Obstetric Anesthesia)  
Women’s College Hospital  
UHN (Toronto General Hospital)  
Sunnybrook Health Sciences Centre  
St. Michael’s Hospital  
UHN (Toronto Western Hospital)  
The Hospital for Sick Children  
Mount Sinai Hospital

CONTINUING EDUCATION AND PROFESSIONAL DEVELOPMENT

Dr. Peter Slinger  
Dr. Zeev Friedman  
Dr. Peter Slinger/Martin van der Vyver

Chair  
Chair, Annual Shields Research Day 2010  
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  

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 listserv 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
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 Interprofessional 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 **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 **Dr. John Desmond Award** recognizes excellence in clinical teaching of undergraduate students: **Dr. Isabella Devito** (Assistant Professor, Mount Sinai Hospital)

- The **Dr. Gerald Edelst 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 Wijeysundera 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 Wijeysundera, 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:**

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Hospital</th>
<th>Project Title</th>
<th>Award Value/Annum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duminda Wijeysundera</td>
<td>UHN-Toronto General Hospital</td>
<td>Evaluating preoperative anesthesia care in Ontario at a population-based level</td>
<td>$ 80,000</td>
</tr>
<tr>
<td>Scott Beattie</td>
<td>UHN-Toronto General Hospital</td>
<td>Perioperative outcomes research program</td>
<td>$ 60,000</td>
</tr>
<tr>
<td>David Mazer</td>
<td>St. Michael’s Hospital</td>
<td>Translational studies of mechanisms of renal dysfunction following cardiopulmonary bypass</td>
<td>$ 40,000</td>
</tr>
<tr>
<td>Andrew Baker</td>
<td>St. Michael’s Hospital</td>
<td>Analysis of shockwave blast parameters on cytoskeletal alterations and neuronal function</td>
<td>$ 40,000</td>
</tr>
<tr>
<td>Keyvan Karkouti</td>
<td>UHN-Toronto General Hospital</td>
<td>Advance targeted transfusion in anemic cardiac surgical patients for kidney protection</td>
<td>$ 40,000</td>
</tr>
<tr>
<td>Joseph Fisher</td>
<td>UHN-Toronto General Hospital</td>
<td>Translation of new noninvasive monitoring techniques from the bench to the bedside</td>
<td>$ 40,000</td>
</tr>
<tr>
<td>Greg Hare</td>
<td>St. Michael’s Hospital</td>
<td>Characterizing physiological and cellular mechanisms which reduce brain injury and promote survival</td>
<td>$ 40,000</td>
</tr>
<tr>
<td>George Djaiani</td>
<td>UHN-Toronto General Hospital</td>
<td>Reducing delirium after cardiac surgery: A multifaceted approach of perioperative care</td>
<td>$ 40,000</td>
</tr>
<tr>
<td>Pamela Morgan</td>
<td>Women’s College Hospital</td>
<td>Obstetric team training and surgical safety checklist introduction</td>
<td>$ 40,000</td>
</tr>
<tr>
<td>Pam Angle</td>
<td>Women’s College Hospital</td>
<td>Multi-centered RCT examining the effect of small vs. large Tuohy-type epidural needles on PDPH</td>
<td>$ 40,000</td>
</tr>
</tbody>
</table>
### Research Merit Awards continued.....

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

### EDUCATION AND CPA MERIT AWARDS:

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

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<tr>
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<tr>
<td>Massimiliano Meineri</td>
<td>UHN-Toronto General Hospital</td>
<td>Virtual cardiac imaging</td>
<td>$20,000</td>
</tr>
<tr>
<td>Annette Vegas</td>
<td>UHN-Toronto General Hospital</td>
<td>Cardiac anesthesia fellows’ manual</td>
<td>$20,000</td>
</tr>
</tbody>
</table>

**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:

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

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

**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.
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;
• 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
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

<table>
<thead>
<tr>
<th>Name</th>
<th>Name</th>
<th>Name</th>
</tr>
</thead>
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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 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:

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

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.
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

<table>
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#### Mount Sinai Hospital

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#### UHN-Toronto General Hospital

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**UHN-Toronto Western Hospital**

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**Women's College Hospital**

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**Anesthesia Annual Report 2009-2010**

27
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

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

Annual Weber Lecture  | May 2010  | Beverley Morningstar
31st 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.

