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Welcome to the 2012-13 Annual Report of the Department of Anesthesia at the University of Toronto. This report is built around our department’s Strategic Plan devised in 2009 and updated several times since. You will see as you read through the document how we focus on advancement, advocacy and alumni programs, and academic productivity in education, teaching and research.

I bring your attention to multiple facets of the report covering a sustained and heavy clinical case load, a growing faculty base, an expanding research mandate and a high volume of the highest quality of education and teaching commitments.

You will see recognition of excellence for education and research for faculty, fellows and residents. In addition to the competitive merit awards please note that two of our new faculty won the Mentored Research Awards from the International Anesthesia Research Society (two of four available worldwide). We have several reports from our Vice-Chairs and program leaders covering clinical practice, education (including fellowship, undergraduate and residency), faculty development and research, and in research our sustained ranking is again apparent as we consistently rank Best in Canada and Number Two in publicly funded universities in North America (Thomson Reuters ranking). This is based on a broad spectrum of high caliber original research, which in turn is supported by an increasing spectrum of competitive peer-reviewed funding.

Please dip into this report; we believe it places our profession on a high and improving trajectory. I thank all of our faculty and program leaders in the university and hospital departments, our administrative staff led by Dr. Craig Daniels and in particular, Dr. David Mazer who covered last year during my administrative leave.

I hope you enjoy this report and learn from it and understand how ultimately, the work we do enhances patient care.

Regards,

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 centres;
- 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 Executive
- **Chair**: Dr. Brian Kavanagh
- **Acting Chair (November 2012-November 2013)**: Dr. David Mazer
- **Vice Chair, Clinical Practice**: Dr. Gerald O'Leary
- **Vice Chair, Education**: Dr. David McKnight
- **Vice Chair, Research**: Dr. David Mazer
- **Business Manager**: Dr. Craig Daniels
- **The Hospital for Sick Children**: Dr. Mark Crawford
- **Sunnybrook Health Sciences Centre**: Dr. Sue Belo
- **St. Michael’s Hospital**: Dr. John Laffey
- **Mount Sinai and Women’s College Hospital**: Dr. Gerald O’Leary

## Undergraduate Education Programs
- **Director**: Dr. Isabella Devito
- **Preclerkship Coordinator**: Dr. Diana Tamir
- **Simulation Coordinator**: Dr. Anita Sarmah
- **Program Assistant**: Mr. Gary Cronin
- **OSCE Committee Representative**: Dr. Marjan Jariani

## Site Coordinators
- **UHN (Toronto General Hospital)**: Dr. Marjan Jariani
- **UHN (Toronto Western Hospital)**: Dr. Ahtsham Niazi
- **Sunnybrook Health Sciences Centre**: Dr. Anita Sarmah
- **Mount Sinai Hospital**: Dr. Patrick Mark
- **The Hospital for Sick Children**: Dr. Clyde Matava
- **Credit Valley Hospital**: Dr. Christopher Flynn

## Postgraduate Education Programs
- **Director**: Dr. Mark Levine
- **Family Practice Anesthesia Coordinator**: Dr. Beverly Morningstar
- **Anesthesia Simulator Coordinator**: Dr. Megan Hayter
- **Resident Counselor**: Dr. David McKnight

## Site Coordinators
- **St. Michael’s Hospital**: Dr. Deven Chandra
- **Women’s College Hospital**: Dr. Dragan Djordjevic
- **Mount Sinai Hospital**: Dr. Mital Joshi
- **St. Michael’s Hospital**: Dr. Carol Loffelmann
- **Mount Sinai Hospital**: Dr. Howard Fischer
- **Mount Sinai Hospital**: Dr. Aliya Salman
- **Mount Sinai Hospital**: Dr. Marianne Graham
- **Women’s College Hospital**: Dr. Kamal Hussain
- **Women’s College Hospital**: Dr. Arun Prasad
- **Toronto East General Hospital**: Dr. Vaibhav Kamble

## Fellowship Education Programs
- **Director**: Dr. Doreen Yee
- **Program Assistant**: Ms. Jennifer Morris

## Site Coordinators
- **Obstetric Anesthesia**: Dr. Jose Carvalho
- **UHN (Toronto General Hospital)**: Dr. Coimbatore Srinivas
- **UHN (Toronto Western Hospital)**: Dr. Paul McHardy
- **St. Michael’s Hospital**: Dr. Andrea Rigamonti
- **UHN (Toronto Western Hospital)**: Dr. Ki Jinn Chin
- **Hospital for Sick Children**: Dr. Ilavajady Srinivasan
- **Mount Sinai Hospital**: Dr. Naveed Siddiqui

## Continuing Education and Professional Development
- **Chair**: Dr. Peter Slinger
- **Chair, Annual Shields Development Day**: Dr. Zeev Friedman
- **Chair, Faculty Development Day 2013**: Dr. Martin van der Vyver
Department Committees

Executive Committee
BP. Kavanagh (Chair), S. Belo, M. Crawford, C. Daniels (Secretary), J. Laffey, D. McKnight, D. Mazer (Acting Chair, Nov 2012-13), G. O’Leary.

Education Council
D. McKnight (Chair), I. Devito, BP. Kavanagh, M. Levine, J. Morris (Secretary), P. Slinger, M. van der Vyver, D. Yee.

Department Appointments Committee
B. Macpherson (Chair), C. Daniels (Secretary), S. Halpern, M. O’Driscoll, A. Perlas, J. Wassermann.

Promotions Committee
P. Morgan (Chair), S. Beattie, R. Brull, M. Crawford, V. Chan, F. Chung, C. Daniels (Secretary), G. Hare, J. Katz, BP. Kavanagh (ex-officio), J. Laffey, D. Mazer, B. Orser, J. Tarshis.

Undergraduate Education Committee
I. Devito (Chair), V. Chinnappa, M. Choi, G. Cronin (Secretary), H. El Beheiry, C. Flynn, D. Irwin, M. Jariani, M. Joshi, BP. Kavanagh, S. Lilker, C. Loffelmann, P. Mark, H. Meng, C. Matava, D. McKnight, A. Niazi, L. Panos, A. Sarmah, E. Sui, A. Talimieister, D. Tamir, D. Thakrar.

Postgraduate Education

Fellowship Education

Continuing Medical Education/Professional Development

Research Committee

Shields Day 2013 Planning Committee
Z. Friedman (Chair), G. Cronin, C. Daniels, BP. Kavanagh, J. Morris.

Faculty Development Day 2012 Planning Committee
M. van der Vyver (Chair), G. Cronin, C. Daniels, BP. Kavanagh, C. Matava, J. Morris, S. Riazi.

Faculty Development Committee
M. van der Vyver (Chair), BP. Kavanagh, S. Lilker, D. McKnight, C. Matava, M. O’Driscoll, S. Riazi, P. Slinger, E. You-Ten, C. Daniels.

Faculty and Affiliated Hospitals

The University of Toronto and thus, the Department of Anesthesia, has full affiliation agreements with 7 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
- Credit Valley Hospital
- Humber River Regional Hospital
- Lakeridge Health
- Markham-Stouffville Hospital
- North York General Hospital
- Royal Victoria Hospital (Barrie)
- The Scarborough Hospital
- Southlake Regional Health Centre
- St. Joseph’s Health Centre (Toronto)
- Toronto East General Hospital
- Trillium Health Centre

We are proud to have built strong relationships with several community-affiliated hospitals. Our clerks and residents participate in educational programs at these hospitals, at which we have more than 100 part-time faculty members. Our community affiliates include:
Progress: Strategic Plan 2009-2014

In 2012-2013, the UT Department made further advances with the implementation of the strategic priorities outlined in our Strategic Plan 2009-2014 (www.anesthesia.utoronto.ca/about/strategy.htm). We have made significant progress in all of the priorities, including:

**PRIORITY 1: Advancement, Advocacy and Alumni Programs**

Dr. Stephen Brown, President of the UT Anesthesia Alumni Association and the Alumni Committee (Dr. Doreen Yee, Dr. Charles Knapp, Dr. John Hanlon, Dr. Ann Grise and Dr. Richard Ahn) have been very active. An Alumni Reunion was planned for the Annual General Meeting of the Canadian Anesthesiologists Society in June 2013 in Calgary; however this event and conference was cancelled due to the flood. In order to continue our Alumni engagement we scheduled an additional Alumni Event at the OMA meeting in Niagara Falls in September 2013. We have also begun planning another Alumni Association sponsored event in April 2014 to recognize the long service of faculty members and to celebrate the careers of recent retirees from the UT Department of Anesthesia - we hope all can attend!

The Department of Anesthesia Alumni Association previously developed and implemented an alumni database and email listserv which includes contact information for more than a thousand of our alumnus across Canada. A communications program has been implemented, and our alumni receive information such as our strategic plan, annual report, and invitations to major events and lectures.

In addition, our advancement campaign is underway, through the office of Advancement in the Faculty of Medicine and the Alumni Committee utilized the results of the Alumni Survey to develop strategies to begin implementation of new initiatives.

**PRIORITY 2: Academic Productivity – Measurement and Accountability**

In 2011 the continued development and implementation of this priority was taken on more broadly by the Faculty of Medicine, through the Office of Research and International Relations and Discovery Commons. Over the last few years the Faculty of Medicine through Discovery Commons have developed, trialed and implemented the WebCV format for faculty CV’s. The application of this new CV format came to the Department of Anesthesia in late 2012 and will essentially create an online database to collect data on teaching and research activities including the metrics to measure performance. The goal has been to develop a streamlined, simplified yet comprehensive report format that can be adopted across all of the hospital sites. On a faculty-wide level all Senior Promotion candidates will need to use WebCV for future promotion applications; fortunately the WebCV system will simplify the generation of reports and tables required during the promotions cycle – we therefore encourage our entire full-time clinical faculty to maintain an up-to-date WebCV.

**PRIORITY 3: Facilitating Educators**

The goals of this strategic priority are now well underway and continue to be driven forward under the leadership of Dr. David McKnight, Vice Chair Education, and the Education Council – comprised of the Directors of our education programs and the department Chair.

Dr. Martin van der Vyver, Director of Faculty Development Programs, has continued with the organization of our annual Faculty Development Day which was held on November 12, 2012 – more than 85 of our faculty and fellows attended this event. Further details on
the event are available in the report from Dr. Martin van der Vyver. The growth and further development of this important event has been a key priority and its continued success has now made Faculty Development Day an essential regular feature of our annual program.

Additional awards to recognize outstanding teaching and faculty development contributions were also created, both in the university departments and the hospitals. These include the New Faculty Teaching Excellence Award and the award for Best Oral Presentation and People's Choice Awards (Poster and Oral) at the annual Faculty Development Day event.

Small evening workshops have also being organized to help facilitate educators; in February 2013 we held a Senior Promotions Workshop and in May 2013 we held a Career Development Workshop for both junior and senior faculty. We have also been working hard to better integrate our faculty in the affiliated community hospitals into the University of Toronto community. Our Faculty Development Programs have been extended to the community sites. An event was held in September 2012 for our faculty at the Mississauga sites and there was a follow-up event in 2013.

**PRIORITY 4: Facilitating Learners – Global Health Issues and Social Responsibility in Anesthesia**

In 2012–2013, we continued to concentrate on the development of a global health and social responsibility program in anesthesia. Dr. Greg Silverman is driving this initiative working closely with Dr. Alison Macarthur to make significant headway in the continued implementation of the Toronto Addis Ababa Academic Collaboration (TAAAC).

The University of Toronto, Department of Anesthesia is responsible for organizing 3 separate month-long teaching missions to Addis Ababa University (AAU) in Ethiopia. The purpose of these trips is to provide ongoing educational support to the anesthesia faculty at AAU who are responsible for delivering both undergraduate and postgraduate teaching. This initiative is going a long way toward realising our objective to “Initiate educational programs to train anesthesiologists and relevant allied health professionals overseas with an aim of establishing self-sustaining educational systems.”

The department also recently introduced a Travel Reimbursement Award to cover airfare and immunisations for fellows or residents who are accepted to participate in this initiative. For further details please contact the UofT Anesthesia office.

**PRIORITY 5: Research**

The cornerstone of this priority since 2009 has been our competitive, peer-reviewed Merit Awards Program to fund time through the practice plans for our researchers and educators to conduct academic activities. The goal is to facilitate world-class research that has both translational and global impact. Our success in this area is outlined in the report provided by Dr. David Mazer, Vice Chair of Research.

In addition, we also held an Interim Merit Award competition in the spring of 2012 in order to fund new faculty members prior to the next full competition. The recipients of all merit awards are listed in this report and our third biennial competition was held in early 2013 with the new recipients of the awards starting in July, 2013.

In late 2012 we ran our inaugural “UT Anesthesia Clinician-Scientist Transition Award.” This is a major new award designed to attract outstanding early career Clinician-Scientists to the University of Toronto. This competition (a single award of up to $50,000 per year tenable up to 3 years) will provide a component of the funding to provide protected time for a prospective faculty Clinician-Scientist. The purpose of the award is to develop a cadre of Academic Clinician Scientists in Anesthesia and to facilitate rapid progression of outstanding fellows and residents on an academic career track.

In 2013 we also effected two major new, competitive, one-time-only competitions, “Multicentre Inter-Hospital Clinical Trials Grant” and “Translational Research Grant.” These competitions were developed in order to provide seed funding for a major clinical trial or translational research program led by full-time faculty members in our department. The goal of the awards is to support high-impact, world-class research projects that will attract additional, substantial, peer-reviewed operating grant funding.
Recognition Of Excellence: Honours, Awards, Chairs and Promotions

The following University department awards were presented at the 34th Annual Shields Research Day 2013:

- The Dr. R.J. Byrick Award recognizes the best fellow’s research paper presented at the Annual Shields Research Day: Husni Alakkad (Fellow, UHN-Toronto Western 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: Paul Whissell (Sunnybrook Health Sciences Centre).
- The Dr. Hynek Rothbart Award for the best paper presented by a Resident at the Annual Shields Research Day: Mark McVey (Resident, PGY-4).
- The Thomas Donald Hammell Memorial Award in Anesthesia is awarded in recognition of outstanding contributions to the Residency Program, as chosen by other residents: Christopher Perkes.
- The UT David Bevan Best Shields Day Poster Award: Dianshi Wang (Fellow, Sunnybrook Health Sciences Centre).
- The Dr. Evelyn Bateman Award is awarded in recognition of excellence in anesthesia at the undergraduate level: Eric Siu (Medical Student – Peters-Boyd Academy).
- The Award for Clinical Excellence is awarded by the UT Department of Anesthesia to full or part-time faculty members in the department within each of the fully or partially affiliated hospitals and their respective sites who has been judged by the department’s faculty, fellows and residents to be an outstanding clinician within the Anesthesia community: Simon Abrahamson (St. Michael’s Hospital), Andrew Roscoe (Toronto General Hospital), Ivor Fleming (Mount Sinai Hospital), Ricky Brull (Women’s College Hospital), Glenn McGuire (Toronto Western Hospital), Bruce Macpherson (The Hospital for Sick Children), Vicky McCarthy (St. Joseph’s Health Centre).

The following University department teaching awards were also bestowed in 2012-2013:

- The Dr. John Desmond Award recognizes excellence in clinical teaching of undergraduate students: Dr. Anita Sarmah (Sunnybrook Health Sciences Centre).
- The Dr. Gerald Edelist Award is awarded to a faculty member in recognition of excellence as a clinical teacher of residents in anesthesia: Dr. Sophia Wong (Sunnybrook Health Sciences Centre).
- The Dr. David Fear Award is awarded for outstanding contributions to continuing medical education and continuing professional development in the Department of Anesthesia: Dr. Jose Carvalho (Mount Sinai Hospital).
- The Interprofessional Teaching Award recognizes outstanding teaching both within and outside of the anesthesia community: Dr. Ki Jinn Chin (Toronto Western Hospital).
- The winners of the Laws Travel Fellowship 2013 were: Dr. Zoe Unger and Dr. Azad Mashari.
- Tuition awards for our residents and fellows – to fund graduate level education programs – were also presented to: Drs. Tina Kerelska, James Khan, Teresa Skelton, Sheldon Lyn.

Congratulations to UT Anesthesia Department members on their success at the Canadian Anesthesiologists’ Society Annual Meeting:

- Dr. Andrew Baker – 2013 CAS Research Recognition Award. The CAS Research Recognition Award honours a senior investigator who has sustained major contributions in anesthesia research in Canada.
- Dr. Deven Chandra – 2013 John Bradley Young Educator Award. This Award is named in memory of one of our beloved and exceptional former colleagues and is awarded for excellence and effectiveness in education in anesthesia.
- Dr. Mrinalini Balki - CAS Career Scientist Award in Anesthesia.
- Dr. R. A. Gordon Research Award.
- Dr. Hance Clarke – Baxter Corporation Canadian Research Award in Anesthesia.
- Dr. Jason Maynes – Canadian Anesthesiologists’ Society Research Award.
- Dr. Jose Carvalho and colleagues (M. Khan, M. Balki, I. Ahmed, D. Farine, G. Seaward) for winning first prize in the CAS Richard Knill Competition for their presentation entitled “Carbetocin at elective cesarean delivery: a randomized controlled trial to determine the effective dose, part 3-final.”
Best Paper Winners:

- Award for Best Paper in Ambulatory Anesthesia: Dr. Waleed Riad Soliman, 
  Abstract Title: Propofol induction: Bis vs lean body weight for morbid obese.
- Award for Best Paper in Neuroanesthesia: Dr. Jigesh Mehta, 
  Abstract Title: Cerebrovascular CO2 Reactivity Under Propofol: A Systematic Review.
- Award for Best Paper in Obstetric Anesthesia: Dr. Nhathien Nguyen-Lu, 
  Abstract Title: Controversies Between Anesthesiologists and Obstetricians On The Labor Ward: A Delphi Technique-Based Consensus.

Global Health Leadership:

Congratulations to members of the Department of Anesthesia on their graduation in the 2013 class of the U of T Global Health Education Initiative. Four of the group completing the course were trainees in anesthesiology:

David Goodick (PGY2)
Clara Ho (PGY2)
Jason McVicar (Fellow TWH)
Jane Wang (PGY3)

This is a significant achievement as the course requires extensive commitment by the participants outside of their clinical duties.
Departmental Merit Awards: 2011-2013 Cycle

The following individuals have received competitive peer-reviewed merit awards through the UT Department of Anesthesia for the period covered in this report.

Research Merit Awards:

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

*award period 2009-14
**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>Megan Hayter</td>
<td>St. Michael's Hospital</td>
<td>Simulation Based Inter-Professional Health Care Education: The Effect of Mental Practice</td>
<td>$40,000</td>
</tr>
<tr>
<td>Katherine Taylor</td>
<td>The Hospital for Sick Children</td>
<td>Clarity in Critical Moments- Audio Recorded Resuscitation</td>
<td>$40,000</td>
</tr>
<tr>
<td>Greg Silverman</td>
<td>Mount Sinai Hospital</td>
<td>Anesthesia and Global Health: A Curriculum for Anesthesia in Austere Environments</td>
<td>$20,000</td>
</tr>
<tr>
<td>Zeev Friedman</td>
<td>Mount Sinai Hospital</td>
<td>Challenging Authority in a Crisis Situation: A multi-centre simulation study assessing residents' ability</td>
<td>$20,000</td>
</tr>
<tr>
<td>Eric You-Ten</td>
<td>Mount Sinai Hospital</td>
<td>Development and Integration of An Airway Education Module in the Anesthesia Residency Program</td>
<td>$20,000</td>
</tr>
<tr>
<td>Gail Wong</td>
<td>The Hospital for Sick Children</td>
<td>Development of a national Fellowship Curriculum in Paediatric Anesthesia</td>
<td>$20,000</td>
</tr>
<tr>
<td>Ludwik Fedorko</td>
<td>UHN-Toronto General Hospital</td>
<td>Automated process for controlled substance reconciliation and early detection of narcotic diversion</td>
<td>$20,000</td>
</tr>
<tr>
<td>Sheila Riazi</td>
<td>UHN-Toronto Western Hospital</td>
<td>Advancing the knowledge and understanding of Malignant Hyperthermia (MH)</td>
<td>$20,000</td>
</tr>
<tr>
<td>Ki Jinn Chin</td>
<td>UHN-Toronto Western Hospital</td>
<td>Can novices effectively use ultrasound to facilitate the performance of spinal anesthesia?</td>
<td>$20,000</td>
</tr>
</tbody>
</table>

**New Investigators Merit Awards: 2012-2013**

During the spring of 2012, 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 appointed after February 28, 2011). The recipients of these awards include:

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Hospital</th>
<th>Project Title</th>
<th>Award Value/Annum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stephen Choi</td>
<td>Sunnybrook Health Sciences Centre</td>
<td>Optimizing Pain and Rehabilitation after Knee Arthroplasty (OPRA) – a multicenter randomized trial</td>
<td>$20,000</td>
</tr>
<tr>
<td>John Laffey</td>
<td>St. Michael's Hospital</td>
<td>Optimising the therapeutic potential of human Mesenchymal Stem Cells for Ventilator Induced Lung Injury</td>
<td>$40,000</td>
</tr>
<tr>
<td>Clyde Matava</td>
<td>The Hospital for Sick Children</td>
<td>Developing and Validating Anesthesia Clerkship Blended e-Learning Modules</td>
<td>$20,000</td>
</tr>
<tr>
<td>Jason Maynes</td>
<td>The Hospital for Sick Children</td>
<td>Adverse Mitochondrial Effects of Anaesthetic Agents</td>
<td>$40,000</td>
</tr>
</tbody>
</table>

**Anesthesia Clinician-Scientist Transition Awards: 2012-2013**

In December 2012 we ran our inaugural “UT Anesthesia Clinician-Scientist Transition Award”, this is a major new award designed to attract outstanding early career Clinician-Scientists to the University of Toronto. The purpose of the award is to develop a cadre of Academic Clinician Scientists in Anesthesia and to facilitate rapid progression of outstanding fellows and residents on an academic career track.

The recipients of these awards were:

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Hospital</th>
<th>Project Title</th>
<th>Award Value/Annum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gerard Curley</td>
<td>St. Michael’s Hospital</td>
<td>Mesenchymal Stem/Stromal Cell fate and function in ARDS and Sepsis</td>
<td>$50,000</td>
</tr>
<tr>
<td>Sinziana Avramescu*</td>
<td>Sunnybrook Health Sciences Centre</td>
<td>Preventing post-anesthetic memory deficits</td>
<td>$50,000</td>
</tr>
</tbody>
</table>

*will commence following faculty appointment in 2014
Additional Awards and Honours

Finally, we are pleased to report the following honours and awards, received by our faculty members in 2012-2013:

**Simon Abrahamson**
- Innovation Award, University of Toronto. (Research Award) A study to compare simulation versus seminar based US training in Critical Care (Simfocus Study), 2012

**Stephen Choi**
- University of Toronto, Department of Anesthesia 2012 Interim Merit Award Competition for New Faculty, July 2012
- Outstanding Junior Faculty award, Department of Anesthesia, Sunnybrook Health Sciences Centre, December 2012

**Mark Crawford**
- The Curtis Joseph and Harold Groves Chair in Anesthesia and Pain Medicine

**Gerard Curley**
- Mentored Research Award, International Anesthesia Research Society (Research Award), 2013
- Best Paper Award, Royal Academy of Medicine in Ireland (Distinction), 2012
- Delaney Medal Research Competition Winner, College of Anaesthetists of Ireland (Research Award), 2012
- Costello/O’Beirne Medal, Western Anaesthesia Symposium (Distinction)
- Clinician Scientist Transition Award, University of Toronto (Distinction), 2013

**Tobias Everett**
- Robert Creighton Award for Excellence in Clinical Teaching, Dept of Anesthesia, Faculty of Medicine, The Hospital for Sick Children, Toronto, Ontario, Canada (Postgraduate MD, Core Program). Awarded by consensus of anesthesia residents

**John Hanlon**
- Humanitarian Service Award, Staff Physician, St Michael’s Hospital Foundation (Distinction), 2013

**Gregory Hare**
- Co-Director, Centre of Excellence for Patient Blood Management and Hemostasis, St. Michael’s Hospital, (Distinction), 2012-2013

**Helen Holtby**
- Award for Excellence in Clinical Teaching, Dept of Anesthesia, Faculty of Medicine, The Hospital for Sick Children (Postgraduate MD)

**Patricia Houston**
- Award of Merit for IPE, Centre for Interprofessional Education, University of Toronto (Distinction), 2012-13
- The FitzGerald Academy Friends of the Academy Award, The FitzGerald Academy, Faculty of Medicine, University of Toronto (Distinction), 2013

**Mark Levine**
- Postgraduate Teaching Award, Dept of Anesthesia, Faculty of Medicine, Hospital for Sick Children, Toronto, Ontario, Canada (Postgraduate MD, Residents and Clinical Fellow, Specialty: Anesthesia)

**Clyde Matava**
- Best Poster Presentation, Department of Anesthesia, University of Toronto, Toronto, Ontario, Canada, November 2012
- New Faculty Teaching Excellence Award, Dept of Anesthesia, Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada

**David McKnight**
- Dr. William Marsden Award in Medical Ethics, Canadian Medical Association (Distinction), 2013

**Colin McCartney**
- Winner of British Medical Association Medical Book Award in Anaesthesia and Critical Care Category for Principles and Practice of Regional Anaesthesia, 4th Edition, Oxford University Press

**Beverly Morningstar**
- Health Records and Communications (HRC) Committee

**Elaine Ng**
- Dr. Robert Creighton Teaching Award, Dept of Anesthesia, Faculty of Medicine, University of Toronto (Postgraduate MD)

**Beverley Orser**
- Chair, External Advisory Board, Frontiers in Anesthesia Award for the International Anesthesia Research Society
- James E. Eckenhoff Lecturer, 16th Annual, Perelman School of Medicine, University of Pennsylvania, PA, USA
- 25th C.R. Stephen Lecturer, Washington University in St. Louis, School of Medicine, St. Louis MO, USA
- 2013 Plenary Address, Association of University Anesthesiologists (AUA), Miami, FL, USA
Lawrence Roy
- Chair, Quality Management Council, Toronto, Ontario, Canada

Elod Szabo
- Excellence in Fellowship Teaching, Dept of Anesthesia, Faculty of Medicine, The Hospital for Sick Children (Postgraduate MD, Clinical Fellow, Specialty: Pediatric Anesthesia)

Jordan Tarshis
- Chair, Canadian Simulation Interest Group

Jeff Wasserman
- W. T. Aikins Award for Excellence in Undergraduate Teaching - Individual Teaching Performance (Large Group). These awards are the Faculty’s most prestigious awards for sustained commitment to and excellence in undergraduate teaching. Award winners are selected from nominees in a Faculty-wide process that requires support from both faculty and students.

Faculty Promotions and Recognition

Academic Promotions: July 2012 - June 2013

We are very pleased to announce the following academic promotions, effective July 1, 2012:

To the rank of Associate Professor:
- Dr. Richard Bowry – St Michael’s Hospital (currently, North York General)
- Dr. Cengiz Karśli – Hospital for Sick Children
- Dr. Ki Jinn Chin – UHN-Toronto Western Hospital
- Dr. Marcin Wasowicz – UHN-Toronto General Hospital
- Dr. Massimiliano Meineri – UHN-Toronto General Hospital

We are also pleased to announce the following Junior Academic Promotions, effective as noted:

To the rank of Assistant Professor:
- Dr. Stephen Choi – Sunnybrook Health Sciences Centre (February 1, 2013)
- Dr. Mabel Choi – Sunnybrook Health Sciences Centre (April 1, 2013)
- Dr. Hance Clarke – UHN-Toronto General Hospital (June 1, 2013)
- Dr. Kathleen Dattilo – UHN-Toronto General Hospital (June 1, 2013)
Two sentinel events stand out from my childhood; the Apollo 11 lunar landing and JFK’s assassination. Each in their own way impact my view of clinical anesthesia.

The Apollo 11 mission was remarkable on numerous levels with lessons that still apply to anesthesia. Checklists have thankfully become engrained into our practice whether for checking our anesthesia delivery units/machines (ADUs) or patients prior to start of anesthesia. These are often compared to the cockpit checklists which have been in place in aviation for over 50 years. I find it noteworthy that while the computing power on Apollo 11 was rudimentary at best (RAM 2k, ROM 32k) and is exceeded now by most dishwashers, simplicity has advantages.

When a malfunction switch resulted in the Apollo 14 computer receiving recurring abort signals, NASA engineers devised a patch upgrade that the astronauts keyed in manually which fixed the problem in about 90 mins. I have spent this long just waiting on the help line or trying to resolve an issue intra operatively with our anesthesia delivery units which continue to become increasingly sophisticated to assist with complex care delivery.

However, simplicity and checklists do not exclude errors. Most of us have experienced the frustration of seeing error messages while unsuccessfully programming “simple” IV infusion pumps, whether it is because of lack of familiarity on our part or the poor interactive display functionality of the pump. Five minutes into the descent burn the Apollo 11 lunar module Eagle’s navigation computer displayed 1202 and 1201 program alarms indicating information overload. Certainly this was a suboptimal time to not know where you are or where you are going. The cause was later identified to an error in the checklist sequence. The computer tried to perform all the functions of landing while receiving additional spurious information. Fortunately it was programmed to reboot in such a situation and then displayed only the mandatory information required for landing, which obviously occurred albeit 4 miles off target. When adverse events occur in the OR, I find it challenging to maintain a focus to the task at hand and avoid the extremes of overload with the distraction of cacophony of sounds or equally the isolation of tunnel vision.

Our ongoing training remains the basis for our personal crisis management reboot program.

Every Irish person knew Michael Collins (as he has a famous namesake in Irish history) was the remaining 3rd astronaut in the command module Columbia circling the moon while Armstrong and Aldrin performed the first moon walk. It was not until many years later that I read that his greatest fear was that the Eagle’s engine would not fire and that he would return to earth alone. Neil Armstrong later reported that he felt the odds of the engine’s firing and successful docking with Columbia was 50:50. We all have clinical moments where we feel very alone but ours pale in comparison to Michael Collins circling the moon alone 250,000 miles from the earth.

This year marks the 50th anniversary of JFK’s assassination and the conspiracy theories continue unabated. My interest lies in why he deliberately put himself in harm’s way traveling in an open car at a time and in a place that he knew he was at risk of assassination. I assume it was to maintain the artificial projection of youthful invulnerability. Fortunately ego has no place in anesthesia. Our role is to keep our patients safe when they put their lives in our hands. Which is why I would like my anesthesiologist to be able to make the best decision and also to be more risk adverse than my accountant.
**Clinical Statistics: Fully Affiliated Hospitals**

For the period: July 1, 2012 to June 30, 2013

<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><strong>General Anesthetics:</strong></td>
<td>7707</td>
<td>6259</td>
<td>9898</td>
<td>3153</td>
<td>12075</td>
<td>17517</td>
<td>11579</td>
<td>68188</td>
</tr>
<tr>
<td><strong>Regional Anesthetics:</strong></td>
<td>862</td>
<td>3217</td>
<td>14219</td>
<td>1</td>
<td>2310</td>
<td>2061^b</td>
<td>48</td>
<td>22718</td>
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<tr>
<td><strong>Deliveries:</strong></td>
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<td>n/a</td>
<td>7229</td>
<td>n/a^a</td>
<td>4037</td>
<td>2150</td>
<td>n/a</td>
<td>13416</td>
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<tr>
<td><strong>Epidurals/spinals:</strong></td>
<td>...^a</td>
<td>...^a</td>
<td>...^a</td>
<td>1</td>
<td>1374</td>
<td>1167^c</td>
<td>223</td>
<td>2765</td>
</tr>
<tr>
<td><strong>Caesarian sections:</strong></td>
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<td>n/a</td>
<td>2535</td>
<td>n/a^C</td>
<td>1437</td>
<td>806</td>
<td>n/a</td>
<td>4778</td>
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<tr>
<td><strong>Caesarian section rate:</strong></td>
<td>n/a</td>
<td>n/a</td>
<td>35%</td>
<td>n/a^A</td>
<td>36%</td>
<td>27.3%</td>
<td>n/a</td>
<td>32.8%</td>
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<td><strong>Pain clinic cases:</strong></td>
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<td>611</td>
<td>n/a</td>
<td>1154</td>
<td>1600</td>
<td>3856</td>
<td>756</td>
<td>7977</td>
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<tr>
<td><strong>Acute pain service:</strong></td>
<td>4583</td>
<td>2416</td>
<td>2450</td>
<td>n/a</td>
<td>4795</td>
<td>4291</td>
<td>909</td>
<td>19444</td>
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<tr>
<td><strong>ICU beds:</strong></td>
<td>53</td>
<td>20</td>
<td>16</td>
<td>0</td>
<td>53</td>
<td>69</td>
<td>38</td>
<td>249</td>
</tr>
</tbody>
</table>

Note:

A. TGH, TWH and MSH Regional Anesthetics numbers include Epidurals/spinals
B. Women's College obstetrical cases (deliveries) are performed at Sunnybrook Health Sciences Centre
C. SMH Epidural/Spinal – number refers to epidural/spinals performed in regional anaesthesia room and excludes obstetric epidural/spinals and those performed in the OR
D. SMH Regional Anesthesia number does not include Epidural/Spinal (reported separately)

*Our fellowship programs continue to be successful and to attract increasing numbers of anesthesiologists from Canada and around the world*
Anesthesia Education At The University Of Toronto

Report from Dr. David McKnight, Vice Chair, Education

Once again, I am proud to introduce the Education section of the annual report. As I point out every year, we are a very large university department with over 360 faculty members at fourteen hospital sites. We are involved in teaching medical students, anesthesia residents and fellows, and a large number of graduate students in MSc and PhD programs. We have active continuing education for physicians in practice and a growing faculty development program. Our members are active in research and innovation in education. All of this is inspired and rewarded by the intelligence and enthusiasm of our learners at all levels.

The undergraduate anesthesia education program, led by Dr. Isabel Devito, continues to be a leader in curricular innovation. The move to e-modules for the anesthesia seminars will introduce easier access and flexibility for our dispersed students as we take greater advantage of community sites. We have also built a greater engagement in the pre-clerkship curriculum through leadership and collaboration in the integrated ultrasound teaching in the Structure and Function course in first year.

Dr. Mark Levine’s report notes the praise our residency program received from the Royal College surveyors during our accreditation in April 2013. He is also modest — the report identifies Dr. Levine himself as a strength of the program, an observation strongly endorsed by the residents (and me). We are also very proud of the academic achievements of our residents as seen in the number of publications and graduate degrees and in the success of all of the final year residents at the certification examinations.

Our fellowship programs continue to be successful and to attract increasing numbers of anesthesiologists from Canada and around the world. While fellowships are based in the clinical institutions, the central program organized by Dr. Doreen Yee has enriched the learning environment for these senior learners.

The continuing education offerings of the Department, led by the CME committee chaired by Dr. Peter Slinger, have had another very ambitious year with ten excellent, well attended programs.

Faculty Development Day had a focus on physician wellness as well as teaching and mentoring skills. Dr. Martin van der Vyver’s committee also organized two successful workshops for faculty members.

The University of Toronto Department of Anesthesia continues to be a leader in anesthesia education. This is due to the excellence and hard work of the many people you will read about in this report and many, many more. I extend my congratulations to them on their achievements and my acknowledgement and gratitude for their hard work.
The undergraduate anesthesia education program, continues to be a leader in curricular innovation.
During the 2012-13 academic year the undergraduate program continued its focus towards e-learning, innovation and the integration of the Mississauga Academy of Medicine into its teaching programs.

During this year there was a tremendous growth in the number of sites involved in teaching our core third year medical students. Following the Future of Medical Education recommendations stressing the importance of the learning context, we expanded our core clerkship to the community. Our sites now include five community sites (North York, Toronto East General, St. Joseph’s Health Centre, Scarborough General and Scarborough Birchmount), two Mississauga Academy of Medicine sites (Credit Valley and Mississauga Hospital) and our six downtown academic hospitals, for a total of thirteen sites. This has created a challenge in delivering the core curriculum to our students in the community. To ensure that these students received the same educational experience we provided videoconferencing, however we often encountered technical issues. To remedy this, we began the process of converting our seminars to e-modules, following the Future of Medical Education recommendation to increase the use of technology.

Under the leadership of Dr. Clyde Matava, with the assistance of Gary Cronin, we converted our seminars to interactive e-modules. However we recognized that the e-module format was not sufficient to ideally deliver our curriculum content. As students still required face time with our faculty, we designed a “flipped classroom,” one where the learning would occur outside the classroom (e-modules) with the assimilation of knowledge provided by an exit simulation experience and case based learning (CBL). Dr. Anita Sarmah and her simulation team at Sunnybrook developed a half day exit simulation experience, providing pre-operative, intra-operative and post-operative experiences. Four cases (CBL) were developed to review the objectives of the e-modules following the simulation experience. The e-modules, exit simulation, and case based learning are projected to commence the 2013-14 academic year.

A new component to our Simulation Day was introduced this academic year. A new station introducing point of care ultrasound (PoCUS) training to image the inferior vena cava (IVC) to assess fluid responsiveness was developed by Dr. Anita Sarmah and Dr. Catherine Nix. This station is highly evaluated by our students, and was accepted for presentation at the Association of Medical Education in Europe (AMEE).

The Department of Anesthesia through the leadership of Dr. Catherine Nix, initiated a pilot project in collaboration with Dr. Michael Wiley (Department of Anatomy) to teach first year medical students anatomy through the use of ultrasound during their Structure and Function course. The pilot project was extremely successful. As a result of this work and the success of the Anesthesia Simulation Day IVC ultrasound station, it was decided to pursue the idea of integrating ultrasound teaching into the undergraduate curriculum. This led to the formation of a multidisciplinary Undergraduate Ultrasound Committee (UGUS) with a mandate to develop an integrated longitudinal ultrasound curriculum encompassing all four years of medical school.

Both Credit Valley Hospital and Mississauga Hospital have doubled their capacity for clerkship students, in anticipation of the first clerkship at the Mississauga Academy of Medicine in 2013-14. Faculty Development sessions were held throughout the year. Our electives, under the leadership of Dr. Clyde Matava, continue to be popular with local, national and international elective students. As well, we continue to offer many selectives for the Transition to Residence program at all our downtown hospitals as well as at North York Hospital.

Our third annual curriculum retreat was held in June 2013 with a focus on preparing for the new curriculum changes in 2013-14. Dr. Martin Schreiber was invited to speak on integration in the medical school curriculum and anesthesia involvement throughout the curriculum. At our retreat, we recognized a need for a committee member to coordinate our new exam format involving multiple choice questions (MCQ), key feature questions, and short answer questions. Dr. Carol Loffelmann will serve as our MCQ lead and will continue to educate our faculty on proper format of MCQs reflecting the Medical Council of Canada (MCC) exam format.

Our faculty continue to be involved at all levels. Many faculty are involved in selection of the new medical school class through file reviews and the interview process. We continue to have a strong presence in the Pre-Clerkship with involvement in ASCM I and II, DOCH II, Brain and Behavior and MMMD (Mechanisms, Manifestations and Management of Disease). We continue to
head the Trauma week in MMMD under the leadership of Dr. Jeff Wassermann. For his exceptional teaching in the large group setting, Dr. Wassermann received an Aikens award in the category of large group teaching. He is the first Anesthesiologist at the University of Toronto to have been awarded this very prestigious award.

Our Anesthesia Interest Group (AIG), under the leadership of Dr. Diana Tamir, continues to be extremely popular. As with other years, an airway workshop was held as well as our annual Student Information Night. Many of our residents were involved in the planning and facilitation of these events. As with past years, interest surpassed available spots for our workshops.

There will be many challenges in the upcoming 2013-14 academic year. The first formal anesthesia clerkship will occur at the Mississauga Academy of Medicine site. While many clerkship rotations are struggling to provide the clerkship experience at Mississauga, we have been anticipating this and have gradually doubled our numbers. We will be able to fill our quota due to forward planning and the dedication of both Credit Valley and Mississauga Hospital faculty.

Our final challenge will be the preparation and implementation of our flipped classroom for 2013-14.

Despite our many challenges, our strength continues to be our dedicated faculty. Without the positive experience that students receive on a daily basis, the best planned student experience could not be a success. We thank our faculty for continuing to be positive role models for our students.
The 2012-13 academic year was a particularly successful one for a variety of reasons. Two of the most notable were a successful Royal College Accreditation visit and the pass rate at the Royal College Examinations in June, 2013. In April 2013, most postgraduate programs at the University of Toronto underwent reviews as part of the six year Accreditation cycle of the Royal College of Physicians and Surgeons of Canada. Our program was reviewed over a two day period and we were able to highlight many of the merits of our program in the documentation and in the meetings with residents and many members of the teaching community (who represented a variety of stakeholders and subspecialty areas). Some of the strengths identified by the reviewer included a very involved and supportive Residency Program Committee and the large patient volume and excellent committed faculty. The Program received full approval with a regular review in six years.

In the spring of 2013, the 18 final year residents were all successful at the Royal College Examinations and many have remained on as fellows or faculty members at our teaching sites. Our specialty has maintained its popularity amongst medical students and we have been able to attract many outstanding applicants to our program. We welcomed three residents in transfer from other programs in addition to the 18 new PGY1 residents who joined the program in July 2012.

A Postgraduate Education retreat was held in November, 2012. Three themes were addressed: 1) Review of the in-training evaluation forms, 2) revision of rotation schedules for the PGY1 and Medicine/ICU years and 3) a review of the content and timing of the Medicine/ICU rotations. A number of changes have been instituted as a result of this retreat.

This academic year was very fruitful in terms of research and academic productivity. Nine of our residents presented papers at the Annual Shields Research Day and two were award recipients: Dr. Mark McVey received the Hynek Rothbart award for the Best Resident Research Presentation and Dr. Chris Perkes was presented with the Thomas Donald Hammell award for the senior resident who is considered by his/her peers to have made the greatest contribution to the program. In addition Drs Fahad Alam and Zoe Unger successfully completed Masters in Education programs. Dr. Alam also received a 2012 PSI Resident Research Award for his paper entitled: “Using mental practice and modeling to enhance clinical learning experiences in medical education harnessing novel podcasting technology.” Dr. David Orlov received the Daniel Massik MHAUS Anesthesiology Resident’s Award which enabled him to present his research at the American Society of Anesthesiologists annual meeting. Our residents have also assumed leadership roles on our local and national specialty organizations and PARO.
## Residents 2012-2013

### PGY5

<table>
<thead>
<tr>
<th>PGY5</th>
<th>Members</th>
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<tbody>
<tr>
<td>Avramescu, Sinziana</td>
<td>Gamez, Ryan</td>
<td>Liu, Peter</td>
<td>Puopolo, Laura</td>
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<tr>
<td>Desai, Minal</td>
<td>Ibrahim, Hesham</td>
<td>Mashari, Azad</td>
<td>Singer, Oskar</td>
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<tr>
<td>Evangelista, Raymond</td>
<td>Ladha, Alim</td>
<td>Mocon, Aaron</td>
<td>Sivasanathan, Praveena</td>
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<tr>
<td>Fader, Michael</td>
<td>Lam, Mandy</td>
<td>Perkes, Christopher</td>
<td>Skelton, Teresa</td>
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<tr>
<td>Farsi, Sara</td>
<td>Lee, Sang</td>
<td>Pillo, Lisa</td>
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### PGY4

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<td>Alam, Fahad (CIP)</td>
<td>Kerelska, Tina</td>
<td>McVey, Mark (CIP)</td>
<td>Waldman, Kyle</td>
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<tr>
<td>Chau, Edmond</td>
<td>Khemanani, Eka</td>
<td>Mottiar, Miriam</td>
<td>Yeung, Alex</td>
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<td>Flamer, David</td>
<td>Koval, Joseph</td>
<td>Orlov, David</td>
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<td>Henry, Paul</td>
<td>Krishna, Arjun</td>
<td>Tylee, Michael</td>
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<tr>
<td>Hurlburt, Lindsay</td>
<td>Le, Nam</td>
<td>Unger, Zoe</td>
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### PGY3

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<td>Ho, Clara</td>
<td>Mikhail, Rafeek</td>
<td>Cindy Ruiqing</td>
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<td>Al-Mousawy, Zolfakar</td>
<td>Ho, Melissa Wei-Yee</td>
<td>Mu, Alex</td>
<td>Wang, Jane Jing</td>
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<td>Au, Samuel Fook Hang</td>
<td>Jhajj, Prabhjote Singh</td>
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<td>Wong, Simon Wai Lun</td>
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<td>Song, Yuning</td>
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### PGY2

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<td>Baig, Ehtesham</td>
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<td>Moenalsadat, Mahsa</td>
<td>Talab, Hesham</td>
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<td>Benson, Garrett</td>
<td>Gleicher, Yehoshua</td>
<td>Noyahr, Lori-Anne</td>
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### PGY1

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<td>Levin, David</td>
<td>Suen, Alexander</td>
<td>Yu, Savio (CIP)</td>
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<td>Li Melinda</td>
<td>Valeeva, Liliya</td>
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<td>Lam, Karen</td>
<td>Nkemngu, Njinkeng</td>
<td>Van Haafien, Timothy</td>
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</table>

(CIP) – Clinical Investigator Program
The fellowship program continues to receive numerous applications from both Canadian and international applicants. Subspecialty training continues to be the most popular, with Regional and Cardiac Anesthesia Fellowships filling up sometimes more than 18 months in advance. Pediatric and Obstetrical Anesthesia programs are also fully subscribed annually. In the last year, there has been a noticeable increase in the number of Canadian IMG fellowship applicants; these are Canadians who trained in medical schools (and residency) abroad, and are now returning to Canada to acquire their Canadian certification. As a result, more fellows are looking to sit the Royal College exams.

Most of the fellowship positions come with 20% academic time, although some sites have difficulties in ensuring the fellows receive this time on a regular basis. Despite this challenge, fellows’ research activities continue to be productive, as evidenced by the fact that almost a third of the Shields Day presentations were by fellows, and more than half of the posters showcased were a result of fellows’ work. The following people won awards at Shields Day: Dr. Husni Alakkad won the Dr. R. J. Byrick award for the best paper presented, and Dr. Sheldon Lyn won a Laws Travel award. Two fellows, Drs. Waleed Soliman and Nhatien Nguyen-Lu also won awards for Best Papers in Ambulatory Anesthesia and Obstetrical Anesthesia respectively at the annual CAS meeting (The one that did not actually happen because of the flood in Calgary). A number of articles in peer-reviewed journals with fellows as the lead author are also produced each year.