<table>
<thead>
<tr>
<th>University of Toronto Field</th>
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<th>AAU² All Rank</th>
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¹ 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

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Anesthesi A Annu Al Repo Rt 2009-2010 | 31

Yale 107
Calif - San Diego 107
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
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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

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

ANESTHESIA ANNUAL REPORT 2009-2010 | 31
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**


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


Baker AJ. What is the role of extracorporeal membrane oxygenation for hypoxic failure during an influenza pandemic? *Canadian Journal of Anaesthesia* 57:201-205, 2010


Balki M, Cristian a, Kingdom J, Carvalho JCA. Oxytocin pretreatment of pregnant rat myometrium reduces the efficacy of oxytocin but not of ergonovine maleate or prostaglandin F2 alpha. *Reproductive Sciences* 17:269-277, 2010


Chin KJ, Singh M, Velayutham V, Chee V. Infraclavicular brachial plexus block for regional anaesthesia of the lower arm. *Cochrane Database of Systematic Reviews* 17:2:CD005487, 2010


Cooper RM. Reducing the complications associated with video laryngoscopy. *Anesthesia and Analgesia* 111:244, 2010


Gurd JW, Macdonald JF, Orser BA. Biochemical fractionation and mass spectroscopy of α-aminoisobutyric acid type A receptors containing the 5 subunit. *Journal of Neuroscience Research* 87:1737-1747, 2009


Hare GMT, Baker JE, Mazer CD. Perioperative management of acute and chronic anemia: Has the pendulum swung too far? *Canadian Journal of Anesthesiology* 56:183-189, 2009


Gurd JW, Macdonald JF, Orser BA. Biochemical fractionation and mass spectroscopy of α-aminoisobutyric acid type A receptors containing the 5 subunit. *Journal of Neuroscience Research* 87:1737-1747, 2009


Hare GMT, Baker JE, Mazer CD. Perioperative management of acute and chronic anemia: Has the pendulum swung too far? *Canadian Journal of Anesthesiology* 56:183-189, 2009


Karsli C, Der T. Tracheal intubation in older children with severe retro/micrognathia using the glidescope cobalt infant video laryngoscope. *Paediatric Anaesthesia* 20:577-578, 2010


Kavanagh BP. The GRADE system for rating clinical guidelines (perspective) *PloS Medicine* 6: e1000094, 2009


Li GH, Jackson MF, Orser BA, MacDonald JF. Reciprocal and activity-dependent regulation of surface AMPA and NMDA receptors in cultured neurons. *International Journal of Physiology, Pathophysiology and Pharmacology* 2:47-56, 2010


Martin AL, Katz J. Inclusion of authorized deception in the informed consent process does not affect the magnitude of the placebo effect for experimentally induced pain. *Pain* 149:208-215, 2010


Martin LJ, Oh GHR, Orser BA. Etomidate targets D5GABAA receptors to regulate synaptic plasticity and memory blockade. *Anesthesiology* 111:1025-1035, 2009

Martin LJ, Jackson MF, Ju W, Macdonald JF, Roder JC, Orser BA. D5GABAA receptor activity sets the threshold for long-term potentiation and constrains hippocampus-dependent memory. *Journal of Neuroscience* 30:5269-5282, 2010


Osborn I, Behringer E, Cooper RM, Verghese C. Detecting the etiologies of acute airway obstruction associated with the Supreme™ LMA. Anesthesiology 111:452-453, 2009


Perlas A, Drull R, Chan V. In response to Dr. Borgeat. Regional Anesthesia and Pain Medicine 34:622-623, 2009


<table>
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<tr>
<th>Title</th>
<th>Authors</th>
<th>Journal/Conference</th>
<th>Publication Date</th>
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<tr>
<td>Arterial oxygen saturation during tracheal intubation in infants, children, and adolescents: a simple procedural guidance for their performance.</td>
<td>Stewart DE, Venos E, Ashraf IJ</td>
<td>Paediatric Anaesthesia</td>
<td>2009</td>
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<td>Early tracheal intubation. A prospective observational study in 742 patients.</td>
<td>Sivanaser V, Manninen P</td>
<td>Anesthesiology Research and Practice</td>
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<td>Differences in the control of breathing between Andean highlanders and lowlanders after 10-days acclimatization at 3,850m.</td>
<td>Skrobik Y, S Ahern, M Leblanc, F Marquis, DK Awissi, Kavanagh BP</td>
<td>Journal of Physiology</td>
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<td>Differences in the chemoreflex control of breathing between Himalayan and sea-level residents.</td>
<td>Shachak A, Jadad AR</td>
<td>Journal of Physiology</td>
<td>2010</td>
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<td>Electronic health records in the age of social networks and global telecommunications.</td>
<td>Shachak A, Jadad AR</td>
<td>Journal of the American Medical Association</td>
<td>2010</td>
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<td>Clinical sonopathology for the regional Anesthesiologist. Part I:</td>
<td>Sites BD, MacFarlane AJR, Sites VR, Naraghi AM, Chan VWS, Antonakakis JG, Singh M, Brull R</td>
<td>Regional Anesthesia and Pain Medicine</td>
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<td>Ultrasound in regional anesthesia: Where should the “focus” be set?</td>
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Tinmouth AT, Hare GM, Mazer CD. The “sticky” business of “adherence” to transfusion guidelines. *Intensive Care Medicine* 36:1138-1146, 2010


Tousignant C, Bowry R, Cruz JD, Mazer CD. Induction of general anesthesia does not affect right ventricular function in cardiac surgical patients: A tissue Doppler assessment. *Anesthesia and Analgesia* 56:757-762, 2009


Vargas-Caballero M, Martin MJ, Saltor MW, Orser BA, Paulsen O. a5 subunit-containing GABAA receptors mediate a slowly decaying synaptic current in CA1 pyramidal neurons. *Neuropsychopharmacology* 58:668-675, 2010

Vegas A, Meineri M. Core review: three-dimensional transesophageal echocardiography is a major advance for intraoperative clinical management of patients undergoing cardiac surgery: A core review. *Anesthesia and Analgesia* 110:1548-1573, 2010


Vigod S, Stewart DE. Acute management of sexual assault. *Focus* 7:184-185, 2009

Vigod SN, Stewart DE. Emergent research in the cause of mental illness in women across the lifespan. *Current Opinion in Psychiatry* 22:396-400, 2009


NON PEER-REVIEWED PUBLICATIONS


CHAPTERS IN BOOKS


Spadafora SM, Fuller JG. Practical Rules of Engagement: Responding to Learners Experiencing Difficulty. Springer Berlin Heidelberg, 2010


Wells GD, Falenshuk, O, Vescovi JD. Factors Affecting Blood Lactate Accumulation and Clearance in Elite Competitive Swimmers During Competition. In Biomechanics and Medicine in Swimming XI.

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

  “Ultrasound guided upper limb block” (Workshop instructor)
  “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. Kolkata, 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
  “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”
  “Non cardic 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
  “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)
  “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. Schwezingen, 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”
  “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”

  “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”

  “Infracavicular 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: Infracavicular and axillary blocks; basic spine imaging”

CHUNG, F

  “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?”

  “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 Teórico-Práctico De Manejo de la Vía del la via Aérea e Intubación Difícil. Valencia, Spain, February 2010; and, Anesthesia Society of Cataluña, Hospital de Bellvitge, Universitat 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 Chandighar. 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 Marihuana - 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

  “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

  “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

  “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)
  “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”
- CONGRESS National de la Sociedad Espanola de Farmaceuticos de AtencionPrimaria. Seville, Spain, October 2009
  “ehealth e innovacion: nuevos entornos assistencia-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, Dhallana 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?”
  “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

  “Prediction of red blood cell transfusion in cardiac surgery”
  “Use of novel hemostatic agents in cardiac surgery”
  “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”
  “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?”
  “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)