The Professor’s Rounds continue and eight lectures were delivered this academic year by our own faculty on their areas of expertise. This year, we started taping the lectures for webcasts, which were archived. Fellows could then access the talk later on the Internet if they were unable to attend. Under the initiative of Dr. Alexandra Beckingsale, an Education fellow from St. Michael’s Hospital, the Education and Simulation fellows from around the city organized their own journal club (and invited their staff!). As well, Regional Anesthesia fellows from Sunnybrook and Toronto Western Hospitals also met for similar purposes at the Holland Centre. The success rate amongst Cardiac Anesthesia fellows who took the TEE exam was once again 100%. Much effort and hard work has been put in by both staff and fellows to achieve this.

The fourth annual holiday dinner for all the fellows that takes place after the Mendelson Lecture was a huge success this year, with over 50 people attending. We hope to continue this tradition where all fellows can socialize and make connections that extend well beyond their fellowship time.

It is satisfying to see that a number of our graduates from the Fellowship Program go on to consultant positions, some at our own university, and others at other academic centres in Canada and around the world.

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
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<tbody>
<tr>
<td>September 25</td>
<td>Review of Transfusion Practices in the Last Decade: How and Why Have We Changed?</td>
<td>Dr. Keyvan Karkouti</td>
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<tr>
<td>October 29</td>
<td>Extubation of the Difficult Airway</td>
<td>Dr. Richard Cooper</td>
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<tr>
<td>November 23</td>
<td>Patient Safety and the Regulator - Experience from the CPSO</td>
<td>Dr. Robert Byrick</td>
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<tr>
<td>January 21</td>
<td>“Saturday Night Is Not Alright” – A Look into After-Hours Patient Care</td>
<td>Dr. Larry Roy</td>
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<tr>
<td>March 5</td>
<td>Who Should Have a Post-Operative Troponin?</td>
<td>Dr. Scott Beattie</td>
</tr>
<tr>
<td>April 3</td>
<td>How do Anesthetics Affect Memory? Does it Matter?</td>
<td>Dr. Beverley Orser</td>
</tr>
<tr>
<td>April 24</td>
<td>Looking Beyond the OR: Is there a role for anesthesiologists in a 21st century healthcare system?</td>
<td>Dr. Alex Jadad</td>
</tr>
<tr>
<td>June 3</td>
<td>Why Does Anesthesia Matter for Total Knee Replacement?</td>
<td>Dr. Colin McCartney</td>
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# Anesthesia Fellows 2012-2013

## The Hospital for Sick Children

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<tbody>
<tr>
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<td>Laskine-Holland,</td>
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<td>Marie Laure</td>
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<td>Ali, Samia</td>
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<td>McCarthy, Kevin</td>
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<td>Balakrishnan, Sreedra</td>
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<td>Moulton, Dagmar</td>
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<td>Bunbury, Dean</td>
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<td>Obara, Soichiro</td>
<td>Japan.</td>
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<td>Raj, Diana</td>
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<td>Cyr, Jason Denis</td>
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<td>Schwartz, Amanda</td>
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<td>Finnerty, Olivia</td>
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<td>Howie, Alasdair</td>
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<td>Stocki, Daniel</td>
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<td>Lachance, Monia</td>
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## Mount Sinai Hospital

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<tr>
<td>Ali, Ashraf Moussa</td>
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<tr>
<td>Khan, Mubeen</td>
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<td>Clivatt, Jefferson</td>
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<td>Nguyen-Lu, Nhathien</td>
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## St. Michael's Hospital

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<td>Abdallah, Faraj</td>
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<td>Leung, Rico</td>
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<td>Ahmed, Sara</td>
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<td>Lim, Herman</td>
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<td>Mathews, Geena</td>
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## Sunnybrook Health Sciences Centre

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<tr>
<td>Constantinescu, Corina</td>
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<td>Peng, Yvonne</td>
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<td>Daher, Mauricio</td>
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<td>Fried, Ben</td>
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<td>Ju, Hui</td>
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<td>Tharakan, Liza</td>
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<td>Pandya, Seema</td>
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## UHN - Toronto General Hospital

<table>
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<td>Ashes, Catherine</td>
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<td>Abdullah, Hairil</td>
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<td>Mehta, Arpan</td>
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Continuing Medical Education

Report from Dr. Peter Slinger, Director, CME/CPD Programs

We aim to provide pertinent and up to date CME/CPD activities to the UT Department and the Anesthesia Community

The Continuing Medical Education Committee for the Department of Anesthesia is comprised of representatives from each of the teaching hospitals as well as directors of CME courses and community hospital representatives. The committee meets 4 times each year to discuss, plan and organize a number of continuing education initiatives for the department. The committees aim is to promote CME/CPD both within the departments and in the anesthesia community. We also endeavour to ensure that most CE activities qualify for University of Toronto sponsorship and are accredited learning activities.

Course Development

Under the direction of Dr. Elizabeth Au-Yeung the committee supervises the Anesthesia Practice Meeting. This two-day course affords a combination of lectures, workshops and problem-based learning discussions for both Fellowship and GP Anesthetists. In 2013 this course will undergo a major revision and rebranding as Toronto Interactive Anesthesia and the revised program will include an increased emphasis on interaction between the audience and faculty.

Course Sponsorship

The CME Committee aids in the development and accreditation of ongoing CME courses produced by the U of T Department of Anesthesia.
### Anesthesia CME courses for July 2012-June 2013 include:

<table>
<thead>
<tr>
<th>Course</th>
<th>Date(s)</th>
<th>Course Organiser</th>
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<tbody>
<tr>
<td>Obstetric Anesthesia</td>
<td>Sept 21-22, 2012</td>
<td>Jose Carvalho</td>
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<tr>
<td>Perioperative Transesophageal Echocardiography Symposium</td>
<td>Nov 3-4, 2012</td>
<td>Annette Vegas, Jo Carroll</td>
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<tr>
<td>Anesthesia Faculty Development Day</td>
<td>Nov 12, 2012</td>
<td>Martin van der Vyver</td>
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<tr>
<td>Critical Care Canada Forum</td>
<td>Oct 28-31, 2012</td>
<td>Brian Kavanagh</td>
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<tr>
<td>Mendelsohn Lecture</td>
<td>Nov 23, 2012</td>
<td>Elizabeth Au-Yeung</td>
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<tr>
<td>Toronto Anesthesia Practice</td>
<td>Nov 24-27, 2012</td>
<td>Elizabeth Au-Yeung</td>
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<tr>
<td>Ultrasound for Pain Medicine Workshop</td>
<td>Nov 30-Dec 2, 2012</td>
<td>Phillip Peng</td>
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<td>Toronto Anesthesia Symposium</td>
<td>Apr 13-14, 2012</td>
<td>Peter Slinger, David Wong, Aliya Salman</td>
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<td>Shields Day</td>
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<td>Zeev Friedman</td>
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### Future Anesthesia CME Courses Include:

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<tr>
<td>Regional Anesthesia Mini Workshops</td>
<td>May 31-June 2, June 14-15, Oct 4-6, Nov 1-2, Nov 29-30 2013</td>
<td>Vincent Chan</td>
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<tr>
<td>Obstetric Anesthesia</td>
<td>Sept 20-21, 2013</td>
<td>Jose Carvalho</td>
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<tr>
<td>Continuous Peripheral Nerve Blocks for Major Orthopedic Surgery</td>
<td>Oct 18, 2013</td>
<td>Martin Van Der Vyver</td>
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<td>Critical Care Canada Forum</td>
<td>Oct 28, 2013</td>
<td>Brian Kavanagh</td>
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<tr>
<td>Malignant Hyperthermia Scientific Congress</td>
<td>Nov 1-2, 2013</td>
<td>Sheila Riazi</td>
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<tr>
<td>Perioperative Trans-esophageal Echocardiography Symposium</td>
<td>Nov 2-3, 2013</td>
<td>Annette Vegas, Jo Carroll</td>
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<tr>
<td>Ultrasound for Pain Medicine Workshops</td>
<td>Nov 4-6, 2013</td>
<td>Philip Peng</td>
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<tr>
<td>Pediatric Anesthesia</td>
<td>Nov 8-10, 2013</td>
<td>Elizabeth McLeod</td>
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<td>Anesthesia Faculty Development Day</td>
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<td>Alison Ho</td>
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<td>Apr 5-6, 2014</td>
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<td>Shields Day</td>
<td>May 9, 2014</td>
<td>Zeev Friedman</td>
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<tr>
<td>Controversies in Perioperative Medicine</td>
<td>May, 2015</td>
<td>Mark Friedlander</td>
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</tbody>
</table>

### Web-Based Learning:

**1) CME Online Anesthesia Rounds**

This program has been enlarged to 17 educational modules. This program has been developed by Sharon Davies (MSH). These modules have been accredited by the University of Toronto CEPD Dept. for Section 3 RCPSC credits. In 2012, 881 modules were completed by 484 participants. These modules can be accessed through the U of T Anesthesia Dept. website [www.anesthesia.utoronto.ca](http://www.anesthesia.utoronto.ca) under: Education/Continuing Medical Education.

**2) Web-Based Bronchoscopy Simulator**

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

Report from Dr. Martin Van Der Vyver, Director, Faculty Development Programs

Our Faculty Development Day provides another forum at which our faculty may network

Our aim is to plan and implement program-related initiatives to facilitate the development of our faculty as clinical teachers and educators and provide support to enable them to fulfill multiple roles and responsibilities expected of physicians in academic medicine.

The members of the Faculty Development committee for the period 2012-2013:

- Martin van der Vyver - Committee Chair
- Megan Hayter - SMH
- Susan Liker - St. Joseph’s Health Care Centre
- Clyde Matava - SickKids
- Claire Middleton - TGH
- David McKnight - Vice Chair, Education, Dept of Anesthesia
- Martha O’Driscoll - Sunnybrook
- Sheila Riazi - TWH
- Eric You Ten - MSH

The annual Faculty Development Day was held on Monday November 12th, 2012 at the Chestnut Centre in downtown Toronto. The goals of Faculty Development Day are to:

1. Improve teaching and other professional skills that faculty require,
2. Provide a platform to present research and innovations in the field of Education or Creative Professional Activities, and
3. Recognize teaching excellence.

Faculty Development Day also provides another forum (in addition to Shields Day) for our faculty to network. We hope that eventually all teaching sites will enable their staff to attend in large numbers.

Faculty Development Day 2012 was arranged by the following planning committee:

- Martin van der Vyver - Chair of planning committee
- Sheila Riazi and Clyde Matava - Sub-chairs, arranging scientific sessions and small-group sessions respectively
- Craig Daniels - Coordinator (Business Manager, Department of Anesthesia)
- Gary Cronin - Web service support
- Jennifer Morris - Admin support

Dr. Derek Puddester gave the keynote presentation on Physician Wellness. This was followed by small group sessions on the following topics:

- Stress and burn out amongst medical teachers/clinicians
- Role Modeling: Monkey see, Monkey do
- Anesthesiologist 2.0 – Apps that impact your practice and clinical teaching
- Late Career Planning
- Judgement and Anesthesia: Slowing down when you should
- Teaching Medical Students

The award for best oral presentation was awarded to Dr. Zeev Friedman from Mount Sinai Hospital for his presentation on Challenging authority during a life threatening crisis: The effect of operating room hierarchy. Dr. Clyde Matava was awarded the prize for the best poster presentation on the topic of eLearning among Canadian anesthesia residents: A survey of podcast use and content needs.

The People’s Choice Awards went to Dr. Zeev Friedman for his oral presentation and Dr. Catherine Nix for her poster presentation.
Other Events Organized by the Faculty Development Committee:

A late afternoon workshop on Senior Promotions was held on February 4th, 2013 and was attended by more than 25 faculty. Invited facilitators were Dr. Avrum Gotlieb, Chair of the Decanal Promotions Committee, and Dr. Mary Bell, Associate Professor, Department of Medicine. The objectives of the workshop were to clarify the administrative process (Dr. Craig Daniels, Business Manager for the Department of Anesthesia), describe expectations of the Faculty of Medicine (Dr. Gotlieb) and to identify the criteria for Creative Professional Activities worthy of senior promotion (Dr. Bell).

Career Development was the focus of the second afternoon workshop held on Monday May 27th, 2013. Two concurrent sessions addressed the needs of junior faculty and those in the later stages of their career respectively. Invited speakers were Drs. Ivan Silver (CAMH Vice President of Education), Colin McCartney (Associate Professor in Anesthesia) and the expert panel on late career planning led by Dr. Karen Leslie, Director of the CFD.

A joint Faculty Development event for part-time faculty affiliated with the Mississauga Academy of Medicine was held in September 2012. The objective of this event, jointly organized with Dr. Jana Bajcar, Faculty Development Officer at the Mississauga Academy of Medicine, was to address the concerns of faculty about teaching clerks and residents in a community practice setting.

A database of education related awards available to faculty from hospitals, the department, university and nationally was created by Dr. Martha O’Driscoll. A similar database with available funding opportunities in all areas of education was also created by Dr. O’Driscoll. These databases are available on the U of T Anesthesia web site and we encourage all faculty to use these resources. (www.anesthesia.utoronto.ca/edu/Faculty_Development/Awards_and_Grants.htm)
Our department has had another very successful year for research. Thanks to the outstanding accomplishments of our faculty and trainees, we continue to be national and international leaders in terms of publications, grants, awards, and recognition. Whether assessed by volume, impact or other metrics, we remain at or near the top of Anesthesia Departments around the world.

Publications from members of our department have appeared in a very wide range of high impact journals, and our faculty have provided a significant number of invited lectures and visiting professorships around the world. The numerous prestigious peer-reviewed grants awarded to our department are listed elsewhere in this report. These lists highlight the dedication of our faculty and trainees to the generation and dissemination of new knowledge related to our specialty.

Several of our faculty have received especially noteworthy recognition for their research this past year.

Dr. Frances Chung was named the Royal College McLaughlin-Gallie Visiting Professor for 2013 – this award is significant since McLaughlin-Gallie Visiting Professors can be selected from any country in the world and may represent any branch of medicine. Dr. Andrew Baker was awarded the Research Recognition Award from the Canadian Anesthesiologists’ Society for his sustained research in and major contributions to anesthesia and perioperative medicine. Dr. Joel Katz was named the Canadian Pain Society Distinguished Service Award Recipient for 2013. This prestigious award recognizes longstanding service in pain research and pain management.

Research by trainees remains an important departmental priority. We were thus very pleased that Drs. Sinziana Avramescu and Gerard Curley won Mentored Research Awards from the International Anesthesia Research Society. These grants are the most important research awards for emerging anesthesiology clinician-scientists; our department received 2 of the 4 awarded in 2013. Drs. Avramescu and Curley also received 2013 U of T Department of Anesthesia Clinician-Scientist Transition Awards. Trainee research is also flourishing with our Clinician Investigator Program, advanced degree programs, graduate student initiatives and active fellowship program. This year we have had several successful PSI foundation and Daniel Massik MHAUS Anesthesiology Resident Awards. The breadth and depth of our trainee research was highlighted at our annual Shields Research Day which was organized by Dr. Zeev Friedman. The Shields day award winners are listed elsewhere in this report.

We are immensely proud of our outstanding faculty and trainees who continue to advance our profession through their research activities, and we look forward to even greater successes in the future.
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Annual Shields Research Day 2013

On May 10th 2013, the Department of Anesthesia got together again to celebrate the front-line innovative research performed by its members. This event needs very little outside effort to make it successful. The quality of the research presented by the department’s trainees and the Annual Shields Lecture make this day an instant hit.

The 34th Shields Day was again extremely successful. We had 288 attendees (including 80 residents, 56 fellows, 105 faculty, 20 Anesthesia Assistants, 27 research students.) The Annual Shields Lecture was presented by Dr. Todd Dorman: “Continuing medical education: the link between physician learning and health care outcomes” while the Vice Chair of Research Selection was presented by Dr. Beverley Orser: “Teaching Old Receptors New Tricks: Extrasynaptic inhibitory Receptors as Therapeutic Targets”. Both presentations were very well received and were followed by enthusiastic question and answer periods.

We had several awards which were given out to the highest scoring projects:

- **A. C. Bryan Award** - Best Presentation by a Grad Student - **Paul Whissell**
- **Hynek Rothbart Award** - Best Paper by a Resident - **Mark McVey**
- **R. J. Byrick Award** - Best Paper by a Fellow - **Husni Alakkad**
- **David Bevan Award** - Best Overall Poster - **Dianshi Wang**

Congratulations to all of these award recipients on winning their respective categories and congratulations also to the other oral and poster presenters for being part of another successful day of research and networking.
This academic year was very fruitful in terms of research and academic productivity.
Published in 2013:

Abdallah FW, Brull R. The definition of block “success” in the contemporary literature: are we speaking the same language? Reg Anesth Pain Med 37:545-553, 2012


Barrett CS, Jaggars JJ, Cook EF, Graham DA, Yarlagadda VV, Teele SA, Almond CS, Bratton SL, Seeger

Publications

Peer-Reviewed Publications


Beattie WE, Donati F, Cheng D, Mazer D, Miller DR. From Concept to publication: celebrating mentorship and knowledge generation through research during postgraduate residency training. Can J Anesth 60:625-629, 2013


Bonin RP, Zurek AA, Bayliss DA, Orser BA. Hyperpolarization-activated current (Ih) is Reduced in Hippocampal Neurons from Gabra5-/- Mice. PLoS One 8:e858679, 2013


Chaparro LE, Clarke H, Valdes PA, Mira M, Duque L, Mitsakakis N. Adding pregabalin to a multimodal analgesic regimen does not reduce pain scores following cosmetic surgery: a randomized trial. J Anesth 26:829-835, 2012


Chin KJ. Ultrasound visualization of the superficial peroneal nerve in the mid-calf. Anesthesiology 118:956-965, 2013


Christensen R, Voepel-Lewis T, Lewis I, Ramachandran SK, Malviya S; American Heart Association’s Get With The Guidelines-Resuscitation (formerly the National Registry of Cardiopulmonary Resuscitation) investigators. Pediatric cardiopulmonary


Curley GF, Ansari B, Hayes M, Devaney J, O’Toole D, O’Brien T, Laffey JG. Effects of intratracheal Mesenchymal Stem Cells therapy during recovery and resolution following Ventilator Induced Lung Injury. *Anesthesiology* 118:924–932, 2013


Everett TC, Ng E. Mobile, wireless, multi-camera audiovisual solution for simulation: a novel application of existing technology. *Int J Med Sim* 4, 2013


Everett TC, Ng E. Mobile, wireless, multi-camera audiovisual solution for simulation: a novel application of existing technology. *Int J Med Sim* 4, 2013


Gardner-Nix J, Barbati J, Grummit J, Pukal S, Raponi Newton R. Exploring the Effectiveness of a Mindfulness-Based Chronic Pain Management Course Delivered Simultaneously to On-Site and Off-Site Patients Using Telemedicine. Mindfulness 1-9, 2012


Hare GMT, Tsui AKY, Crawford JH, Patel RP. Is methemoglobin an inert bystander, biomarker or a mediator of oxidative stress-the example of anaemia? Redox Biol 60:168-175, 2013


Hurlburt L, Lay C, Fehlings MG, Carvalho JC. Postpartum workup of postdural puncture headache leads to diagnosis and surgical treatment of...


Margarido CB, Diacic A, Balki M, Furtado L, Carvalho JC. The epidural electric stimulation test does not predict local anesthetic spread or consumption in labour epidural analgesia. Can J Anesth 60:393-398, 2013

Margarido CB, Diacic A, Balki M, Furtado L, Carvalho JC. The epidural electric stimulation test does not predict local anesthetic spread or consumption in labour epidural analgesia. Can J Anesth 60:393-398, 2013


Orser BA, Hyland S, UD, Sheppard I, Wilson CR. Review Article: Improving Drug Safety For Patients Undergoing Anesthesia


Thilen SR, Bryson CL, Reid RJ, Wijesundera DN, Weaver EM, Treggiari MM. Patterns of preoperative consultation and surgical specialty in an integrated healthcare system. Anesthesiology 118:1028-1037, 2013


Wong DT, Yang JJ, Mak HY, Jagannathan N. Use of intubation introducers through a supraglottic airway to facilitate tracheal intubation.


Non Peer-Reviewed Publications

Balki M. In the lab with Dr. Mrinalini Balki: Development of a new airway algorithm for obstetrics. On-line Anesthesiology Supplement pg2a.org, October 2012

Cooper RM. The Society for Airway Management: Elevating the Standard of Airway Safety.

American Society of Anesthesiologists. Newsletter 77:26-27, April 2013

Curley GF, Laffey JG. Cell therapy demonstrates promise for ARDS — but which cell is best? Stem Cell Res Ther 4:29, 2013


Singh-Radcliff (ed.)
Lippincott Williams & Wilkins, Philadelphia, PA, 2013


Seet E, Chung F. Chapter 9: Anesthesia and Intraoperative Care of Elderly Surgery Patients. Springer-Verlag, Berlin Heidelberg, Germany, 2013


Invited Lecturers

Abrahamson, S
Canadian Critical Care Forum Residents Day, Toronto, Ontario, November 2012
“Ultrasound in Critical Care - you are blind without it”

Angel, P
- Obstetric Anesthesia Meeting Day, Toronto Anesthetic Practice Meeting, Toronto, Ontario, Canada, November 2012
“Labor analgesia: State of the art or state of the evidence?”

Arzola, C
- 10th Annual Obstetric Anesthesia Conference & Workshop, Mount Sinai Hospital, Toronto, Ontario, September 2012
“Can we make clinical use of gastric ultrasound assessment of pregnant women?”
“Ultrasound Workshop in Obstetric” (Spinal Ultrasound)
- Seminars in Health & Disease Course, Human Biology Program, Faculty of Arts and Science, University of Toronto, Toronto, Ontario, October 2012
“Pain Relief during Labor and Delivery”
“Spinal Ultrasound for Neuraxial Procedures”
- Anesthesia Practice Meeting, Department of Anesthesia, University of Toronto, Toronto, Ontario, November 2012
“Ultrasound for Neuraxial Blocks” (Workshop)
- 3rd World Congress on Regional Anaesthesia and Pain Therapy, Sydney, Australia, February 2013

Awad, I
- Toronto Anesthesia Practice Meeting, Toronto, Canada, November 2012
“Challenging pain patients”
- U of T seminar for PGY2, Sunnybrook Hospital, Toronto, November 2012
“Ultrasound guided sciatic and ankle block”

Bahrey, L
- Department of Anesthesia and Pain Management, Grand Rounds, Toronto General Hospital, Toronto, Ontario, October 2012
“The Royal College Exam - An Update”

Baker, A
- Critical Care Canada Forum, Toronto, Ontario, CCCF/CCCS Residents Day, October 2012
“When ICU admission may not be helpful” (Moderator)
- Critical Care Canada Forum, Toronto, Ontario, October 2012
“Caring for the Brain-Injured Patient 1” (Moderator)
“Understanding Mild Traumatic Brain Injury”
- The Osgoode Certificate in Clinical Risk, Negligence and Claims Management in Health Care, Toronto, Ontario, January 2013
“End of Life and Intensive Care”
- Popular Science Lectures, St. Michael’s Hospital, Toronto, Ontario, April 2013
“Traumatic Brain Injury - it’s deeper than you think”
- Annual Canadian Critical Care Review Program, Toronto, Ontario, June 2013
“Neurological Critical Care”

Balki, M
- 10th Annual Obstetric Anesthesia Conference & Workshop, Mount Sinai Hospital, Toronto, Ontario, September 2012
“Spinal Ultrasound Workshop”
“Oxytocin first…right…what comes next? The carboprost versus ergot debate. Session III” (Moderator)
- Anaesthetic Practice, Toronto, Ontario, November 2012
“Ultrasound for peripheral nerve blocks/neuraxial blocks & vascular access” (Workshop)
- Department of Obstetrics and Gynaecology Grand Rounds, Mount Sinai Hospital, Toronto, Ontario, February 2013
“A team based approach to placenta percreta: The MSH experience”

Bhatia, A
- Department of Anesthesia and Pain Management, Toronto Western Hospital, Toronto, Ontario, November 2012
“Ultrasound for Pain Medicine” Workshop
- Pain & Symptom Management Rounds, Princess Margaret Hospital, Toronto, Ontario, November 2012
“Intrathecal analgesia for cancer related pain”
- American Association of Pain Therapy, Sydney, Las Vegas, March 2013
“Ultrasound for cervical spine interventions”
Department of Physical Medicine and Rehabilitation, Grand Rounds, University of Toronto, Toronto, Ontario, March 2013

“Interventional management for patients with low back pain”

Canadian Interventional Pain Conference, Hamilton, Ontario, April 2013

“Interventional techniques in pain management” Workshop

Department of Anesthesia and Pain Management, Toronto Western Hospital, Toronto, Ontario, April 2013

“Ultrasound for Pain Medicine”

American Association of Pain Management in Ultrasound, Washington, DC, April 2013

“Ultrasound for pain procedures- basic knobby and optimization”

Department of Anesthesia and Pain Management, Toronto Western Hospital, Toronto, Ontario, June 2013

“Self outpatient intravenous ketamine infusions for treatment of refractory neuropathic pain”

Campbell, F

The Hospital for Sick Children, Toronto, Ontario, Canada, Lunch time seminar series, September 2012.