KAJ, 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 Heath 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 Anesthesia 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 placentaion”
• 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”
<table>
<thead>
<tr>
<th>MCCARTNEY, C</th>
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<tbody>
<tr>
<td>• American Society of Regional Anesthesia and Pain Medicine Excellence in Ultrasound Workshops. Seattle, Washington, July 2009</td>
</tr>
<tr>
<td>“Brachial plexus blocks below the clavicle” (Lecture)</td>
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<tr>
<td>• Regional Anesthesia and Pain Medicine. Niagara, Ontario, August 2009</td>
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<tr>
<td>“Ultrasound-guided regional anesthesia” (Workshop)</td>
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<tr>
<td>“Ultrasound below the clavicle” (Lecture)</td>
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<tr>
<td>• Visiting Professor, University of Western Ontario. London, Ontario, September 2009</td>
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<tr>
<td>“Can regional anesthesia improve patient outcomes” (Lecture)</td>
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<tr>
<td>“Avoiding complications of peripheral nerve blocks” (Lecture)</td>
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<tr>
<td>• American Society of Anesthesiologists. New Orleans, Los Angeles, October 2009</td>
</tr>
<tr>
<td>“Ultrasound-guided peripheral nerve blocks” (Workshop)</td>
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<tr>
<td>• Australasian Society for Ultrasound in Regional Anaesthesia. Brisbane, November 2009</td>
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<tr>
<td>“Ultrasound for interscalene block” (Keynote)</td>
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<tr>
<td>“Ultrasound for infraclavicular block” (Keynote)</td>
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<tr>
<td>“Evidence-base for ultrasound guided upper extremity blocks” (Keynote)</td>
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<td>“Ultrasound for femoral, obturator and saphenous nerve blocks” (Keynote)</td>
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<td>“Ultrasound for sciatic nerve block” (Keynote)</td>
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<tr>
<td>“Ultrasound for peripheral nerve blocks” (Workshop)</td>
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<tr>
<td>• American Society of Regional Anesthesia and Pain Medicine Excellence in Ultrasound Workshops. Miami, Florida, January 2010</td>
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<tr>
<td>• American Society of Regional Anesthesia and Pain Medicine Spring Meeting. Toronto, Ontario, April 2010</td>
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<tr>
<td>“Optimizing functional outcome for upper extremity orthopedic surgery” (Lecture)</td>
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<tr>
<td>“Upper extremity comprehensive” (Workshop)</td>
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<td>“Intensive ultrasound” (Workshop)</td>
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<tr>
<td>• University College. London, United Kingdom, May 2010</td>
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<tr>
<td>“Has ultrasound changed the way we perform regional anesthesia?” (Lecture)</td>
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<td>“Should ultrasound be the technique of choice for upper extremity blocks?” (Lecture)</td>
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<td>“Ultrasound” (Workshop)</td>
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<td>• Ski and Scan Ultrasound Meeting. Lake Louise, Alberta, March 2010</td>
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<tr>
<td>“Introduction to ultrasound” (Lecture)</td>
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<td>“Avoiding complications of regional anesthesia” (Lecture)</td>
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<tr>
<td>• Canadian Anesthesiologists’ Society. Montreal, Quebec, June 2010</td>
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<tr>
<td>“Lower limb blocks masterclass” (Workshop)</td>
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<td>“Trunk blocks” (Workshop)</td>
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<tr>
<td>• Anesthesia Residents and Fellows Rounds, Toronto General Hospital. Toronto, Ontario October 2009</td>
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<tr>
<td>“Fluid Therapy for Dummies”</td>
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<td>• North York General. Toronto, Ontario, November 2009</td>
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<td>“Fluid therapy; The right stuff for obstetrics”</td>
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<td>• William Osler. Brampton, Ontario, April 2010</td>
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<td>“Normal saline: Is it worth the salt?”</td>
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<td>• Toronto Anesthesia Symposium. Toronto, Ontario, April 2010</td>
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<td>“Fluid therapy: Just right”</td>
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<tr>
<td>• The Great Canadian Fluid Debate. Montreal, Quebec, June 2010</td>
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<tr>
<td>“Fluid compartments: The basics and update”</td>
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<th>MCHARDY, P</th>
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<tr>
<td>• Toronto Anesthesia Practice. Toronto, Ontario, November 2009</td>
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<tr>
<td>“Regional anesthesia” (Workshop)</td>
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<tr>
<td>• Canadian Anesthesia Society. Montreal, Quebec, June 2010</td>
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<tr>
<td>“Ultrasonomography of the lower limb” (Workshop)</td>
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<th>MCRAE, K</th>
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<tr>
<td>• Combined Rounds, Department of Anesthesia and the Division of Thoracic Surgery, University Health Network. Toronto, Ontario, June 2010</td>
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<tr>
<td>“Two cases of neurological deficits after thoracic surgery”</td>
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<th>MEINERI, M</th>
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<tr>
<td>• 7th Annual Toronto Perioperative Transesophageal Echocardiography Educational Symposium. Toronto, Ontario, November 2009</td>
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<tr>
<td>“TEE for transplant surgery”</td>
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<tr>
<td>• Transplant Rounds, Universita’ degli Studi di Milano. Milan, Italy, May 2010</td>
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<tr>
<td>“TEE for lung transplant surgery”</td>
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• 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 Anesthesiologist’s 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
  “DDC: 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