“Pain Matters in Hospitalized Children - setting the context”

Series of lectures as part of the Pediatric Pain Education Program Curriculum, SickKids International, Doha, Qatar, November 2012

“Pain Management; a series of presentations”

Pediatric Pain Symposium, SickKids International, Doha, Qatar, November 2012

“Chronic Pain in Children and Youth; Evaluation and Management”

Faculty of Nursing, University of Toronto, Toronto, Ontario, Canada, Postgraduate nursing course (Continuing Education), November 2012

“Pain Management Strategies: Complex challenges for acute pain in the presence of chronic pain”

Perioperative Services Grand Rounds, The Hospital for Sick Children, Toronto, Ontario, Canada, November 2012

“Pain: it’s not what you think…”

Interprofessional Pain Conference, The Hospital for Sick Children, Toronto, Ontario, Canada November 2012

“Conquering Procedural Pain”. Moderated Plenary Sessions and also Breakout session.

University of Toronto Centre for the Study of Pain, Toronto, Ontario, Canada, Lecture on the UTCSP Interfaculty Pain Curriculum, March 2013

“Pain: Mechanisms and Manifestations”

Departmental Rounds, Dept of Anesthesia, The Hospital for Sick Children, Toronto, Canada, April 2013

“Pain; a Key Quality Indicator”

Fellows Rounds, Dept of Anesthesia, The Hospital for Sick Children, Toronto, Canada, April 2013

“Chronic Pain Matters”

Dental Centennial Gala-Education Day, The Hospital for Sick Children, Toronto, Canada, May 2013

“Dental pain matters: improving outcomes in pain management”

Plastic Surgery Rounds, The Hospital for Sick Children, Toronto, Canada, June 2013

“Complex Regional Pain Syndrome (CRPS) Matters”

Carvalho, J

Visiting Professor, Department of Anesthesia, St. Luke’s-Roosevelt Hospital Center, New York, New York, September 2012

“Ultrasound-assisted epidurals and spinals in obstetrics”

“Ultrasound based regional anesthesia workshop – epidurals and spinals”

116th Japanese Society for Obstetric Anesthesia and Perinatology, Omiya Sonic City, Japan, December 2012

“Uterotonic agents: from basic science to clinical practice” (Keynote Speaker)

Department of Anesthesia, Saitama Medical University, Saitama, Japan, December 2012

“Management of postpartum hemorrhage”

Department of Anesthesia, National Center for Child Health and Development,
“Recent Advance and Future Trend in Ultrasound Guided Regional Anesthesia”

Visiting Professor, Department of Anesthesia, 2nd Affiliated Hospital of Wenzhou Medicine College, Wenzhou, China, September 2012

“Current Concept and Future Trends of Ultrasound Guided Regional Anesthesia”

Department of Anaesthesia, King Edward Memorial Hospital, Mumbai, India, October 2012

“US Physic and Basic for Regional Anesthesia - a New Standard for Better Pain Management” Ultrasound Workshop

“Safety Precautions and Training Guidelines for Ultrasound Guided Regional Anesthesia and Pain Interventions”.


“Update on Ultrasound-Guided Regional Anesthesia”

Visiting Professor, Department of Anesthesia, University of Pittsburgh, Pittsburgh, Pennsylvania, January 2013

“Regional Anesthesia and Ultrasound”

“Perioperative Use of Ultrasound for Anesthesia Practice”

California Society of Anesthesiologists, Maui, Hawaii, January 2013

“Recent Advances in Ultrasound Guided Regional Anesthesia”

“Perioperative Use of Ultrasound in Anesthesia”

“Hot Topics in Regional Anesthesia/Analgesia”

41st Annual Anesthesiology Review Course, University of Alabama, Birmingham, Alabama, February 2013

“Helping new mothers get ready to rock: how can anesthesiologists contribute to fast track postpartum recovery” Frederick R. Brosh Honorary Lecture

“Optimizing management of a growing problem: postpartum hemorrhage revisited”

“Ultrasound guided epidural catheter placement” (Workshop)

45th Annual Society for Obstetric Anesthesia and Perinatology Meeting, San Jose, Puerto Rico, April 2013

“Use of ultrasound in obstetric anesthesia: spinals and epidurals, vascular access, and TAP blocks workshop”

Tokyo, Japan, December 2012

“Uterotonic agents: from basic science to clinical practice”

Department of Anesthesia, Jukei University, Tokyo, Japan, December 2012

“Spinal anesthesia for caesarean section”

65th Annual Post Graduate Assembly, New York, New York, December 2012

“Ultrasound-guided epidurals and spinals”

“Comprehensive Regional Anesthesia Hands-on, Cadaver and Live Models”

41st Annual Anesthesiology Review Course, University of Alabama, Birmingham, Alabama, February 2013

“Helping new mothers get ready to rock: how can anesthesiologists contribute to fast track postpartum recovery” Frederick R. Brosh Honorary Lecture

“Optimizing management of a growing problem: postpartum hemorrhage revisited”

“Ultrasound guided epidural catheter placement” (Workshop)

45th Annual Society for Obstetric Anesthesia and Perinatology Meeting, San Jose, Puerto Rico, April 2013

“Use of ultrasound in obstetric anesthesia: spinals and epidurals, vascular access, and TAP blocks workshop”

Chan, V

Visiting Professor, Department of Anesthesia, Chaoyang Hospital, Beijing, China, September 2012

“Recent Advance and Future Trend in Ultrasound Guided Regional Anesthesia”

Visiting Professor, Department of Anesthesia, Peking University No. 3 Hospital, Beijing, China, September 2012

“Recent Advance and Future Trend in Ultrasound Guided Regional Anesthesia”

Department of Anaesthesia, Xi’an, China, September 2012

“Current Concept and Future Trends of Ultrasound Guided Regional Anesthesia”

Department of Anaesthesia, Xijing Hospital, Xi’an, China, September 2012

“Recent Advance and Future Trend in Ultrasound Guided Regional Anesthesia”

Zhongshan University 1st Affiliated Hospital, Guangzhou, China, September 2012

“Live Demonstration Ultrasound Guided Regional Anesthesia”

Guangdong Provincial Hospital, Guangzhou, China, September 2012

“How to publish the papers in the international Journal”

“Recent Advance and Future Trend in Ultrasound Guided Regional Anesthesia”

Timisoara Ultrasound Guided Regional Anesthesia Workshop, Timisoara, Romania, October 2012

“Brachial Plexus Below the Clavicle”

“Peripheral Upper Limb Blocks”

“Femoral /Saphenous Nerve Block”

“Sciatic Nerve (Popliteal) & Ankle Blocks”

“Neural Block”

“Transversus Abdominis Block (TAP)/Iliioinguinal/Iliohypogastric Nerve Block”

“Pig Phantom” (Workshop)

Ultrasound Guided Nerve Block Workshop, Dubai, United Arab Emirates, October 2012

“Recent Advance and Future Trend in Ultrasound Guided Regional Anesthesia”

Department of Anaesthesia, 2nd Affiliated Hospital of Wenzhou Medicine College, Wenzhou, China, September 2012

“Recent Advance and Future Trend in Ultrasound Guided Regional Anesthesia”

Department of Anaesthesia, Xi’an, China, September 2012

“Current Concept and Future Trends of Ultrasound Guided Regional Anesthesia”

Department of Anaesthesia, Xijing Hospital, Xi’an, China, September 2012

“Recent Advance and Future Trend in Ultrasound Guided Regional Anesthesia”

Zhongshan University 1st Affiliated Hospital, Guangzhou, China, September 2012

“Live Demonstration Ultrasound Guided Regional Anesthesia”

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“Recent Advance and Future Trend in Ultrasound Guided Regional Anesthesia”

Department of Anaesthesia, 2nd Affiliated Hospital of Wenzhou Medicine College, Wenzhou, China, September 2012

“Recent Advance and Future Trend in Ultrasound Guided Regional Anesthesia”

Department of Anaesthesia, Xijing Hospital, Xi’an, China, September 2012

“Current Concept and Future Trends of Ultrasound Guided Regional Anesthesia”

Department of Anaesthesia, King Edward Memorial Hospital, Mumbai, India, October 2012

“Ultrasound for Regional Anesthesia - An Update”

“Ultrasound Guided Sciatic Nerve Block”

“Pro Con Debate- Dual Guidance with Peripheral Nerve Stimulation and Ultrasound. Lower Limb Blocks” (Workshop)

Acute & Chronic Pain Symposium, Gurgaon, India, October 2012

“Ultrasound Guided Lower Limb Blocks”

“Ultrasound Guided Central Neuraxial Block”

63rd American Society of Anesthesiologists Annual Meeting, Washington, DC, October 2012

“Workshop on Peripheral Nerve Blocks: Ultrasound, Simulation and Stimulation”

“Nerve Injury Following Regional Anesthesia: What Has Ultrasound Taught Us?”
“Anticoagulation and Regional Anesthesia”
- Department of Anesthesiology and Critical Care, University of Stellenbosch, Cape Town, South Africa, February 2013
- “Ultrasound Guide Regional Anesthesia: Current Concepts and Future Trends” (Visiting Professor)
- South African Society of Anesthesiologists Congress, Port Elizabeth, South Africa, March 2013
- “What’s New in Regional Anesthesia”?
- “How Ultrasound is Changing the Role and Outcomes of Regional Anesthesia”
- “Regional Anesthesia for Major Joint Surgery”
- International Symposium on Spine and Paravertebral Sonography for Anaesthesia and Pain Medicine for Anaesthesia and Pain Medicine, Hong Kong, China, April 2013
- “Credentialing for Ultrasound Guided Regional Anesthesia: Is This The Way Forward?”
- “Minimum Volume of Local Anaesthetic for Peripheral Nerve Blocks: Is it Desirable and How Low Can We Go?”
- “Ultrasound Imaging of the Airway workshop”
- “Bedside Quantitative Gastric Ultrasonography”
- “Ultrasound Guided Trunk, Paravertebral and Neuraxial Blocks”
- “Perineural Catheters for Postoperative Pain Management”
- “Hot Topics in Regional Anesthesia/Analgesia”
- Department of Anesthesia and Pain Management, Toronto Western Hospital, Toronto, Ontario, May 2013
- “Introductory Ultrasound Workshop”
- The 60th Annual Meeting of the Japanese Society of Anesthesiologists, Sapporo, Japan, May 2013
- “Global State and Trend of Ultrasound Guided Regional Anesthesia”
- “Future Progress of Ultrasound Guided Regional Anesthesia”
- “Hot Topics in Regional Anesthesia and Analgesia” (Keynote Speaker)
- American Society of Regional Anesthesia and Pain Medicine, Boston, Massachusetts, May 2013
- “Comprehensive Workshop: Truncal and Paravertebral”
- International Anesthesia Research Society, San Diego, California, May 2013
- “Advanced Ultrasound Guided Nerve Block” Workshop
- “Resident Ultrasound” Workshop
- “Ultrasound Guidance for Regional Anesthesia: Is There Evidence to Demonstrate Superiority Over Other Techniques?”
- 3rd National Conference of the Academy of Regional Anaesthesia of India, Pune, India, June 2013
- “Is Ultrasound the Future?” (Keynote Speaker)
- “Tips and Tricks for Ultrasound Guided Regional Anesthesia”
- “Regional Anesthesia in Obese Patients” Clinical Forum
- “Regional Ultrasound Workshop Advanced Blocks – TAP”
- “Evidence-based Perioperative Management for Shoulder Surgery”
- “Femoral nerve/Fascia iliaca/ Saphenous Blocks”
- 12th Regional Anaesthesia Course, East Surrey Hospital, Surrey, United Kingdom, November 2012
- “Clinical pearls for Common Blocks”
- “Ultrasound-Guided Neuraxial and Paravertebral Blocks” (Keynote Speaker and Workshop)
- 38th Annual Spring Meeting, American Society of Regional Anaesthesia and Pain Medicine, Boston, Massachusetts, May 2013
- “Comprehensive Truncal -Paravertebral Workshop”
- Wayne State University, Advanced Techniques in Acute and Chronic Pain Management Conference, Detroit, Michigan, May 2013
- “Ultrasound Imaging of the Lumbar Spine: How, When, and Why” (Keynote Speaker)
- University of Toronto Introductory Workshop for Ultrasound-Guided Nerve Blocks, Toronto, Ontario, September 2012
- “Sciatic Nerve: Popliteal Region”
- “Sciatic Nerve: Popliteal Region”
- “Femoral Nerve: Inguinal Region”
- 63rd American Society of Anesthesiologists Annual Meeting, Washington, DC, October 2012
- “Introduction to Ultrasound-Guided Regional Anesthesia for Beginners” (Workshop)
- “Ultrasound-guided Neuraxial Techniques” (an evidence-based review of the literature)
- “PRO: We Need to Use More Ultrasound for Spinal Anesthesia”
- 18th Regional Anaesthesia & Pain Medicine Meeting Toronto, Ontario, October 2012
- “Regional Ultrasound Workshop Advanced Blocks – TAP”

Chandra, D
- OMA Anesthesia Meeting, Toronto, Ontario, Canada, September 2012
- “The Royal College Exam: Explanations & Preparations”
- International Conference on Residency Education, Ottawa, Ontario, Canada, October 2012
- “Residency Stimulation with Simulation And Other Technologies To Embrace The 21st Century Learner”

Chin, KJ
- Aesculap Academy (B. Braun), Singapore, Malaysia, July 2012
- “Ultrasound-Guided Central Neuraxial and Paravertebral Blockade. Advanced Regional Anaesthesia & Ultrasound-Guided Peripheral nerve Block Workshop”
- University of Toronto Introductory Workshop for Ultrasound-Guided Nerve Blocks, Toronto, Ontario, September 2012
- “Sciatic Nerve: Popliteal Region”
- “Sciatic Nerve: Popliteal Region”
- “Femoral Nerve: Inguinal Region”
- 63rd American Society of Anesthesiologists Annual Meeting, Washington, DC, October 2012
- “Introduction to Ultrasound-Guided Regional Anesthesia for Beginners” (Workshop)
- “Ultrasound-guided Neuraxial Techniques” (an evidence-based review of the literature)
- “PRO: We Need to Use More Ultrasound for Spinal Anesthesia”
- 18th Regional Anaesthesia & Pain Medicine Meeting Toronto, Ontario, October 2012
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- “Evidence-based Perioperative Management for Shoulder Surgery”
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- 12th Regional Anaesthesia Course, East Surrey Hospital, Surrey, United Kingdom, November 2012
- “Clinical pearls for Common Blocks”
- “Ultrasound-Guided Neuraxial and Paravertebral Blocks” (Keynote Speaker and Workshop)
- 38th Annual Spring Meeting, American Society of Regional Anaesthesia and Pain Medicine, Boston, Massachusetts, May 2013
- “Comprehensive Truncal -Paravertebral Workshop”
- Wayne State University, Advanced Techniques in Acute and Chronic Pain Management Conference, Detroit, Michigan, May 2013
- “Ultrasound Imaging of the Lumbar Spine: How, When, and Why” (Keynote Speaker)
- University of Toronto Introductory Workshop for Ultrasound-Guided Nerve Blocks, Toronto, Ontario, September 2012
- “Sciatic Nerve: Popliteal Region”
- “Sciatic Nerve: Popliteal Region”
- “Femoral Nerve: Inguinal Region”
- 63rd American Society of Anesthesiologists Annual Meeting, Washington, DC, October 2012
- “Introduction to Ultrasound-Guided Regional Anesthesia for Beginners” (Workshop)
Choi, S
- 38th Annual Regional Anesthesia and Pain Medicine Workshops (Hands on workshop) American Society of Regional Anesthesia, Boston, USA, May 2013
  “Ultrasound guided regional anesthesia, challenging anatomy and resident curriculum”

Chung, F
- 57th Meeting of Ontario Medical Association, September 2012
  “PRO/CON – OSA Patients Need Postoperative Monitoring Protocols”
- 2nd Annual Meeting of The Society of Anesthesia and Sleep Medicine, October 2012
  “STOP-Bang Screening: How to make it work?”
- 63rd American Society of Anesthesiologists Annual Meeting, Washington, DC, October 2012
  “Obstructive sleep apnea, what an anesthesiologist should know”
  “Obstructive sleep apnea: Role in inflammation and perioperative approach”
- American College of Chest Physicians Annual Meeting, Atlanta, Georgia, October 2012
  “Obstructive sleep apnea, Role of Perioperative CPAP”
- Regional Anesthesia and Pain Medicine Conference, Niagara-on-the-Lake, Ontario, October 2012
  “Obstructive sleep apnea – GA vs Regional”
- Colorado Review of Anesthesia for SurgiCenters and Hospitals, Denver, Colorado, March 2013
  “Hot Topics in Ambulatory Anesthesia”
  “The Practical Approach to STOP-Bang Questionnaire and E&F (60) Management of Patients with Obstructive Sleep Apnea”
- University of Toronto Centre for Sleep Medicine and Circadian Biology Rounds, Toronto, Ontario, April 2013
  “STOPBang: How to make it work?”
  “Anesthesia, Nursing and OSA: Risk and Opportunity”
  “STOPBang Questionnaire: What is it and how to make it work for you”
- Hospital for Special Surgery, New York, New York, April 2013
  “STOPBang Questionnaire and Perioperative Management of OSA Patients”
- bev Leech Anesthesia Education Day, Saskatchewan Division of the Canadian Anesthesiologists’ Society, April 2013
  “Management of the Morbidly Obese ambulatory patients”
  “The Obstructive Sleep Apnea Patient: What Should You Know?”
- International Anesthesia Research Society, San Diego, California, May 2013
  “Size matters: Perioperative management of the morbidly obese”
  “Preoperative Optimization of Outcomes”
- 54th Annual McGill Anesthesia Update, Montreal, Quebec, May 2013
  “Perioperative Management of OSA”

Cooper, R
- Visiting Professor, University of Witwatersrand, Johannesburg, South Africa, July 2012
  “Oxygen delivery and uptake— calculating the meaning of life”
  “Extubation of the Difficult Airway”
  “New Airway Devices”
  “Airway Workshop”
- 63rd American Society of Anesthesiologists Annual Meeting, Washington, DC, October 2012
  “Clinical Difficult Airway Workshop and Airway Simulation”
  “Basic Adult Flexible Fiberoptic Intubation” (Workshop)
  “Panel on Video laryngoscopy: Harnessing the value of video recording”
- University of Western Ontario, 10th Airway Workshop, London, Ontario, October 2012
  “Ron Needs Lecture: Acute Pain Predictors”
- Department of Anesthesia, Southlake Regional Health Centre, Newmarket, Ontario, December 2012
  “The Phonemics and Genomics of Chronic Postsurgical Pain”
- Best Practice in General Surgery (BPIGS), Toronto, Ontario, March 2013
  “Pain Management in ERAS – Gabapentin”
- Pfizer Canada, Toronto, Ontario, May 2013
  “Perioperative Pregabalin for Total Hip Arthroplasty”
- Workshop at the Annual Meeting of the Canadian Pain Society, Winnipeg, Manitoba, Canada, Friday May 10th, 2013
  “Prevention of Chronic Postsurgical Pain: From Bench To Bedside.”

Clarke, H
- Regional Anesthesia and Pain Meeting, Niagara-on-the-Lake, Ontario, October 2012
  “Strategies for extubation and reintubation of the difficult airway”
- Department of Anesthesia, Southlake Regional Health Centre, Newmarket, Ontario, December 2012
  “Management of the patient with a Difficult Airway bracelet”
  “Airway Management” (Workshop)
- University of Toronto, Department of Anesthesia, Professor Rounds, Toronto, Ontario, October 2012
  “Extubation of the Difficult Airway”
- Canadian Academy of Dental Anesthesia, Toronto, Ontario, November 2012
  “Laryngoscopy—Past and Future”
- University Health Network, Annual Anesthesia Assistant Professional Development Day, Toronto, Ontario, November 2012
  “Laryngoscopy—Past and Future”
- Rescu Resuscitation Research, Toronto, Ontario, November 2012
  “Emergent Airway Management—Update”
- St. Mary’s Hospital, London, UK, November 2012
  “GlideScope and Video laryngoscopy”
- Abergavenny General Hospital, Abergavenny, Wales, UK, November 2012
  “Video laryngoscopy”
- Difficult Airway Society (UK) Annual Scientific Meeting, Cardiff [Caerdydd GB-CRD], Wales, November 2012
  “Getting Value from the Video in Video Laryngoscopy”
- North York General Hospital, Anesthesia Grand Rounds, November 2012
  “Extubation of the Difficult Airway”
- Society for Airway Management Satellite Meeting, Chiang Mai, Thailand, January February 2013
  “Extubation of the Difficult Airway”

Department of Anesthesia, University of Toronto, 2012 - 2013
“New Developments in Airway Management”
“Extubation of the Difficult Airway”
“Video laryngoscopy” (Workshop)

- XVI Curso Téorico-Practico De Manejo de la Vía del la via Aérea e Intubación Dificil, Valencia, Spain, February 2013
- “Getting More Value from the Video in Video laryngoscopy”
- “Video laryngoscopy” (Workshop)
- Toronto Anesthesia Symposium, Toronto, Ontario, April 2013
- “Extubation of the Difficult Airway”
- “Airway Management” (Workshop)
- The European Society of Anaesthesiology, Annual Scientific Meeting, Barcelona, Spain, May - June 2013
- “Teaching the Teachers: Video Laryngoscopy” (Workshop)
- “Airway Management: Rigid Video Laryngoscopy” (Workshop)

Cox, P
- IX Pediatric & Neonatal Mechanical Ventilation Symposium. Sao Paolo, Brazil, August 2012
- “Evolution & Adaptation, Respiratory mechanics in ARDS.”
- Critical 4 Africa Conference. South Africa, August 2012
- “Quality of Care, Communication, Early de-intensification- who and how”?
- Canadian Critical Care Congress. British Columbia, Canada. January 2013
- Dept of Physiology & Experimental Medicine Program. Toronto, Canada, March 2013
- “Artificial Ventilation”

- Southlake Regional Centre. New Market, Ontario, Canada, March 2013
- “Paediatric Grand Rounds”
- Transport Consensus Conference. ORNGE Headquarters, Mississauga, Ontario, Canada. May 2013

Curley, G
- St Michael’s Hospital Grand Rounds, Toronto, (Continuing Education) September 2012
- “Mesenchymal Stem Cells for Repair of the Injured Lung”
- St Michael’s Hospital Grand Rounds, Toronto, (Continuing Education) February 2013
- “Mesenchymal Stem Cells for Repair of the Injured Lung”
- University of Toronto, Shields Day Research in Progress Lecture, May 2013
- “Harnessing Mesenchymal Stem Cell Interactions in ARDS and Sepsis - Making Each Cell Matter”
- Queens University Belfast Symposium, Cell Based Therapy – The Future, June 2013
- “Cell therapy for ARDS - can we make it even better?”
- Intensive Care Society of Ireland, Annual Meeting, Dublin, 2013
- “Is it possible to repair the injured lung?”

Cuthbertson, B
- Annual conference of the UK Division of Health Psychology, England, Liverpool, United Kingdom, September 2012
- “Do elicitation studies really identify important beliefs? A test of the cognitive accessibility assumption in a multinational Delphi study set in critical care”
- “Evaluating the clinical and cost effectiveness of educational interventions for preventing vascular catheter bloodstream infections in critical care.”
- Department of Critical Care Medicine, The Hospital for Sick Children, Toronto, Ontario, April 2013
- “Team Work in the ICU, Research Rounds”

Devito, I
- Mississauga Academy of Medicine: Faculty Development Symposium, Mississauga, Ontario, September 2012
- “Teaching Anesthesia in the Real World: Undergraduate Medical Education” (Keynote Speaker)
- 18th Regional Anesthesia and Pain Medicine Conference, Niagara-on-the-Lake, Ontario, October 2012
- “Team Interactions in the Operating Room: The Andrew Anelevitz Lecture”
- Faculty Development Day, Department of Anesthesia, University of Toronto, Toronto, Ontario, November 2012
- “Undergraduate Education: Teaching Medical Students” (Workshop)
- Anesthesia Practice Meeting, University of Toronto, Department of Anesthesia, Toronto, Ontario, November 2012
- “Obstetrical Morbidity and Mortality: Review of Cases”
- Mississauga Hospital Grand Rounds, Mississauga, Ontario June 2013
- “Undergraduate Medical Education – UTM”

Djaiani, G
- Latvian Association of Anaesthesiologists, Organized by European Society of Anaesthesiologists, Satellite Meeting, Riga, Latvia, September 2012
- “TEE in cardiac surgery and ICU”
- The Association of Anaesthesiologists of Great Britain and Ireland, Bournemouth, UK, September 2012
- “POCD: How much is down to the anaesthetist?” (Keynote Speaker)
- “Future in cardiac anaesthesia research”
- 13th International Congress of Cardiothoracic and Vascular Anesthesia - combined with the New Zealand Society of Anaesthetists (NZSA), Auckland, New Zealand, November 2012
- “LVAD and perioperative management”
- Organized by Mount Sinai Hospital, New York, USA, Curacao, Caribbean, January 2013
- “Factor VIIa. Anesthesia Update”
- Webinar, Hospira, Toronto, Ontario, April 2013
- “Optimal sedation in intensive care unit”

Everett, T
- SIM-one Ontario Simulation Organization, Toronto, Ontario, Canada, December 2012
- “Highlights of Research Abstracts” - Expert reviewer of research abstracts submitted.
- Royal College of Physicians and Surgeons of Canada Simulation Summit, Ottawa, Ontario, Canada, November 2012, Presenter(s): Everett T, Ng E, Tolchard S, Marsh C, Power D, Shadrina A, Boul D (oral presentation)
- “Evaluating performance in pediatric anesthesiology simulation: piloting tools for the Managing Emergencies in Pediatric Anesthesia (MEPA) course”
- Managing Emergences in Paediatric Anaesth,
Network Annual National Meeting, Portsmouth, United Kingdom, May 2013, Presenter
“MEPA Research Progress Report”

International Pediatric Simulation Society, New York, New York, United States, April 2013, Presenter(s): Everett T, Ng E, Tolchard S, Marsh C, Power D, Shadrina A, Bould D. (oral presentation)

“Evaluating performance in pediatric anaesthesia simulation: piloting tools for the Managing Emergencies in Pediatric Anesthesia (MEPA) course”

The Hospital for Sick Children, Toronto, Ontario, Canada, June 2013, Presenter(s): Everett T, Ng E, Goh N, Cyr J.

“Managing Emergencies in Paediatric Anaesthesia (MEPA) International Telesimulation”

Fisher, J
- Department of Radiology and the Department of Radiotherapy, University of Utrecht, Netherlands, July 2012
  “Systematic control of blood gases with 7T Magnetic Imaging for imaging brain and tumor vascular reactivity”
- Hospital for Sick Children Department of Anesthesia, Grand Rounds, September 2012
  “Pseudocontinuous non-invasive cardiac output—and no fudge factors”
- First Affiliated Hospital of Guangzhou Medical College Respiratory Disease conference, Guangzhou, PRC, October 2012
  “Respiratory clearance of carbon monoxide” (Keynote talk)
- Grand Rounds, Kingston General Hospital, Kingston, Ontario, October 2012
  “The steal phenomenon in vascular stress tests: heart and brain”.
- Cardiology rounds, Queens University, Kingston, Ontario, October 2012.
  “Non-invasive cardiac output: overcoming previous accuracy limitations”

Gagliese, L
- IASP Special Interest Group Research Meeting on Pain in Older Persons, World Congress of Pain, Milan, Italy, August 2012
  “Pain and aging: setting a research agenda”
- Pain in the older person: open panel” (Chair)
- Pain in older people: the importance of the situational context” (Chair)
- Annual Scientific Meeting: Building Research Capacity in Pain, University of Toronto, Centre for the Study of Pain, Toronto Ontario, February 2013
  “Being and Becoming a Pain Researcher” (Panel member)
- Calgary Chronic Pain Symposia Series, Alberta Health Services, Calgary, Alberta, February 2013
  “At my age... Examining adjustment to pain across the adult lifespan. Pain and Aging: Do the rules change”
- Annual Meeting of the Canadian Pain Society, Winnipeg, Manitoba, May 2013
  “Pain in older cancer patients with delirium at the end of life: Towards a standardized assessment protocol”
  “Assessment of cancer pain across the lifespan: Evidence, challenges and future directions” (Chair)

Garavaglia, M
- Neuroanesthesia Combined Rounds (TWH-SMH) Toronto Western Hospital, Canada, September 2012
  “Serum Lactate in Neurosurgical Patients”
- Anesthesia grand rounds – University Hospital, London, Ontario (Continuing Education), October 2012
  “Understanding serum lactate during craniotomy”
- Anesthesia Grand Rounds-University Hospital, London, Ontario, Canada, Understanding Serum Lactate During Craniotomy, October 2012
  “Understanding serum lactate during craniotomy”
- Breakfast of our Champions 2012 Research, Education and Patient Care: Blueprint for Quality Care, St. Michael Hospital, Li Ka Shing Knowledge Institute, University of Toronto, Toronto, November 2012
  “Serum Lactate: A potential marker of tissue ischemia or metabolic dysfunction during prolonged craniotomy for brain tumor resection”
- International Anesthesia Research Society (IARS) Annual Meeting, San Diego, United States, May 2013
  “Dexmedetomidine for complex patients undergoing awake craniotomy”
- Perioperative Research, Education, Posters & Presentations Day (PREPP) - Li Ka Shing Knowledge Institute, University of Toronto, Canada, May 2013
  “Hyperlactatemia during Craniotomy: Evidence of muscle Hypoperfusion?”
  “Dexmedetomidine for complex patients undergoing awake craniotomy”

Gardner-Nix, J
- Sunnybrook Health Sciences Centre, Hospitalists Rounds, Toronto, Ontario, Canada, May 2013
  “Updating Chronic Pain Management with Mindfulness”

Goldszmidt, E
- 57th Meeting of Ontario Medical Association, September 2012
  Tariff Report.
- Women and Infants Program, Mount Sinai Hospital, Toronto, Ontario, April 2013
  “Meet the Anesthesiologist”
- 45th Annual Society for Obstetric Anaesthesia and Perinatology Meeting, San Jose, Puerto Rico, April 2013
  “Ultrasound or Vascular Access” Workshop
- 54th Annual McGill Anesthesia Update, Montreal, Quebec, May 2013
  “The Parturient with Cardiovascular Disease”

Halpern, S
- Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada, Obstetrical anesthesia for respiratory technologists, March 2013
  “Obstetrical Anesthesia: Special problems including airway management. Respiratory technologists education day”

Hanlon, J
- American Society of Anesthesiologists Annual Scientific Meeting, Washington DC, October 2012
  “Effect of Bilateral Scalp Nerve Blocks on Postoperative Pain in Patients Undergoing Supratentorial Craniotomy and General Anaesthesia”
  “Comparison of Ultrasound-Guided Versus Blind Intrathecal Pump Refill in Novice Trainees”
- University of Toronto, Department of Anesthesia Faculty Development Day, December 2012
“Comparison of Ultrasound-Guided Versus Blind Intrathecal Pump Refill Among Novice Trainees”

- Ultrasound-Guided Placement of a Paddle Lead onto Peripheral Nerves”
- Filipino-Canadian Medical Society (FCMS), Ontario, Canada, Invited to speak about chronic pain and opioid management, May 2013
- “Opioids in Chronic Pain Management: Safe and Effective Prescribing”
- SMH Department of Anesthesia, Ontario, Canada, Combined Grand Rounds, June 2013
- “Achieving Quality through Measurement Based Pain Management: Theory and Technology”

Hare, G

- St. Michael’s Hospital Li Ka Shing Knowledge Institute, September 2012
  - “Tolerance of anemia-physiological mechanisms. Patient Blood Management: An idea who time has come”
- Montreal Heart Institute, Department of Cardiovascular Anesthesiology, September 2012
  - Prospective Analysis of Methemoglobin as a Biomarker of Tissue Hypoxia During Acute Hemodilution in Patients Undergoing Heart Surgery”
- American Society of Anesthesiologists annual meeting, Washington DC, October 2012
  - “Physiological and Hypoxic Cellular Adaptation to Anemia and Hemodilution”
- The 22nd David Power Memorial Lecture, University of Ottawa, Department of Anesthesia, October 2012
  - “Anemia, β-Blockade and Surgery: The Perfect Storm for Perioperative Tissue Hypoxia and Adverse Patient Outcomes”
- Canadian Cardiovascular Congress: 11th Annual Cardiovascular Trainee Day Focus on Translation, October 2012
  - “Beta-Blockers in Perioperative Medicine: Can We Achieve Translational Success?”
- Center for Free Radical Biology, University of Birmingham at Alabama, November 2012
  - “Anemia and nitric oxide signaling”
- Department of Anesthesiology, University at Buffalo, Buffalo, New York, June 2013
  - “Translational approaches to defining the hemoglobin threshold for tissue hypoxia and adverse outcomes as a means to optimize transfusion therapy in cardiac surgery.”
- Department of Anesthesiology, Engelwood Hospital and Medical Center, Mount Sinai School of Medicine, Engelwood, New Jersey, May 2013
  - “Anemia: Can we define hemoglobin thresholds for impaired oxygen homeostasis and suggest new strategies for treatment?”

Heggie, J

  - “Dissection of Porcine Hearts with Relation to TEE Images” (Interactive Web Lab with Dr. AR. Edwards)

Ho, A

- St. Michael’s Hospital, Perioperative Services Grand Rounds. Presenter(s): Ho, Alexander Siu-On (Continuing Education), January 2013
  - Electrical and Oxygen Supply Failure”

Hockmann, E

- Canadian Critical Care Forum/ Canadian Critical Care Society (CCCF/CCCS) Presenter(s) Hockmann E, Goffi, A and Abrahamson, S, October 2012
  - “Ultrasound in the ICU: You are Blind Without it”
- Anaesthetic practice, Toronto, Canada, November 2012
  - “A Cardiac Emergency in PAC”
- North York General Hospital Dept of Anesthesia Grand Rounds North York, Ontario, Canada, April 2013
  - “Perioperative MI; Mechanisms, Prevalence, Diagnosis, Management and Implications”
- CCUS Annual Symposium: 2013 Challenging dogma in adult and paediatric acute care, Sainte-Justine University Health Center, Montreal Quebec Canada, May 2013
  - “The Microcirculation”
  - “Unconventional Therapies; Searching for the Right Application”
- Southlake Dept of Anesthesia Grand Rounds, Newmarket, Ontario, Canada, June 2013
  - “How to avoid ultrasound guided central line associated complications”

Holby, H

- International Assembly for Pediatric Anesthesia, Washington, United States, October 2012
  - “Pulse Oximetry Based Hemoglobin Determination”
- Dept. of Anesthesia Rounds, The Hospital for Sick Children, Toronto, January 2013
  - “Bleeding issues II: Massive Transfusion”

Houston, P

- Australian Society of Anesthesiologists, Australia, 2012
  - “Sustainability of Healthcare - how do we move forward”
- BCAS Annual Meeting, Vancouver, British Columbia, Canada, December 2012
  - “Professionalism in Canadian Anesthesiology”
- BCAS, Canada, December 2012
  - “Physician Leadership - Anesthesia at a Crossroads”
- Canadian Conference on Medical Education, Canada, April 2013
  - “Bleeding issues I: Antibifibrinolytics”
  - “Neurological Complications and CHD”
- Heart Centre’s SickKids/George Brown Interprofessional Acute Care Paediatric Cardiology Certificate Course, Toronto (Continuing Education), February 2013
  - “Patient Monitoring”
- World Congress in Pediatric Cardiology and Cardiac Surgery. Capetown, South Africa. February 2013
  - “Efficacy of Aprotinin and antifibrinolytics in heart surgery. World Congress Paediatric Cardiology and Cardiac surgery.”
- Dept. of Anesthesia Rounds, The Hospital for Sick Children, Toronto, March 2013
  - “Anesthesia for Cardiac Catheterization”
- Chinese Society of Pediatric Anesthesia, Guangzhou, China, May 2013
  - “Evaluating New Equipment”
- Dept. of Anesthesia Rounds, The Hospital for Sick Children, Toronto, June 2013
  - “Survivor! Adult/Adolescent CHD”
“Professsionalism in Undergraduate Medical Education”

**Jadad, A**

- Barranquilla Chamber of Commerce, Barranquilla, Colombia, August 2012
  - “Continuum of Care and Remote Patient Monitoring” (Keynote Speaker)
- Colombian Congress on Periodontology, Santa Marta, Colombia, August 2012
  - “What is health?”
  - “Is our existence justified in the 21st Century?” (Keynote Speaker)
- World Cancer Leaders’ Summit and 2012 UICC World Cancer Congress, Montreal, Quebec, August 2012
  - “mHealth Apps”
  - “Do we really know what we mean by ‘health’?” (Opening Keynote Lecture)
- Faculty of Dentistry of the Autonomous University of Puebla, Mexico, Puebla, Mexico, October 2012
  - “Decisiones Basadas En Evidencias and Se justifica nuestra existencia en el Siglo XXI?” (Keynote Speaker)
- OSDE Foundation International Seminar at Cordoba, Argentina, Cordoba, Argentina, October 2012
  - “Health systems: where are they going?” (Keynote Speaker)
- TECHNA 2012: information and communication technologies for health, Toronto, Ontario, October 2012
  - “Information and communication technologies for health: C.R.A.P.”
- Canadian Summit on Sustainable Health and Health Care, Toronto, Ontario, October 2012
  - “Canada: the land of Insurmountable Opportunities”
- Pfizer Science Institute, Bogota, Columbia, November 2012
  - “What would we ask a ‘genie’ willing to grant us one wish about the future of health?” (Keynote Speaker)
- 2012 Toronto Cancer Conference, Toronto, Ontario, November 2012
  - “Is it possible to live with cancer and be healthy?” (Keynote Speaker)
- Health Tourism of the Ministry of Trade, Industry and Tourism in Colombia, Bogota, Colombia, November 2012
  - “Hospitals and Entertainment: Opportunities to reinvent the health and wellness tourism in Colombia”
- Board of Directors Meeting of William Osler Health System, Brampton, Ontario, February 2013
  - “Improving the patient experience through excellent disruptive innovation.” (Keynote Speaker)
- CIHR Strategic Training Program in Public Health Policy, University of Toronto, Toronto, Ontario, February 2013
  - “From public diseases to public health policy and beyond...” (Public Health Policy Rounds)
- Conference on Multimorbidities and the last phase of life, University of Edinburgh, Edinburgh, Scotland, February 2013
  - “Multimorbidity and end of life care: What’s next?”
- EU Science Global Challenges Global Conference, Brussels, Belgium, March 2013
  - “Hippocratic Innovation- What’s the next ‘next’?”
- Pfizer, Cartagena, Colombia, March 2013
  - “New Definition of Health” Rheumatology Forum (Keynote Speaker)
- Catreda Europa, Universidad del Norte, Barranquilla, Colombia, March 2013
  - “Achieving a long, healthy and happy life, until the last breath: the most important challenge of our time”
- Congress on Integrated Care for the Elderly, Pfizer, Panama City, Panama, April 2013
  - “What do we mean by “health”? The answer could revitalize Internal Medicine.”
- Professor Rounds, Department of Anesthesia, University of Toronto, Toronto, Ontario, April 2013
  - “Looking beyond the OR: Is there a role for anesthesiologists in a 21st century health system?”
- Centre for Global eHealth Innovation, Lunch & Learn, Toronto, Ontario, April 2013
  - “Let’s talk about love and happiness - An open conversation”
- Global Health Professional Advisory Initiative for Students (GHPAIS) at the Dalla Lana School of Public Health, University of Toronto, Toronto, Ontario, April 2013
  - “Living a healthy and happy life till the last breath.” Professional Development Speaker Series
- Think Tank on Adolescent Health, Brown University, Providence, Rhode Island, May 2013
  - “Adolescent-Centered Care: Promoting long, healthy and happy lives world-wide.”
- Meeting of Deans of the Canadian Association of Allied Health Programs (ACCHP), Calgary, Alberta, May 2013
  - “What would we ask a ‘genie’ willing to grant us one wish about the future of education and clinical practice?” (Keynote Speaker)
- Patient Education Lunch & Learn session - Princess Margaret Hospital, Toronto, Ontario, May 2013
  - “Living a healthy and happy life with cancer: desirable and achievable”
- 2013 National Health Leadership Conference, Niagara Falls, Ontario, June 2013
  - “Driving action and implementation”
- CONGRESO COLOMBIATICO 2013, Bogota, Distrito Capital de Bogotá, Colombia, June 2013
  - “A healthy and happy life till the last breath: Challenge in the digital age” (Keynote Speaker)
- IEEE International Symposium on Technology and Society, Toronto, Ontario, June 2013
“Wearable computing and augmented reality”

Jariani, M
- 10th Annual Toronto Perioperative Transesophageal Echocardiography Symposium, Toronto, Ontario, November 2012
- “Interesting Cases” Workshop
- Department of Anesthesia and Pain Management, Toronto General Hospital, Toronto, Ontario, February 2013
- “Assessment of right ventricular function, FOCUS’ teaching course”
- ERAS training group (BPIGS), Toronto, Ontario, April 2013
- “A Role of Epidurals for ERAS”
- Department of Critical Care Medicine, Grand Rounds, St. Michael’s Hospital, Toronto, Ontario, April 2013
- “A Volatile agents for long-term ICU sedation”

Joshi, M
- Faculty Development Day, Department of Anesthesia, University of Toronto, Toronto, Ontario, November 2012
- “Evaluating Medical Students”

Karkouti, K
- Ontario Anesthesia Meeting, Toronto, Ontario, September 2012
- “Anemia and Outcomes”
- 63rd American Society of Anesthesiologists Annual Meeting, Washington, DC, October 2012
- “Prevention and treatment of anemia in cardiac surgery”
- University Health Network, Department of Nephrology, Grand Rounds, Toronto, Ontario, Canada, December 2012
- “Transfusion and acute kidney injury”
- Mount Sinai School of Medicine (NY) Annual Symposium, Willemstad, Curacao, January 2013
- “Transfusion Trigger: Balancing the risks of anemia versus transfusion”
- University of Toronto, Transfusion Medicine Retreat, Toronto, Ontario, Canada, April 2013
- “Perioperative transfusion triggers”
- Blood and Beyond, Halifax, Nova Scotia, Canada, April 2013
- “Antifibrinolytic drugs”
- European Society of Anaesthesiology, Barcelona, Spain, June 2013
- “Chair of Symposium, Perioperative bleeding: haemostatic therapy in cardiovascular surgery and obstetric emergencies”
- University Health Network, Toronto General Hospital, Department of Anesthesia and Pain Management, June 2013
- “Improving Outcomes with Point-of-Care Hemostasis Testing in Cardiac Surgery?”
- Perioperative Anesthesia Clinical Trials Meeting, Calgary, Alberta, Canada, June 2013
- “Update on ATTACK”
- “A cluster randomized trial to access the efficacy of point of care based algorithms”

Karsli, C
- Division of Urology, University of Toronto, Toronto, Ontario, Canada, August 2012
- “Anesthesia for Laparoscopic Surgery in Children”
- Society for Airway Management, Toronto, Ontario, Canada, September 2012
- “Pediatric Fiberoptic and Videolaryngoscopic Intubation”
- Toronto Anesthesia Symposium, Toronto, Ontario, Canada, November 2012
- “Pediatric Airway Management - Routine and Difficult”
- University of Western Ontario, London, Ontario, Canada, (Trainee Presentation) May 2013
- PGY-5 Royal College Exam Preparation
- North York General Hospital Dept of Anesthesia, North York, Ontario, Canada, April 2013
- “Pediatric Airway Management - Beyond the Routine”
- University of Toronto, Toronto, Ontario, Canada, April 2013
- “Pediatric Airway Management”
- Division of Otolaryngology, University of Toronto, Toronto, Ontario, Canada, April 2013
- “Pediatric Difficult Airway Management”

Kataoka, M
- Philippine Society of Anesthesiologists Negros Occidental, Bacolod City, Negros Occidental, Philippines, Feb 2013
- “ECHO for Anaesthetists”