  “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 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)
  “SI Joint, Piriformis and SI nerve root injection” (Workshop)
  “Ultrasound of low back and pelvis” (Lecture)
  “Lumbar spine, sacrum, SJ 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)
  “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
  “Ultrasoundography 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. Clinica 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”
  “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

  “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)

SIDDQUI, 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/neuraxial blocks and vascular access” (Workshop)
- Critical 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”
  - “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”
  - “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”

SPADAFFORA, 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)
<table>
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<tr>
<th>Event</th>
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<tr>
<td>Future of Medical Education in Canada Postgraduate Project National</td>
<td>“Academic consultant expert panel: Draft project charter”</td>
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<td>“Environmental scan consultant: Draft project charter”</td>
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<tr>
<td>University of Toronto Psychiatry Program Postgraduate Retreat.</td>
<td>“Postgraduate expansion and distributed medical education”</td>
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<td>Toronto, Ontario, May 2010</td>
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<tr>
<td>Canadian Conference on Medical Education. Newfoundland, May 2010</td>
<td>“What does the future hold for residency training in Canada?”</td>
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<td>31st Annual Shields Research Day Anesthesia. Toronto, Ontario, May 20</td>
<td>“Resident research posters” (Moderator)</td>
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<td>University of Toronto Psychiatry Program Postgraduate retreat.</td>
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<td>Toronto, Ontario, May 2010</td>
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<td>4th Annual Obstetric Anesthesia Day, Toronto Anesthetic Practice</td>
<td>“Managing a woman with a platelet count of 80”</td>
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<td>Meeting, Women’s College Hospital, University of Toronto. Toronto,</td>
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<td>Ontario, November 2009</td>
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<tr>
<td>Ontario Anesthesia Assistant Program Annual Meeting, Toronto Western</td>
<td>“Anesthesia beyond the operating department”</td>
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<tr>
<td>Hospital. Toronto, Ontario, November 2009</td>
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<tr>
<td>Teleconference Intensive Care Unit Rounds, Interdepartmental Division</td>
<td>“Pulse contour analysis and perioperative optimization”</td>
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<tr>
<td>of Critical Care Medicine, University of Toronto. Toronto, Ontario,</td>
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<td>February 2010</td>
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<tr>
<td>Cardiac Critical Care Rounds, Department of Anesthesia and</td>
<td>“Cardiac output monitoring in the medical surgical intensive care unit”</td>
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<td>Interdepartmental Division of Critical Care, University Health</td>
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<td>Network, Toronto General Hospital. Toronto, Ontario, February 2010</td>
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<td>University Health Network Rapid Response Symposium. Toronto, Ontario</td>
<td>“Reaching out with a rapid response”</td>
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<td>, May 2010</td>
<td>“Critical care response simulator: Interactive session”</td>
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<td>King Saud University Health Conference. Riyadh, Saudi Arabia,</td>
<td>“Women’s mental health”</td>
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<tr>
<td>December 2009</td>
<td>“The importance of women’s health in the Middle East and North Africa”</td>
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<td>January 2010</td>
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<td>2010</td>
<td>“Pathways to resilient outcomes”</td>
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<td>Latin American Congress of Women’s Health. Medellin, Colombia, March</td>
<td>“New guidelines for antidepressants in pregnancy”</td>
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<td>Network of Excellence for Clinical Teaching and Learning. Toronto,</td>
<td>“Essentials of simulation”</td>
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<tr>