Katz, J
- 14th World Congress on Pain, Milan, Italy, August 2012
- “Characteristics of PTSD in relation to acute and chronic pain. Topical Workshop: The Interplay of Post-Traumatic Stress Disorder (PTSD), Stress and Pain in the Wake of Trauma”
- 51st International Spinal Cord Society Annual Scientific Meeting, London, United Kingdom, September 2012
- “Predicting health preference in spinal cord injury”
- “Patient Specific Functional Scale: Validity in patients with upper extremity nerve injury”
- University of Regina and University of Saskatchewan Inter-Professional Pain Conference, Regina, SK, January 2013
- “Biopsychosocial factors involved in the transition from acute to chronic pain after surgery” (Keynote Address)
- 34th Annual Conference of the Canadian Pain Society, Winnipeg, Manitoba, May 2013
- “Risk and Protective Factors associated with Chronic Postsurgical Pain. Symposium on Prevention of Chronic Postsurgical Pain: From Bench to Bedside”
- “This won’t hurt a bit: Reflections on a “Painful” Career” Keynote Address, Distinguished Career Award
- “Symposium on Ethical Controversies in Pain Research. Deception in experimental human pain research: Is there an alternative?”
- 4th Annual Meeting on Pediatric Pain, Tarragona/ Reus, Spain, May 2013
- “The transition from acute to chronic pain after surgery in children”
Katzelson, R
- Canadian Academy of Dental Anaesthesia, Toronto, Ontario, November 2012
  “What should we know about geriatric anesthesia?”
- Department of Anesthesia and Pain Management, Grand Rounds, Toronto, General Hospital Toronto, Ontario, March 22, 2013
  “Hyperbaric oxygen therapy: indications, side effects, complications”

Kavanagh, BP
- Paediatric Intensive Care Society (PICs) Annual Conference, Dublin, Ireland, September 2012
  “Getting stuck with guidelines – Lessons from Glucose in ICU” (plenary lecture)
- 4th Congress of the European Academy of Paediatric Societies (EAPS), Istanbul, Turkey, October 2012
  “Respiratory Failure” (Chair)
  “Pro-Con debate: RCTs in ICU setting: sense or no sense” (CON)
  “Control of Breathing” (Chair)
- American Society of Anesthesiologists (ASA) Annual Meeting, Washington, USA, October 2012
  “We Give Too Much Fluid for High Risk Surgery” (Co-Chair)
- European Society of Intensive Care Medicine 25th Annual Congress, Lisbon, Portugal, October 2012
  “Targeting normal values in critical illness – what is the rationale”?
  “Molecular Mechanisms in Sepsis” (Chair)
  “Open lung strategies during shock: balancing competing priorities”
  “Pediatric respiratory insufficiency”
- ANZICS/ACCCN Intensive Care Annual Scientific Meeting, Adelaide, Australia, October 2012
  “Acute lung injury” (paediatric plenary)
  “Lessons learned from trials of PEEP”
  “Was Nice-Sugar really Necessary”?  
- Critical Care Canada Forum, Toronto, Canada, October 2012
  “Plenary RCT: The CHEST Trial” (Co-Moderator)
  “Do circulating mediators cause VILI”?  
  “Plenary address: Evidence-Based Guidelines for Sedation in 2012: Are We There”? (Co-Moderator)
- 42nd SCCM Critical Care Congress, San Juan, Puerto Rico, January 2013
  The Max Harry Weil Memorial Lecture - Plenary lecture
  “At the Bedside – What to Do and Who to Believe”
- Organ & Tissue Donation and Transplantation for System Improvement, Toronto, Canada, February 2013
  “Improving organ donation: the paediatric perspective”
- 24th SMART Congress, Milan, Italy, May 2013
  “Evidence based medicine: good and bad”
  “VILI and circulating mediators: what do we know”?
- BiAnnual Controversies in Perioperative Medicine, Beaune, France, May 2013
  “How valid are guidelines”?  
  “Tight glucose control may be a bad idea”
  “Normalizing parameters can be a bad idea”
  “How do mechanical ventilators injury lungs”?  
  “Are protocols useful”?  
- 7th Alfred Advanced Mechanical Ventilation Conference (AAMVC), Melbourne, Australia, June 2013
  “How ventilators injure lungs – one viewpoint”
- 2012 Annual Meeting of the Canadian Academy of Dental Anaesthetics, Toronto, Ontario, October 2012
  “Sedation: an independent variable”
- 2013 Canadian Congress of Anesthesiologists/Canadian Anesthesiologists’ Society (CCCA/CAS), Toronto, Ontario, June 2013
  “At the bedside: what is the rationale?”
  “How do we make better decisions?”

Kim, H
- Harvard Perioperative Transesophageal Echocardiography and Annual Echo Boards Review Course, Boston, Massachusetts, September, 2012
  “Physics and Hemodynamics - Echo Boards Review”
- Annual Harvard Anesthesia Research Night Poster Presentations, Boston, Massachusetts, October, 2012
  “Changes in Mitral Annular Geometry After Aortic Valve Replacement: A Three-Dimensional Transesophageal Echocardiographic Study”
- Annual Harvard Anesthesia Research Night Poster Presentations, Boston, Massachusetts, October, 2012
  “Right ventricle myocardial performance in patients undergoing elective coronary artery bypass graft surgery”
  “Harvard Anesthesia Update: TEE Workshop with Advanced Simulators”
- 2013 Society of Cardiovascular Anesthesiologists 35th Annual Meeting and Workshops, Miami Beach, Florida, June 2013
  “Dynamic Mitral Annular Geometry Following Partially-Flexible Annuloplasty”
- University Health Network, Toronto Western Hospital, Toronto, Ontario, May 31, 2013
  “Basic Ultrasound for Regional Anesthesia” Course and Workshop
- Regional Anesthesia and Pain Resource Nurse Program, Centre Hospitalier Universitaire Vaudois - Dr. E Albrecht, Lausanne, Switzerland, June 6, 2013
  “Ultrasound-guided regional anesthesia”
  “Benefits of Regional Anesthesia: Pain control and beyond”

Kirkham, K
- University Health Network, Toronto Western Hospital, Toronto, Ontario, September 2012
  “Basic Ultrasound for Regional Anesthesia” Course and Workshop
- Regional Anesthesia and Pain Medicine Conference, Niagara-on-the-Lake, Ontario, October 2012
  “Ultrasound Guided Peripheral Nerve Blockade”
- American Society of Regional Anesthesia and Pain Medicine, Boston, Massachusetts, May 4, 2013
  “Ultrasound-Guided Transversus Abdominis Plane (TAP) Block for Laparoscopic Gastric-Bypass Surgery: a Prospective Randomized Controlled Double-Blinded Trial”
- University Health Network, Toronto Western Hospital, Toronto, Ontario, May 31, 2013
  “Basic Ultrasound for Regional Anesthesia” Course and Workshop
- Regional Anesthesia Symposium, Centre Hospitalier Universitaire Vaudois - Dr. E Albrecht, Lausanne, Switzerland, June 6, 2013
  “Ultrasound-guided regional anesthesia”
  “Benefits of Regional Anesthesia: Pain control and beyond”
Laffey, J
  “In vivo inhibition of pulmonary nuclear factor kappa-B attenuates ventilator induced lung injury”
  “Investigation of the role of NF-kB in mediating the effects of metabolic acidosis on wound healing”
  “Overexpression of Secretory Leukocyte Protease Inhibitor (SLPI) and Glutathione Peroxidase-3 (GPX-3) attenuate inflammation and oxidant mediated pulmonary epithelial injury”
  “Inhibition of pulmonary nuclear factor kappa-B modulates Acute and Chronic Pneumonia induced Lung Injury”
  “The role of Intra-Tracheal versus Systemic delivery of Mesenchymal Stem Cells during recovery and resolution following Ventilator Induced Lung Injury”
  “Human Mesenchymal Stem Cell-Conditioned Medium may be protective in Stretch-induced Pulmonary Epithelial Injury”
- European Society of Intensive Care Medicine Annual Conference, Lisbon, October 2012
  “Stem cells for ALI/ARDS”
  “Hypocapnia. Friend or foe.”
- Toronto Critical Care Medicine Symposium, Toronto, October 2012
  “Hypocapnia and the Injured Brain: More Harm than Benefit.”
  “Prone position in ARDS – A randomized Clinical Trial.”
  “Mesenchymal Stem Cells for ALI/ARDS: Promise and Pitfalls.”
  “Buffering a permissive Hypocapnia – the Evidence.”
  “Stem cells to speed recovery from ARDS.”

Laussen, P
- Critical Care Canada Forum 2012, Toronto, Ontario, October 2012
  “Predicting Adverse Events Through Monitoring”
- American Academy of Orthopaedic Surgeons, Fall meeting, Philadelphia, PA, October 2012
  “Safety and Quality: Lessons from NASC and NASA”
- The Pediatric Cardiac Intensive Care Society, 9th International Conference, Miami, December 2012
  “The Future of monitoring data management: Real-time risk management and data interrogation”
  Debate: “Con: Palliative care should be instituted for every patient with HLHS at the time of diagnosis”
- 6th World Congress in Pediatric Cardiology and Cardiac Surgery, Cape Town, SA, February 2013
  “The anaesthetist as intraoperative intensivist”
  “Inotropes: Current evidence for usage and future possibilities”
  “Infection control as a cost saving investment”
  “New approach to data capture and analysis in the ICU: T3”
  “Perioperative Care: Quality and Safety” Session co-moderator.
- University of Toronto Critical Care Medicine Residents’ Day, June 2013
  “Modifiable Risk… or Lack Thereof”

Levine, M
- Trillium Hospital, Mississauga, Ontario, Canada. Professional Development event, September 2012
  “Teaching Anesthesia in the Real World.”

Loffelmann, C
- Making A Mark, Toronto, Ontario, Feb 2013
  “Sample Oral Exam Questions”
- Making A Mark, Toronto, Ontario, Feb 2013
  “Toxins in the Operating Room”

Manninen, P
- ChinaJapan Friendship Hospital, Beijing, China, November 2012
  “Challenges for the anesthesiologist in airway management in neurosurgical patients”
  “Update in Neuroanesthesia: What is New?”
- Addis Ababa University, Department of Neurosurgery, Black Lion Hospital, Ethiopia, Adis Abeba, March 2013
  “Awake Craniotomy”

Margarido, C
- 7th Obstetrical Anesthesia Day, Toronto, Canada, November 2012
  “Symptomatic parturient presenting Arnold-Chiari Malformation II for urgent Cesarean Delivery”

Maynes, J
- Anesthesia Grand Rounds, St. Michael’s Hospital, Toronto, October 2012
  “Anesthetic Effects on Metabolism and the Mitochondria”
- Grand Rounds, Toronto General Hospital, Toronto, May 2013
  “Anesthetic Effects on Cellular Metabolism and the Mitochondria”

McDonnell, C
- Dept of Anesthesia Research in Progress, The Hospital for Sick Children, Toronto, May 2013
  “Measuring Drug Toxicity: Mitochondrial Function, Cellular Metabolism and Stem Cell Models”

Mazer, CD
- International Forum of Cardiovascular Anesthesia (IFCA), the 8th International Chinese Cardiovascular Anesthesia Forum (ICCAF), China Heart Congress 2012, Beijing, China, August 2012.
  “Update on best practices” (Blood transfusion, HIT, and antifibrinolysis).
  “Controversies about antifibrinolytic agents and new antithrombotic drugs in cardiac surgery”.
- Canadian Cardiovascular Society meeting, Toronto, Ontario, Workshop participant, October 2012
  “How to balance efficacy vs bleeding risks in ACS patients destined for CABG”? 
- Canadian Cardiovascular Society meeting, Toronto, Ontario, October 2012
  “Implementation of the new Nurse Practitioner (NP) authorities to optimize care and patient flow for cardiovascular surgical patients”.
- New Zealand Anesthesia Annual Scientific Meeting combined with the 13th International Congress of Cardiothoracic and Vascular Anesthesia, Auckland, New Zealand, November 2012
  “New antithrombotic drugs in cardiac and non-cardiac patients”

McDonnell, C
- Department of Anesthesia, Scarborough Grace & General Hospitals, Toronto, Ontario, Canada, October 2012
“Opioid and other medication errors in pediatric anesthesia”.

McKnight, D
- Association for Medical Education in Europe (AMEE) 2012, Lyon, France, August 2012
- “Recruiting Top Medical School Applicants to Your School: Insight from a Student Opinion Survey.”
- 51st Annual Research in Medical Education Conference, San Francisco, California, November 2012
- “Enhanced Recruitment Strategies for Top Medical School Applicants.”

McCartney, C
- American Society of Anesthesiologists Annual Meeting, Washington, DC, October 2012
  “Current Controversies in Regional Anesthesia” Session Chair
- American Society of Anesthesiologists Annual Meeting, Washington, DC, October 2012
  “Acute Pain and Regional Anesthesia” Poster Session Chair
- Undergraduate Lecture, Department of Human Biology, University of Toronto, October 2012
  “Biography of Pain”
- Royal College of Anaesthetists, London, UK, November 2012
  “Regional Anaesthesia- Improving Postoperative Care”

Holland Centre Preceptorship, Toronto, ON, January 2013
- “Continuous peripheral Nerve Blocks: Principles and Practice”
- American Society of Regional Anesthesia, Boston, MA, May 2013
- “Continuous peripheral nerve blocks” Workshop
- American Society of Regional Anesthesia, Boston, MA, May 2013
- “Evidence-base for use of ultrasound for brachial plexus blocks”
- University of Calgary Anesthesia Residents, June 2013
  “Beginning a career in academia: the good, the bad and the ugly”
- University of Calgary, Department of Anesthesia, June 2013
  “Does type of anesthesia and analgesia really matter for total knee replacement?”
  Visiting professor
- University of Calgary, Department of Anesthesia, June 2013
  “Has ultrasound changed the way we perform brachial plexus blocks?”
  Visiting Professor

McCluskey, S
- Department of Anesthesia and Pain Management, Grand Rounds, Toronto General Hospital, Toronto, Ontario, September 2012
- “Enhanced Recovery After Surgery: A Best Practice in General Surgery”
- Sponsored by Edwards Life Sciences, Toronto, Ontario, November 2012
- “Goal Directed Fluid Therapy as Part of an Enhanced Recovery Program Enhancing the recovery of the surgical patient”
- Ohio State Medical Center, Columbus, Ohio, January 2013
- “Anesthetic Management of Liver Transplantation TGH Style”
- “Fluid Management for the ERAS Program: Goal Directed, Restricted or Guided”
- Department of Transfusion Medicine, University of Toronto, Toronto, Ontario, April 2013
- “Intraoperative Cell Salvage and Other Intraoperative Strategies” Course
- Edwards Lifesciences, Calgary, Alberta, April 2013
- “Perioperative Goal Directed Therapy - Fluid Optimization and Fluid Restriction”
  Distinguished Speaker
- Kidney Transplant Retreat, Toronto, Ontario, May 2013
- “Delayed Graft Function: Perioperative Fluid Management”
- University of Calgary, Department of Anesthesia, June 2013
- “Has ultrasound changed the way we perform brachial plexus blocks?”
  Visiting Professor

McRae, K
- Anesthesia Grand Rounds, Department of Anesthesia, Brigham and Women’s Hospital, Harvard University, Boston, Massachusetts, October 2012
- “Transplantation Update: Extracorporeal lung support and lung reconditioning with Ex-vivo lung perfusion”
- “Intra Operative Management of the Patient with a Failing Right Ventricle Symposium entitled: Mapping the Management of the Right Ventricle in Lung Transplantation”.

Minkovich, L
- Annual Meeting of the American Society of Anesthesiologists, Washington DC, October 2012
  “ASA Basic Fiber-optic Workshop”
- Evidence-Based Perioperative Medicine Meeting, London, United Kingdom, July 2012
  “Ten commandments of fluid management” Presentation to Fresenius Kabi Fluid Advisory Board
- Combined Perioperative Services Rounds, North York General Hospital, North York, Ontario, Canada, September 2012
  “Enhanced Recovery After Surgery”
- Combined Anesthesia Surgery Rounds, Sunnybrook Health
Naser, B
- Pediatric Pain Symposium, Doha, Qatar, November 2012
  “Physiology of Pain”

Ng, E
- Health Education Leadership Program (HELP), Toronto, Ontario, September 2012
  “Simulation in Education”.
- Teaching in Paediatric Settings (TIPS) Training, Toronto, Ontario, November 2012
  “Debriefing and feedback”.
- Simulation Summit, Ottawa, Ontario, Canada. Presenter(s): Everett T, Ng E, Tockchard S et al, November 2012
  “Evaluating performance in pediatric anesthesiology simulation: piloting tools for the Managing Emergencies in Pediatric Anesthesia (MEPA) course.”

Niazi, A
- University of Toronto Introductory Workshop for Ultrasound-Guided Nerve Blocks, Toronto, Ontario, September 2012
  “Upper Limb: above and below Clavicle”
- “Lower Limb: Femoral, Popliteal and Ankle”
- Regional Anesthesia and Pain Medicine Conference, Niagara-on-the-Lake, Ontario, October 2012
  “Ultrasound Guided Blocks Above the Clavicle” (Lecture and Workshop)
- 63rd American Society of Anesthesiologists Annual Meeting, Washington, DC, October 2012
  “Ultrasound Guided Blocks above the Clavicle” (Workshop)
- U of T seminar for PGY2, Toronto Western Hospital, Toronto, November 2012
  “Ultrasound guided blocks above the clavicle”
- University of Toronto Introductory Workshop for Ultrasound-Guided Nerve Blocks, Toronto, Ontario, May-June, 2013
  “Upper Limb: above and below Clavicle”
- “Lower Limb: Femoral, Popliteal and Ankle”

O’Leary, G
- University Health Network, Annual Anesthesia Assistant Professional Development Day, Toronto, Ontario, November 2012

Orser, B
  “Invited Symposium on Neurotoxicity”
- 16th James E. Eckenhoff, M.D. Lecture, Perelman School of Medicine, University of Pennsylvania, PA, September 2012
  “Memory loss and anesthesia”
- Grand Rounds, Department of Anesthesiology, Perioperative and Pain Medicine, Harvard University, Boston, MA, March 2013
  “The cost of hijacking memory blocking receptors”
- Neuroscience Interest Group, Department of Anesthesiology, Perioperative and Pain Medicine, Harvard University, Boston, MA, March 2013
  “Translational Neuroscience: Tranexamic Acid and Seizures”
- Professors Rounds, Department of Anesthesia, University of Toronto, Toronto, Canada, May 2013
  “Memory loss and anesthesia: The good, the bad, the ugly”

Peng, P
- Ultrasound for Pain Medicine-Official Satellite Symposium for World Congress of Pain, Milano, Italy, August 2012
  “Ultrasound-guided injection for pudendal nerve and piriformis muscle”
- Association of University Anesthesiologists, Miami, Florida, April 2013
  “Anesthesia: The Final Frontier” Plenary Address
- 25th Annual C.R. Stephen Lecture, Department of Anesthesiology, Washington University, St. Louis, MO, USA, March 2013
  “Memory loss and anesthesia: The good, the bad, and the ugly”
- 2013 Association of University Anesthesiologists, Miami, Florida, April 2013
  “Anesthesia: The Final Frontier” Plenary Address
- Rockerfeller President Marc Tessier-Lavigne Advisory Panel, Translational Neuroscience: Anesthesia and Critical Care, University of Toronto, Toronto, Canada, April 2013
- Dr. Jean Hugill Memorial Pain Lecture, Neuroscience Program, University of Alberta, Calgary Canada, May 2013
  “Memory loss and anesthesia: The good, the bad, the ugly”
- Dept. of Anesthesia, Clinical Rounds, University of Alberta, May 2013
  “Teaching old receptors new tricks: Extrasynaptic inhibitory receptors as therapeutic targets”
- Shield’s Day Vice-Chair’s Lecture, Toronto, Canada, May 2013
  “Extrasynaptic inhibitory receptors as therapeutic targets”
Niagara-on-the-Lake, Ontario, October 2012
“Ultrasound guided injection for ilioinguinal and genitofemoral nerve” (Workshop)
“Update on opioids”
• Canadian Institutes of Health Research Course, Toronto, Ontario, November 2012
“Non-surgical management of back pain. Acute Spinal Care, Management and Triage”
• Department of Anesthesia, Catholic University, Republic of Seoul, Korea, November 2012
“Ultrasound-guided injection for peri-operative pain management” Visiting Professor
• Korean Pain Society, Republic of Seoul, Korea, November 2012
“Ultrasound-guided injection for Pain Medicine” Keynote Speaker
Ultrasound for Pain Medicine Workshop, Toronto Western Hospital, University Health Network, Toronto, Ontario, November 2012
“Ultrasound-guided injections”
• 3rd Multidisciplinary Musculoskeletal Ultrasound Symposium in Pain Medicine, Hong Kong, China, December 2012
“Ultrasound-guided injection for Pain Medicine”
• Urology and Andrology Rounds, Department of Urology, Mount Sinai Hospital, Toronto, Ontario, January 2013
“Pudendal neuralgia: diagnosis and management”
• 5th SIMPAR Conference, Pavia, Italy, March 2013
“Ultrasound and chronic pain: a new era? Study in Multidisciplinary Pain Research”
• Canadian Pain Interventional Course and Workshop, Hamilton, Ontario, April 2013
“Ultrasound for Pain Intervention”
• Annual Conference of the Canadian Pain Society, Winnipeg, Manitoba, May 2013
“Tai Chi for pain and fibromyalgia”
• Department of Nursing, University Health Network, Toronto, Ontario, June 2013
“Tai Chi and Pain”

**Perlas, A**
• 10th Annual Obstetric Anesthesia Conference & Workshop, Mount Sinai Hospital, Toronto, Ontario, September 2012
“Can we make clinical use of gastric ultrasound assessment of the pregnant woman?”
• University of Toronto - TWH Introductory Ultrasound for Regional Anesthesia Workshop, Toronto, Ontario, September 2012
“Fundamental ultrasound principles and equipment functionality: Brachial plexus blocks above the clavicle” Outcome data review
• American Society of Anesthesiologists Annual Meeting, Washington, DC, October 2012
“Ultrasound guided regional anesthesia. An evidence-based review of the evidence”
“Gastric ultrasound to assess gastric content and volume” (part of the difficult airway workshop)
• 19th Annual Anesthesia Winterlude Symposium, Ottawa, Ontario, February 2013
“Improving patient safety: Ultrasound for regional, vascular, airway and more”
• Latin American Symposium of Regional Anesthesia, Montevideo, Uruguay, April 2013
“Analysis of abnormal histomorphology in Malignant Hyperthermia Susceptible (MHS) Patients, Correlations with Reactivity to Caffeine, and Halothane and RYR1 mutations”

**Riazi, S**
• Regional Anesthesia Course and Workshop, Department of Anesthesia, University of Toronto, Faculty of Medicine, Toronto, Ontario, November 2012
“Ultrasound Guided Nerve Block Ultrasound”
• 16th Annual RPN-OR Conference, Toronto, Ontario, April 2013
“Updates in Malignant Hyperthermia”
• European Malignant Hyperthermia Organization. Basel, Switzerland, May 2013
“Analysis of abnormal histomorphology in Malignant Hyperthermia Susceptible (MHS) Patients, Correlations with Reactivity to Caffeine, and Halothane and RYR1 mutations”

**Ringsted, C**
• Wightman-Berris Academy, University of Toronto, Toronto, Ontario, April 2013
“Research in Health Professions Education”
• 15th Annual Medical Education Day, The Hospital for Sick Children, Toronto, Ontario, March 2013
“The Wilson Centre”

**Roscoe, A**
• 10th Annual Toronto Perioperative Transesophageal Echocardiography Symposium, Toronto, Ontario, November 2012
“RV function”
• South African Society of Anesthesia Meeting, Bloemfontein, South Africa, December 2012
“Cardiogenic shock” Distinguished Speaker
• University of Cape Town, South Africa, December 2012
“Ventricular Assist Devices”
• Dalhousie University, Halifax, Nova Scotia, January 2013
“Updates in Lung Transplantation”
• University of Stellenbosch, Cape Town, South Africa, March 2013
“Transesophageal Echocardiography” Workshop
• University of Cape Town, Cape Town, South Africa, March 2013
“Endobronchial blocker workshop”
“Lung Transplantation”
• South African Society of Anaesthesia Meeting, Port Elizabeth, South Africa, March 2013
“FATE Workshop”
“Anaesthesia and Pulmonary Hypertension”
“Extracorporeal circuits: an update”
• Society of Cardiovascular Anesthesiologists Thoracic Symposium, Miami, Florida, April 2013
  “Lung Transplantation PBLD”

• Canadian Perioperative Anesthesia & Medicine Meeting, Toronto, Ontario, May 2013
  “LVAD patients undergoing noncardiac surgery”

Roy, L
• Pediatric Pearls, Audiodigest USA, Los Angeles, California, United States, December 10, 2012
  “A podcast reviewing pediatric anesthesia airway issues”

• University of Toronto, Toronto, Ontario, January 2013
  “Saturday is not Alright, An examination of after hours anesthetic patient care”

Siddiqui, N
• Regional Anesthesia Day, Department of Anesthesia, University of Toronto, Toronto, Ontario, September 2012
  “Aseptic technique for neuraxial anesthesia” (Session Leader)

• 10th Annual Obstetric Anesthesia Conference & Workshop, Mount Sinai Hospital, Toronto, Ontario, September 2012
  “Postpartum hemorrhage: Event that we see and that we don’t. Are we missing out!”

• Department of Surgery, University of Toronto, Toronto, Ontario, February 2013

• Department of Surgery, University of Toronto, Toronto, Ontario, March 2013
  “I.V Lidocaine infusion – Role in ERAS programs”

  Acute Resuscitation Symposium, University Health Network, Toronto, Ontario, March 2013
  “Focused Echocardiography during resuscitation”

  Workshop 45th Annual Society for Obstetric Anesthesia and Perinatology Meeting, San Jose, Puerto Rico, April 2013
  “Comprehensive ultrasound. Society of Obstetric Anesthesia and Perinatology Ultrasound, Workshop Website”

Silverman, G
• 57th Meeting of Ontario Medical Association, September 2012
  “Anesthesia Missions Abroad”

• Global Health Education Institute graduation, Dalla Lana School of Public Health, University of Toronto, Toronto, Ontario, May 2013
  “Local and Global Health Leadership and Challenge” (Moderator)

Slinger, P
• Congress of Thoracic Anesthesia, China, Beijing, July 2012
  “Anterior Mediastinal Masses and Lower Airway Problems”

  “Anesthesia for Lung Transplantation”

  “Preoperative Assessment for Pulmonary Resection Surgery”

• Madison Society of Anesthesiologists, Madison, Wisconsin, September 2012
  “Intraoperative Management of the Patient with Severe Lung Disease”

• Department of Anesthesiology, University of Wisconsin, Madison, Wisconsin, September 2012
  Visiting Professor

• Department of Anesthesia, Wayne State University, Detroit, Michigan, September 2012
  Visiting Professor

• Society for Airway Management Annual Meeting, Toronto, Ontario, September 2012
  “Double-lumen Tubes or Bronchial Blockers for Lung Isolation Pro-Con”

  “Management of the Patient with and Anterior Mediastinal Mass”

• Annual Meeting of the American Society of Anesthesiologists, Washington, DC, October 2012
  “Double-lumen Tubes for Lung Isolation”

  “Post-pneumonectomy Complications”

• Department of Anesthesia, University Hospital, Basel, Switzerland, October 2012
  Visiting Professor

• Weill Medical College, Cornell University, New York, NY, November 2012
  Visiting Professor

• International Congress of Cardiovascular Anesthesia, Auckland, New Zealand, November 2012
  “Anesthesia for the Patient following Lung Transplantation; Update on Double-lumen Tubes”

• Global Conference on Perioperative Medicine. Houston, December 2012
  “State of the Art: Anesthetic and Ventilatory Strategies in Thoracic Anesthesia”

  “One-Lung Ventilation Workshop”

• Annual meeting of the South African Society of Anesthesia. Port Elizabeth, South Africa, March 2013
  “Intraoperative management of the patient with severe lung disease; Myths of mediastinal masses; Lung protective strategies, are they worth the trouble?”

• Annual Rhode Island Anesthesia Conference, Providence, Rhode Island, March 2013
  “Perioperative management of the patient with severe lung disease”

  “Update on Lung Isolation and One-Lung Ventilation."

• Cancun Anesthesia 2013. Cancun, Mexico, March 2013
  “Perioperative management of the patient with severe lung disease”

  “Lung Isolation techniques and One-Lung Ventilation”

  “Mediastinal masses and lower airway problems”

  “Post-thoracotomy anesthetic management.”

• Annual New York Anesthesiology Review. Orlando, Florida March 2013
  “Respiratory Physiology”

  “Lung Isolation”

  “Management of One-lung Anesthesia”

• Thoracic Anesthesia Symposium, Miami, Florida March 2013
  “Management of Hypoxemia during VATS surgery”

• Society of Cardiovascular Anesthesiologists Annual Meeting, Miami, Florida, April 2013
  “Prevention and Management of Lung Injury in Cardiothoracic Surgical Patients, PBLD”

• Dannemiller Review Course in Anesthesiology, San Antonio, Texas, May 2013
  “Preoperative Assessment for Pulmonary Resection”

  “Lung Isolation”

  “One-lung Ventilation”

  “Mediastinal Masses and Lower Airway Problems”

• Annual meeting of the International Anesthesia Research Society, San Diego, California, May 2013
  “Don’t make things worse with your ventilator settings. How you manage the lungs during the perioperative
“Plenary Session: Managing Transitions in Residency Education: Key messages from the 2011 International Conference on Residency Education” Panelist

All Program Director & FM Site Director’s Meeting, Toronto, Ontario, December 2012

“Duty Hours: The Good, the Bad and the Ugly”

Canadian Conference on Medical Education 2013, Quebec City, Quebec, April 2013

“A Financial Accountability Map For Residency Training Based on RCPSC Accreditation Standards”

“A Key Performance Indicators (KPI) Dashboard for Successful Integration across Multiple Greater Toronto Area Teaching Sites”

“Walking the Talk: A Multi-Source Feedback Initiative for Residency Program Directors”

Steel, A

57th Meeting of Ontario Medical Association, September 2012

“Perioperative ventilation strategy”

Critical Care Canada Forum, Toronto, Ontario, October 2012

“Development of Acute Respiratory Distress Syndrome (ARDS) in the Intensive Care Unit”

Southlake Hospital, Department of Anesthesiology, Newmarket, Ontario, March 2013

“Perioperative shock and resuscitation departmental CPD meeting”

Ontario Anesthesia Assistant Program, Michener Institute for Applied Health Sciences, Toronto, Ontario, April 2013

“Anesthesia beyond the operating department”

Thoracic Anesthesia Symposium, Society of Cardiovascular Anesthesiologists Thoracic Symposium, Miami, Florida, April 2013

“Post-thoracotomy ICU management”

Szabo, E

Critical Care Teaching Rounds, Dept. of Pediatrics, Faculty of Medicine, The Hospital for Sick Children, August 2012

“Pediatric Airway Management in PICU - RSI, Difficult Airway and Induction Techniques in the Critical Ill Child”

Pediatric Anaesthesia Teaching Block, Dept of Anaesthesiology, Faculty of Medicine, The Hospital for Sick Children, September 2012

“Pediatric Fluid and Electrolyte Management, Thermoregulation and Monitoring”

Department of Anesthesia Grand Rounds, Faculty of Medicine, Dept. of Anesthesia, The Hospital for Sick Children, October 2012

“Voltage-gated Na Channel-related cardiomyopathy. Back to basics”

Critical Care Teaching Rounds, Dept of Pediatrics, Faculty of Medicine, The Hospital for Sick Children, November 2012

“Pediatric Airway Management in PICU - RSI, Difficult Airway and Induction Techniques in the Critical Ill Child”

Department of Anesthesia Grand Rounds, Faculty of Medicine, Dept. of Anesthesia, The Hospital for Sick Children, November 2012

“Pediatric Pulmonary Hypertension”

“Developing World Hypertension”

“Overview Congenital Heart Disease for the FRCPC examination”

Acute Care Research Rounds, Toronto, Ontario, Canada, March 2013

“Acute Care Research Rounds Evaluating Precision in Therapy - A RCT of milrinone TDM”

10th COPA - Congress of Anesthesiology of the State of São Paulo, São Paulo, São Paulo, Brazil, April 2013

“Non cardiac surgery for children with congenital heart disease - who to worry about and why?”

Taylor, K

Canadian Pediatric Anesthesia Society (CPAS) Annual Meeting, Mahone Bay, Nova Scotia, Canada, September 2012

“Considerations for the pediatric cardiac patient undergoing noncardiac surgery”

Intensive Care Research Rounds, Toronto, Ontario, Canada, February 2013

“Dispassionate feedback from the audio-recording study”

University of Manitoba, Department of Anesthesia, Winnipeg, Manitoba, Canada March 2013

“Pediatric Pulmonary Hypertension”

“Overview Congenital Heart Disease for the FRCPC examination”

Acute Care Research Rounds, Toronto, Ontario, Canada, March 2013

“Acute Care Research Rounds Evaluating Precision in Therapy - A RCT of milrinone TDM”

10th COPA - Congress of Anesthesiology of the State of São Paulo, São Paulo, São Paulo, Brazil, April 2013

“Non cardiac surgery for children with congenital heart disease - who to worry about and why?”

Spadafora, S

The International Conference on Residency Education, Ottawa, Ontario, October 2012

“A financial accountability map for residency training”

“A process for ‘taking’ the temperature of the PGME Community”

“Measured Steps: How will we measure progress toward the right number, mix and distribution of physicians to meet societal needs, FM-MG Recommendation #1?”

Faculty of Medicine Summit on Educational Technology, Toronto, Ontario, November 2012

“Reflections and Meeting Summation”

Family Medicine Education Forum, Toronto, Ontario, November 2012

“Non cardiac surgery for children with congenital heart disease - who to worry about and why?”

Department of Anesthesia, Queen’s University, September 2012

“Pearls and Pitfalls of OHIP Billing” Visiting Professor

Faculty for 2 day SimONE course, October 2012

“The Frame of Simulation: Briefing and Debriefing”

1st Sunnybrook Educational Expo, October 2012

“Innovations in Education” Panel Speaker

University of Toronto Transfusion Curriculum: Transfusion Authority Gradient, April 2013
“Anaesthesia for paediatric cardiac catheterization”
“Paediatric cardiomyopathy”

Tumber, P
- Family Medicine Preceptorship Program, Wasser Pain Management Centre, Mount Sinai Hospital, Toronto, Ontario, October 2012
“Basics of Interventional Pain Management and Trigger Point Injections: What is the evidence?”
- Graduate Nursing Course in Advanced Pain Management, University of Toronto, School of Nursing, Toronto, Ontario, October 2012
“Pain Management Strategies: Pharmacology”

Van Rensburg, A
- 10th Annual Toronto Perioperative Transesophageal Echocardiography Symposium, Toronto, Ontario, November 2012
“Transesophageal Echocardiography for LVAD implantation”
“FOCUS TTE” Workshop”
- University Health Network, Annual Anesthesia Assistant Professional Development Day, Toronto, Ontario, November 2012
“Anesthesia for Non Cardiopulmonary Surgery after previous heart or lung transplantation”
- 57th Meeting of Ontario Medical Association, September 2012
“Anesthesia For Pheochromocytoma”
“Basic FOB Workshop”
- South African Society of Anaesthesia Meeting, Port Elizabeth, South Africa, March 2013
“Update on ICP Management”

Vegas, A
- Max Super Hospital, Departmental Rounds, New Delhi, India, August 2012
“3D TEE for the Mitral Valve”
- 6th National TEE Workshop, Narayana Hrudayalaya Hospital, Bangalore, India, August 2012
“3D TEE Technical Principles”
- 10th Annual Toronto Perioperative Transesophageal Echocardiography Symposium, Toronto, Ontario, November 2012
“Echocardiography in Non-cardiac Surgery”
Workshop Case Presentations
- International Congress of Cardiothoracic and Vascular Anesthesia (ICCVA) TEE Workshop, Auckland, New Zealand, November 2013
“TEE Conundrums”
- Society of Cardiovascular Anesthesia 35th Annual Meeting, Miami, Florida, USA, April 2013
“TEE for Adult Congenital Heart Disease”

Venkatraghavan, L
- Society of Airway Management Annual Meeting, Toronto, Ontario, September 2012
“Basic fiberoptic bronchoscope (FOB) in adults” (Workshop)
“Role of sphingosine-1-phosphate signalling in human resistance artery function”

Voigtlaender-Bolz, J
- Young Investigators Forum - Institute for Cardiovascular and Respiratory Health, September 2012
“Translating microvascular research from rodents to humans - an infrastructure for the routine functional assessment of human resistance arteries”
- Canadian Hypertension Congress, Toronto, Ontario, Canada, October 2012
“Duration of preoperative beta-blocker therapy and outcomes after non-cardiac surgery”

Wasowicz, M
- Addis Ababa University, Department of Anesthesia Black Lion Hospital, Ethiopia, Adis Abeba, October 2012
“Assessment of cardiac patient coming for non-cardiac surgery”
- “Fiberoptic bronchoscopy - its application in intubation and thoracic anesthesia”
- Thoracic epidural analgesia - what are the benefits for thoracic surgical patients?”
- “Anesthesia and aortic surgery”
- Toronto Anesthesia Symposium, Toronto, Ontario, April 2013
“Supraglottic devices in airway management” (Workshop)
- “Patient with stridor in post anaesthesia care unit” PBL Presenter and facilitator of the discussion
- Karol Marcinkowski Poznan Medical University, Faculty of Medicine and Students’ Scientific Organization, Pozan, Poland, April 2013
“Lung transplantation, State of the Art 2013”
- Japanese Anesthesiologists Society, Sapporo, Japan, May 2013
“Perioperative management of patients undergoing transcatheter aortic valve implantation”

Wijeyseundera, D
- Evaluative Clinical Sciences Rounds, Sunnybrook Health Sciences Centre, Toronto, Ontario, September 2012
“Preoperative cardiac risk stratification - Lessons from clinical and health services research”
- American Heart Association Scientific Sessions, Los Angeles, California, November 2012
“Duration of preoperative beta-blocker therapy and outcomes after non-cardiac surgery”
The METS Cohort Study: “Preoperative cardiac risk stratification – Lessons from clinical and health services research”

- Grand Rounds, Department of Anesthesia, St. Michael’s Hospital, Toronto, Ontario, November 2012
  “Assessment of the perioperative heart - The role for echo and stress training”
- Global Conference on Perioperative Medicine: Care Of The Elderly and the Cancer Patient, M.D. Anderson Cancer Center, Houston, Texas, December 2012
  “Perioperative risk prediction and interventional options: What is new and can we improve outcomes?”
- Surgical Grand Rounds, Department of Surgery, University Health Network, Toronto, Ontario, February 2013
  “Preoperative assessment of the surgical patient: Progress and Opportunities”
- Cardiology Research Rounds, Division of Cardiology, Sunnybrook Health Sciences Centre, April 2013
  “Preoperative cardiac risk stratification: An anesthesiologist’s perspective”
- Grand Rounds, Department of Anesthesia, St. Michael’s Hospital, Toronto, Ontario, April 26, 2013
  “The METS Cohort Study: A multicentre study to improve assessment of preoperative functional capacity”
- Grand Rounds, Department of Anesthesia, Queens University, Kingston, Ontario, May 2013
  “Preoperative cardiac risk stratification – Lessons from clinical and health services research”
- Grand Rounds, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts, May 2013
  “Helpful research or simply data mining? Using observational data research to help advance perioperative medicine”
- Collaborative Clinical Trials in Anesthesia, Monash University, Prato, Italy, June 2013
  “METS and Canadian multicentre trials”

Wong, D

- 63rd American Society of Anesthesiologists Annual Meeting, Washington, DC, October 2012
  “Basic Adult Flexible Fiberoptic Intubation Workshop”
- Bariatric Program, Toronto Western Hospital, University Health Network, October 2012
  “Perioperative cardiac/pulmonary risk assessment and reduction”
- Society for Ambulatory Anesthesia, Webinar, Chicago, Illinois, October 2012
  “So many supraglottic airways: which one(s) should I use?”

Zhang, H

- European Congress of Immunology, Glasgow, United Kingdom, September 2012
  “LPS internalization is mediated by Syk in lung epithelial cell”
- Annual Meeting of the Society of Emergency and Critical Care Medicine, International Convention Center in National Taiwan University Hospital, Taipei, Taiwan, Province Of China, October 2012
  “New frontiers in sepsis”
- Editorial Board Meeting of Guangdong Society of Bariatric Program, Toronto, Ontario, November 2012
  “Challenging airways in the recovery room and ER”
- Networking World Anesthesia Annual Meeting of the Global Conference on Perioperative Medicine, Assisi, Italy, December 2012
  “Experimental and original studies”
- International Symposium on Critical Care Medicine, Guangzhou Medical University, Guangzhou, China, January 2013
  “New advances in sepsis research”
- International Shock-Sepsis Summit Forum, Guangzhou, Guangdong, China, March 2013
  “Novel therapeutic target in endotoxic shock”
- Guangdong Society of Intensive Care Medicine, Fushan, Guangdong, China, March 2013
  “What have we learnt from sepsis trial?”
- American Association of Immunologists Annual Meeting, Honolulu, Hawaii, May 2013
  “Human neutrophil peptides induce inflammatory atherosclerotic events”
- Department of Critical Care Medicine, Southeast University Zhongda Hospital, Nanjing, China, July 2012
  “Bacteria and cytokine interaction in sepsis”
**Research Funding**

### Peer-Reviewed Grants

<table>
<thead>
<tr>
<th>Author</th>
<th>Title</th>
<th>Date</th>
<th>Funding Body</th>
<th>Amount</th>
<th>Principal Investigator(s)</th>
<th>Co-Investigator(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Arzola, C</strong></td>
<td>2013-2015</td>
<td>Ontario AHSC AFP Innovation Fund</td>
<td>Ultrasound Assessment of the Gastric Content and Volume in Pregnant Population</td>
<td>$99,600</td>
<td>C Arzola</td>
<td>A Perlas, JCA Carvalho</td>
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<tr>
<td><strong>Balki, M</strong></td>
<td>2011-2013</td>
<td>Mount Sinai Hospital Foundation</td>
<td>Optimizing human myometrial contractions using a combination of uterotonic agents</td>
<td>$40,000</td>
<td>M Balki</td>
<td>N/A</td>
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<tr>
<td><strong>Balki, M</strong></td>
<td>2011-2013</td>
<td>University of Toronto Merit Awards, Department of Anesthesia</td>
<td>Optimizing human myometrial contractions using a combination of uterotonic agents</td>
<td>$80,000</td>
<td>M Balki</td>
<td>N/A</td>
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<tr>
<td><strong>Balki, M</strong></td>
<td>2011-2013</td>
<td>Inaugural SOAP/Gertie Marx Research &amp; Education Grant</td>
<td>Optimizing contractility in human myometrium using a combination of uterotonic agents: An in-vitro approach to improving treatment options for primary post-partum hemorrhage</td>
<td>$50,000</td>
<td>M Balki</td>
<td>N/A</td>
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<tr>
<td><strong>Balki, M</strong></td>
<td>2013-2015</td>
<td>AHSC AFP Innovation Fund</td>
<td>High-fidelity Simulation to Assess Interprofessional Teamwork in Obstetric Crisis Management</td>
<td>$124,437</td>
<td>M Balki</td>
<td>ME Cooke, R Windrim</td>
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<tr>
<td><strong>Baker, A</strong></td>
<td>2009-2016</td>
<td>Canadian Institutes of Health Research (CIHR)</td>
<td>From bench to bedside to curbside</td>
<td>$1,057,000</td>
<td>L Morrison</td>
<td>D Redelmeier, R MacDonald, S Cheskes, P Sheldon, P Dorian, A Slutsky, AJ Baker, J Spence, N Avery, R Verbeek, D Scales, S Rizoli</td>
</tr>
<tr>
<td><strong>Baker, A</strong></td>
<td>2010-2016</td>
<td>National Institutes of Health (NIH) (USA)</td>
<td>From bench to bedside to curbside</td>
<td>$648,000</td>
<td>L Morrison</td>
<td>D Redelmeier, R MacDonald, S Cheskes, P Sheldon, P Dorian, A Slutsky, AJ Baker, J Spence, N Avery, R Verbeek, D Scales, S Rizoli</td>
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<tr>
<td><strong>Beattie, WS</strong></td>
<td>2008-2013</td>
<td>Heart and Stroke Foundation of Canada (HSF), Australian Medical Association</td>
<td>Nitrous Oxide Anaesthesia and Cardiac Morbidity after Major Surgery: A Randomized Controlled Trial (ENIGMA II)</td>
<td>$2,300,000</td>
<td>P Myles</td>
<td>WS Beattie</td>
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<tr>
<td><strong>Brull, R</strong></td>
<td>2011-2014</td>
<td>Physicians Services Incorporated (PSI) Foundation</td>
<td>Can ultrasound detect diabetic peripheral neuropathy?</td>
<td>$19,000</td>
<td>R Brull, VWS Chan</td>
<td>S Riazi, B Bril, JT Lau</td>
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</tbody>
</table>

**Total Amount:**
- **Arzola, C:** $99,600
- **Balki, M:** $124,437
- **Baker, A:** $2,605,000
- **Beattie, WS:** $2,300,000
- **Brull, R:** $19,000

**Principal Investigator:**
- Arzola, C
- Balki, M
- Baker, A
- Beattie, WS
- Brull, R

**Co-Investigator(s):**
- A Perlas, JCA Carvalho
- N/A
- N/A
- ME Cooke, R Windrim
- R Brull, VWS Chan
- S Riazi, B Bril, JT Lau

**Note:**
- The amounts listed are total amounts over the specified periods.
- The grants include various types of funding, such as innovation, research, and educational grants.
- The projects focus on various aspects of obstetric crisis, myometrial contractions, and medical research.