<td>Ontario, October 2009</td>
<td>“The frame of simulation: Briefing, debriefing and facilitation”</td>
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<tr>
<td>Sunnybrook Health Science Centre Department of Critical Care Rounds.</td>
<td>“Pre-eclampsia and the ICU” (With Hui D)</td>
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<td>Toronto, Ontario, May 2010</td>
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<tr>
<td>Canadian Anesthesiologists’ Society Annual Meeting. Montreal, Quebec,</td>
<td>“Simulation: From set-up to clean-up” (With Burjorjee J, Chiu M, Granton J)</td>
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<td>June 2010</td>
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<tr>
<td>Toronto Anesthesia Symposium. Toronto, Ontario, April 2010</td>
<td>“Ultrasound imaging of lumbar spine for neuraxial anesthesia” (Workshop)</td>
</tr>
<tr>
<td>The InterUrban Pain Association of Ontario and the Comprehensive</td>
<td>“Trigger point injections: What is the evidence for their effectiveness?”</td>
</tr>
<tr>
<td>Pain Program Toronto Western Hospital Conference. Toronto, Ontario,</td>
<td>“Practical and up-to-date principles of chronic non-cancer pain management”</td>
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<tr>
<td>October 2009</td>
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<tr>
<td>University Health Network Department of Anesthesia and Pain</td>
<td>“Ultrasound for pain medicine” (Workshop with Bellingham G)</td>
</tr>
<tr>
<td>Management, Toronto Western Hospital. Toronto, Ontario, November 20</td>
<td></td>
</tr>
<tr>
<td>Anesthesia Assistant Professional Development Day 2009, Toronto Western</td>
<td>“Management of acute on chronic pain”</td>
</tr>
<tr>
<td>Hospital. Toronto, Ontario, November 2009</td>
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</tbody>
</table>
• 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”
  “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”
  “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, Wijeysundera 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

2004-2011
*CIHR Team Grant Program*
“CIHR team in children’s pain”
$4,054,611
Principal Investigator: Stevens B

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
**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

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**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 F

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

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**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

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**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

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**HARE, GMT**

2010-2012  
*Society of Cardiovascular Anesthesiologists*  
“Determining the hemoglobin threshold for hypoxic cellular responses: Studies in anemic hypoxia inducible factor (HIF)-ODD-Lucifersae 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
“β1-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

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: Holby 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
Principal Investigator: Gruenwald C
Co-Investigators: Holby 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

2008-2015
Canadian Institutes of Health Research
“CIHR Centre in HIV prevention social research”
$2,094,915

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

2009-2015
*Canadian Institutes of Health Research*
“CIHR strategic training program in the social aetiology of mental illness”
$1,783,890

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

**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 hepoxilin 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

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

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
Co-investigators: McCartney C, Gollish J

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

SIDDQUI, N

2009-2011

MSH UHN AMO Phase III Innovation Fund
“Responding to the ASRA (American Society of Regional Anesthesia) challenge – Should gowns be the standard of practice for epidural anesthesia: A randomized control trial”
$94,035
Principal Investigator
Co-Investigators: Friedman Z, McGeer A, Davies S

SPADAFFORA, 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
STEWARD, 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

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

2009-2010
Canadian Institutes of Health Research
“Measuring and understanding gender equity in access to care”
$78,021
Principal Investigator: Brown AD

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
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

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, Wijeysundera 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, Gueorgueva 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

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
Principal Investigator