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*Department of Anesthesia, University of Toronto, 2012 - 2013*
2012-2014
Physicians’ Services Incorporated (PSI) Foundation
Title: OPRA (Optimizing pain and rehabilitation after knee arthroplasty)
Amount: $141,500
Principal Investigator: CJ McCartney

Choi, S
2012
Physicians’ Services Incorporated Resident Research Grant
Title: Optimizing Pain and Rehabilitation after Knee Arthroplasty (OPRA)
Amount: $20,000
Supervisor and Co-Principal Investigator: S Choi
Co-Principal Investigator: CJ McCartney
Collaborator: R Holtby

Chung, F
2012-2014
Health and Health Services Research Fund, Hong Kong
Title: Postoperative Vascular Events in Unrecognized Obstructive Sleep Apnea
Amount: HK $980,356
Principal Investigator: M Chan
Co-Investigator: F Chung

2012-2014
Singapore Innovation Grant
Title: Use of Profox and Pulsox
Amount: $99,100
Principal Investigator: E Seet
Co-Investigator: F Chung

2013-2015
Integrating Challenge Grants, Department of Medicine, University of Toronto
Title: Sleep and Sedation – Translational Science to Public Health
Amount: $250,000
Principal Investigator: R Horner
Co-Investigator: F Chung

2012-2014
University of Guelph-Humber Research Fund
Title: Prehabilitation for Prostate Cancer Surgery
Amount: $21,239
Principal Investigator: D Santa Mina
Co-Investigator: H Clarke

2013-2015
Ontario AHSC AFP Innovation Fund
Title: Multicentre Evaluation of a Novel Technique of Analgesia Following Open Liver Resection: Midline Open Traversus Abdominis Plane (MOTAP) Catheters
Amount: $126,949
Principal Investigator: H Clarke
Co-Investigators: P Karanikolas, A Wei, S McCluskey, R Ko, S Cleary, P McHardy, J Katz, S Ladak, J Sawyer, C Law, A Kiss

Crawford, M
2012-2013
Canadian Anesthesiologists’ Society Research Award
Title: Discovering Pathologic Anesthetic Effects in Autistic Children: The Role of Anesthesia-Induced Mitochondrial Dysfunction
Amount: $30,000
Co-Principal Investigators: M Crawford, JT Maynes
Co-Investigators: N/A

Cuthbertson, BH
2011-2012
Australian and New Zealand Intensive Care Foundation
Title: SuDDICU Study of Selective Decontamination of the Digestive Tract in ICU
Amount: $40,000
Principle Investigator: I Seppelt
International Co-Investigator: BH Cuthbertson

2012-2016
Canadian Institutes of Health Research
Title: The METS (Measurement of Exercise Tolerance before Surgery) Study: An International Multicentre Prospective Cohort Study of Cardiopulmonary Exercise Testing For Improving Preoperative Risk Stratification for Major Non-Cardiac Surgery. Operating Grant.
Amount: $987,066
Co-Principal Investigators: BH Cuthbertson, DN Wijeysundera

Djaiani, G
2011-2013
Ontario AHSC AFP Innovation Fund
Title: Reducing Delirium After TAVI Procedures: The Role of Regional Anesthesia
Amount: $172,072
Principal Investigator: G Djaiani
Co-Investigators: R Katznelson, E Horlyck, C Feindel, M Meineri, R Styra

2013-2015
Ontario AHSC AFP Innovation Fund
Title: Inhalational anesthesia and precipitation of dementia: is there a link?
Amount: $192,066
Principal Investigator: G Djaiani
Co-Investigator: R Katznelson, R Styra, D Mazer, D Cheng, F Chung

Everett, TC
2012-2013
The Ottawa Hospital Academic Medical Organization (TOHAMO)
Title: Does instruction on cognitive aids use improve...
2012-2013
Academy for Innovation in Medical Education (AIME)
Title: Does Instruction on Cognitive Aid Use Improve Performance and Retention of Skills? A Simulation Based Randomized Controlled Trial
Total Amount: $19,100
Principal Investigator: MD Bould, TC Everett, S Boet

2012-2013
Academic Health Science Centres, AFP Innovation Fund
Title: Characterizing the Debriefer: a mixed methods study of debriefing in simulation
Total Amount: $36,857
Principal Investigator: TC Everett
Co-Investigators: MD Bould, M Gale, TC Everett, S Boet

2012-2013
Academy for Innovation in Medical Education (AIME)
Title: Does an early booster session improve performance and retention of skills in neonatal resuscitation compared to a later booster? A simulation based randomized controlled trial
Total Amount: $19,957
Principal Investigator: P Nambyiah
Co-Investigators: MD Bould, G Moore, TC Everett, K Abdulla, S Boet

2013-2014
The Ottawa Hospital Academic Medical Organization (TOHAMO)
Title: Does an early booster session improve performance and retention of skills in neonatal resuscitation compared to a later booster? A simulation based randomized controlled trial
Total Amount: $57,797
Principal Investigator: P Nambyiah
Co-Investigators: G Moore, TC Everett, K Abdulla, D Bould, S Boet

2012-2013
Academy for Innovation in Medical Education (AIME), University of Ottawa
Title: Characterizing the Debriefer: a mixed methods study of debriefing in simulation
Total Amount: $19,500
Principal Investigator: TC Everett
Co-Investigators: MD Bould, R MacKinnon, A Cheng, W Eppich

2012-2013
Canada’s Academic Health Sciences Centres (AHSC)
Title: Does instruction on cognitive aids use improve performance and retention of skills?: a simulation based randomized controlled trial
Total Amount: $16,350
Principal Investigator: D Power
Co-Investigators: MD Bould, M Gale, TC Everett, S Boet

2013-2014
Academy for Innovation in Medical Education (AIME)
Title: Does an early booster session improve performance and retention of skills in neonatal resuscitation compared to a later booster? A simulation based randomized controlled trial
Total Amount: $19,957
Principal Investigator: P Nambyiah
Co-Investigators: MD Bould, G Moore, TC Everett, K Abdulla, S Boet

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Total Amount: $57,797
Principal Investigator: P Nambyiah
Co-Investigators: G Moore, TC Everett, K Abdulla, D Bould, S Boet
Principal Investigator: J Hanlon
Collaborators: N Lo, H Clarke, G Hare

Hare G
2010-2012
Physicians Services Incorporated Foundation (PSI).
Title: 81-Adrenergic antagonists impair murine and human resistance artery function.
Total Amount: $160,000
Principal Investigator: G Hare
Co-Investigators: S Bolz, J Bolz

2010-2012
Forest Research Institute Inc.
Title: Nebivolol maintains tissue oxygen delivery during acute hemodilution.
Total Amount: $108,000
Principal Investigator: J Katz
Collaborators: MG Page, J Stinson, F Campbell, L Isaac

Isaac L
2010-2015
Canadian Institutes of Health Research (CIHR), CIHR 2010
Title: The Transition from Acute Postsurgical Pain to Chronic Pain: The Role of Pain Anxiety and Parental Influences in Paediatric Pain.
Total Amount: $60,000
Principal Investigator: J Katz
Collaborators: MG Page, J Stinson, F Campbell, L Isaac

Jadad AR
2008-2013
Canadian Institutes of Health Research (CIHR)
Title: Centre in HIV Prevention Social Research.
Amount: $2,486,100

2009-2014
Inclusive Design Institute.
Title: Canada Foundation for Innovation.
Amount: $8,070,236

Principal Investigator: J Treviranus
Co-Investigators: AR Jadad, S Diamond, D Fells

2009-2015
Canadian Institutes of Health Research (CIHR)
Title: CIHR Strategic Training Program on the Health Applications of Cell Signalling in Mucosal Inflammation & Pain (renewal).
Amount: $1,950,000
Principal Investigator: RP Ellen, C McCulloch, AR Jadad

2009-2015
Canadian Institutes of Health Research (CIHR)
Title: CIHR Strategic Training Program in the Social Aetiology of Mental Illness.
Amount: $1,783,890
Principal Investigator: K McKenzie
Co-Investigators: N Samuel, AR Jadad, MA Barwick

2009-2015
Canadian Institutes of Health Research (CIHR)
Title: CIHR Strategic Training Program on Health Care, Technology and Place (renewal).
Amount: $1,950,000
Principal Investigator: K McKenzie
Co-Investigators: PC Coyte, G Andrews, R Upshur, RM Baekker, A Bayoumi, K Boydell, AR Jadad

2011-2013
Federal Economic Development Agency for Southern Ontario
Title: Connected Wellness Platform
Amount: $15,549,290
Principal Investigator: H Skinner
Collaborator: AR Jadad

2012-2013
Canadian Institutes of Health Research (CIHR)
Title: Engaging the 21st Century. Moccasin Telegraph: Using cyberspace to CAAN’s advantage.
Amount: $33,000
Principal Investigator: R Masching
Co-Investigators: AR Jadad, L Calzavara, JP Egan, M Thomas, M Peteherson

2012-2013
Ontario Trillium Foundation
Title: navCare: Navigating, negotiating and mediating care and support through health care, legal and social service systems.
Amount: $3,300
Principal Investigator: P Dill

Collaborators: AR Jadad, Alliance Hospice, ALS Society, Dehaeko Support Network, Caregiver Omnimedia Inc, M Chaban, Hospice Toronto, Metropolitan United Church, Parkinson’s Society of Central and Northern Ontario, Patients Association of Canada, PSD Consultants, Sykes Assistance Services Inc, WORDS

2012-2014
Green Shield Canada
Title: Health eConcierge.
Amount: $450,000
Principal Investigator: AR Jadad
Co-Investigators: J Bender, A Cortinois

2013-2016
Canadian Institutes of Health Research (CIHR)
Title: Partnerships for Health System Improvement: 2012-2013 Assessing the impact of healthcare facility design on health outcomes: Implications for strategic investments in design.
Amount: $252,009
Principal Investigator: C Alvaro
Collaborators: C Alvaro, H Clifford, C Atkinson, P Gardner, AR Jadad, R Lyons, S Wilkinson

2013-2018
Canadian Institutes of Health Research (CIHR)
Title: Transforming Primary Health Care in Remote Northern Communities – the Circumpolar Health Systems Innovation Team led by Professor Rue Young.
Amount: $2,455,60
Principal Investigator: K Young
Collaborators: K Young, AR Jadad, A Brown, S Chatwood, A Cortinois

Jerath A
2013-2015
Heart and Stroke Foundation (HSF) of Canada
Title: Plasma concentrations and pharmacokinetics in patients with renal impairment undergoing cardiopulmonary bypass surgery.
Amount: $90,658

Department of Anesthesia, University of Toronto, 2012 - 2013
Principal Investigator: A Jerath
Co-investigators: M Wasowicz, N Ferguson, A Steel, D Mazer, V Rao

2013-2016
The Australian National Health and Medical Research Council
Title: Restrictive versus liberal fluid therapy in major abdominal surgery.
Amount: $21,000 AUD
Principal Investigator: P Myles
Co-investigators: A Jerath, M Wasowicz, D Wijeysundera, V Chan, A Perlas, J Granton, D Urbach

Katz J
2009-2014
Physicians Services Incorporated (PSI) Foundation
Title: Fractures and chronic pain after spinal cord injury: Impact on costs of care and quality of life.
Amount: $162,000
Principal Investigator: BC Craven

2010-2015
Canadian Institutes of Health Research (CIHR)
Title: The Transition from Acute Postoperative Pain to Chronic Pain: The Role of Pain Anxiety and Parental Influences in Paediatric Pain.
Amount: $306,530
Principal Investigator: J Katz
Co-applicants: F Campbell, L Isaacs, AL Martin, G Pagé, J Stinson

2011-2014
Workplace Safety and Insurance Board of Ontario
Title: Pre-existing patient factors associated with sensorimotor recovery, chronic pain, and brain plasticity following surgical repair of peripheral nerve injuries.
Amount: $348,273
Principal Investigator: K Davis
Co-investigators: D Anastakis, J Katz

2012-2013
Canadian Anesthesiologists' Society - Abbott Laboratories New Investigator Award in Anesthesia
Title: Optimizing Pain and Rehabilitation after Knee Arthroplasty (OPRA).
Amount: $20,000
Principal Investigator: S Choi
Co-investigators: J Katz, M Mamdani, J Paul, K Thorpe, CJL McCartney

2012-2013
Canadian Institutes of Health Research (CIHR)
Title: Evaluating the efficacy of an Attention Modification Program for chronic musculoskeletal pain patients with fibromyalgia.
Amount: $467,500
Principal Investigator: N Carleton
Co-applicants: G Asmundson, J Katz

Kavanagh BP
2008-2013
Canadian Institutes of Health Research (CIHR)
Title: Therapeutic Potential of Heparin Analogues (Operating Grant)
Amount: $620,000
Principal Investigator: BP Kavanagh
Nominal Principal Investigator: M Post

2008-2013
Canadian Institutes of Health Research (CIHR)
Title: Ventilator-Induced Lung Injury: Linking gene activation, physiology and outcome (Operating Grant)
Amount: $643,000
Principal Investigator: BP Kavanagh
Co-applicant: M Post

2009-2014
Canadian Institutes of Health Research (CIHR)
Title: Preclinical Assessment of Therapeutic Hypercapnia (Operating Grant)
Amount: $563,000
Principal Investigator: BP Kavanagh
Co-applicant: N/A

Laffey J
2008-2013
European Research Council (ERC)
Title: Hypercapnic Acidosis and NF-kB in Ventilator Induced Lung Injury: Developing strategies to minimize lung injury and facilitate repair.
Amount: 1,050,000 EUR
Principal Investigator: J Laffey
Co-investigator: D O'Toole

2008-2013
Health Research Board (HRB) (Ireland), Clinical Research Facility Award
Title: Establishment of a clinical research facility at the National University of Ireland, Galway.
Amount: 20,000,000 EUR
Co-principal investigators: F Giles, T O'Brien, F Dunne, S Dinneen, L Egan, J Morrison, M Kerin, C McDonald, G Loftus, A Murphy

2010-2013
Health Research Board (HRB) (Ireland), Project Grant
Title: Hydroxymethylglutaryl-CoA reductase inhibition with simvastatin in Acute lung injury to Reduce Pulmonary dysfunction (HARP-2).
Amount: 270,000 EUR
Principal Investigator: J Laffey
Collaborators: D. McAuley, A Nichol

2010-2013
Medical Research Council (UK), EME Grant
Title: Hydroxymethylglutaryl-CoA reductase inhibition with simvastatin in Acute lung injury to Reduce Pulmonary dysfunction (HARP).
Amount: 1,000,000 GBP
Principal Investigator: D McAuley
Co-investigator: J Laffey

2012-2015
Health Research Board, Ireland
Title: Investigation of therapeutic potential of Mesenchymal Stem Cells to aid repair following Acute Lung Injury.
Amount: 300,000 EUR
Principal Applicant: J Laffey
Co-investigators: T O'Brien, F Barry

Maynes, J
2012-2014
Canadian Cancer Society Research Institute (CCSRI)
Title: Predicting and preventing anthracycline cardiotoxicity using patient-specific cardiomyocytes, Innovation Grants.
Amount: 200,000
Principal Investigator: J Maynes
Co-Investigator: N/A

Mazer, CD
2011-2013
Canadian Institutes of Health Research
Title: Steroids in Cardiac Surgery (SIRS) Trial
Amount: $126,250
Principal Investigator: R Whitlock
Principal Site Investigator: CD Mazer
Co-investigator: J Dickson

2011-2014
Canadian Institutes of Health Research
Title: Transfusion requirements in cardiac surgery (TRICS II).
Amount: $444,165
Co-principal investigators: CD Mazer, N Shehata
Co-Investigator: N/A

2012-2016
Canadian Institutes of Health Research
Title: The METS (Measurement of Exercise Tolerance before Surgery) Study: An International Multicentre Prospectve Cohort Study of Cardiopulmonary Exercise Testing For Improving Preoperative Risk Stratification for Major Non-Cardiac Surgery.
Amount: $987,066
Co-principal investigators: BH
analgesia for TKA?
Amount: $40,000 per year for 2 years
Principal Investigator: C McCartney
Co-Investigator: NA

2011-2012
Sunnybrook Medical Services AFP
2010-2011 Innovation Fund
Title: Identifying and removing barriers to the use of regional anesthesia for total hip arthroplasty in Ontario
Amount: $60,270
Principal Investigator: C McCartney
Co-Investigators: F Webster, H Kreder, J Watt-Watson, R Jenkinson, M Zwarenstein, D Kennedy, A Kiss.

2011-2012
European Society of Regional Anesthesia Grant
Title: Improving success rate of continuous peripheral nerve blocks using a novel coiled catheter
Amount: 10,000 EUR
Principal Investigator: C McCartney
Co-Investigator: C Luyet

2011-2014
Sunnybrook Musculoskeletal Research Group Salary Award
Amount: $20,000 per annum for 3 years
Principal Investigator: C McCartney
Co-Investigator: NA

2011-2012
Canadian Anesthesia Research Foundation (TORONTO, ON)
Title: Intraoperative fluid therapy for deceased donor renal transplantation: A modifiable risk factor for delayed graft function.
Amount: $30,000
Principal Investigator: S McCluskey
Co-Investigator: N/A

2013-2015
Council of Academic Hospitals of Ontario (CAHO)
Title: Enhanced Recovery After Surgery: Colorectal Surgery.
Amount: $1,300,000.
Principal Investigator: R McLeod
Site Principal Investigator: McCluskey S
Co-Investigators: A Okrainec, MA Aarts, N Siddiqui, CL Gotlib, M McKenzie

2011-2013
Ontario AHSC AFP Innovation Fund
Title: Virtual TTE: An interactive online teaching aid for learning transthoracic echocardiography.
Amount: $194,000
Principal Investigator: M Meineri
Co-Investigators: A Vegas, C Silversides, G Tait

2013-2014
SIM-one Simulation Research and Innovation Grant
Title: Simulation Team Training and Critical Event Checklist use for optimizing the management of critical perioperative events in an ambulatory surgical facility.
Amount: $24,940
Principal Investigator: Pam Morgan

2013 Apr-2014 Mar
MOH LTC Innovation Fund, Alternate Funding Plan
Title: Simulation Team Training and Critical Event Checklist use for optimizing the management of critical perioperative events in an ambulatory surgical facility.
Amount: $49,806.68
Principal Investigator: M Morgan

2012-2013
Ontario AHSC AFP Innovation Fund
Title: Using Situational Awareness Global Assessment Technique (SAGAT) for Interdisciplinary Obstetrical Team Training using High-Fidelity Simulation.
Amount: $4,950
Principal Investigator: M Morgan

2011-2013
University of Toronto, Continuing Education and Research Development Award
Title: To teach ultrasound guided regional anesthesia to anesthesiologists in an ambulatory surgical facility.
Amount: $4,900
Principal Investigator: M Morgan

2013 Jan-2014 Jun
Canadian Medical Protective Association (CMPA)
Title: Simulation Team Training and Critical Event Checklist use for optimizing the management of critical perioperative events in an ambulatory surgical facility.
Amount: $80,940
Principal Investigator: A Niazi
Collaborators: WVS Chan, A Okrainec

Department of Anesthesia, University of Toronto, 2012 - 2013
Title: Do viscoelastic assays of whole blood coagulation improve the management of coagulopathy in adults with major trauma compared with routine coagulation screening: A meta-analysis.

Total Amount: $2,000 EUR

Co-Principal Investigator: J O’Leary

Collaborators: NA McAuliffe, MW Crawford, GD Shorten

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Amount: $500,000

Principal Investigator: B Orser

Co-Investigator: N/A

2008-2013

CIHR

Title: Tonic GABAergic regulation of memory and plasticity

Amount: $826,305

Principal Investigator: B Orser

Co-Investigator: N/A

Title: Observational Study of Cerebral Tissue Oxygen Saturation During Blood Transfusion in Severe Traumatic Brain Injured Patients.

Total Amount: $90,000

Principal Investigator: V McCredie

Co-Investigator: AL Manoel, S Piva, A Rigamonti, GT Hare, AJ Baker

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Title: Preventing memory loss after anesthesia by inhibiting alpha 5 GABAA receptors

Amount: $819,055

Principal Investigator: B Orser

Co-Investigators: N/A

2013-2016

Department of Medicine, Integrating Challenge Grant

Title: Sleep and Sedation-Translational Science to Public Health.

Amount: $450,000 for two years

Principal Investigator: R Horner

Co-Investigators: TD Bradley, F Chung, D Juurlink, M Mamdani, S Mukherjee, I Narang, B Orser, R Stremler

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Amount: $2,000,000

Principal Investigator: R Horner

Co-Investigator: B Orser

2011-2016

CIHR

Trans-Disciplinary team

Title: Research and Training Program in Sleep and Biological Rhythms

Amount: $2,000,000

Principal Investigator: R Horner

Co-Investigator: B Orser

2011-2016

CIHR

Title: The role of GABA-A receptors in postoperative memory deficits.

Amount: $860,535

Principal Investigator: B Orser

Co-Investigator: N/A

2009-2014

Canada Research Chair in Anesthesia,Tier 2, Renewal

Title: Anesthetic Drugs: From Molecular Mechanisms to Patient Safety

Foundation (PSI)

Title: Effects of simulation-based ultrasound training on patient outcomes, acquisition of skills, and clinical effectiveness.

Amount: $475,000 DKK

Principal Investigator: Tolsgaard MG

Collaborators: JL Sørensen, B Ottesen, A Tabor, C Ringsted

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Riazi, S

2012-2013

Canadian Anesthesiologists’ Society Research Award

Title: Calsequestrin-1, a candidate gene for the diagnosis of malignant hyperthermia, a study of molecular genetics of malignant hyperthermia.

Amount: $22,000

Principal Investigator: S Riazi

Collaborators: WS Beattie, D MacLennan

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Rigamonti, A

2012-Present

Canadian Anesthesiologists’ Society

Title: Perioperative low-dose pregabalin for acute and chronic post-craniotomy pain: A two-centre randomized controlled trial.

Total Amount: $30,000

Principal Investigator: A Rigamonti

Co-Investigator: MD Cusimano, R Loch MacDonald, JG Hanlon, P Peng, L Venkatrathan

Title: Perioperative low-dose pregabalin for acute and chronic post-craniotomy pain: A two-centre randomized controlled trial.

Total Amount: $30,000

Principal Investigator: A Rigamonti

Co-Investigator: MD Cusimano, R Loch MacDonald, JG Hanlon, P Peng, L Venkatrathan

2012-Present

Physicians Services Incorporated

Foundation (PSI)

Title: Observational Study of Cerebral Tissue Oxygen Saturation During Blood Transfusion in Severe Traumatic Brain Injured Patients.

Total Amount: $90,000

Principal Investigator: V McCredie

Co-Investigator: AL Manoel, S Piva, A Rigamonti, GT Hare, AJ Baker

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Taylor, K

2010-2012

Heart and Stroke Foundation,

Title: Mechanical Assist for the Lungs as a Means of Achieving Primary in-series Palliation for Single Ventricle Neonates.

Total Amount: $38,055

Principal Investigator: G van Arsdell

Co-Investigator: K Taylor

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Voigtländer-Bolz, J

2011-2013

St. Michael’s Hospital, Keenan Research Institute (KRI)

Title: Measurement of cerebrovascular reactivity using BOLD-MRI combined with precise controlled changes in carbon dioxide. Is this new brain stress test?

Amount: $181,001

Principal Investigator: L Venkatrathan

Collaborators: D Mikulis, J Fisher, M Tymsianski

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Well, GD

2008-2013

Institute for Health

Title: Research (CIHR). High Impact Strategies Towards
<table>
<thead>
<tr>
<th>Project Title</th>
<th>Grant Amount</th>
<th>Principal Investigator(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overweight Reduction in Youth (HISTORY). Emerging Team Grant</td>
<td>$2,500,000</td>
<td>J Hamilton, GD Wells</td>
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<tr>
<td>2010-2013 Canadian Institutes of Health Research, Circulatory and Respiratory Health.</td>
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<td>Title: The biology of chronic preconditioning: genomic and physiologic mechanisms of response.</td>
<td>$109,691</td>
<td>AN Redington, GD Wells</td>
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<td>2011-2013 Canadian Gene Cure Foundation.</td>
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<td>Title: Study to investigate the efficacy of L-arginine therapy on endothelium-dependent vasodilation and mitochondrial metabolism in herpetic patients with MELAS syndrome.</td>
<td>$109,691</td>
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<td>$190,397</td>
<td>D Wijeysundera, E You-Ten, S Beattie, N Paul</td>
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<td>2013-2016 Western Canada Children's Foundation.</td>
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<td>$225,000</td>
<td>H Zhang, N Paul</td>
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<td>2012-2016 Canadian Institutes of Health Research (CIHR)</td>
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<tr>
<td>Title: PeriOperative ISchemic Evaluation-2 (POISE-2) Trial.</td>
<td>$3,684,006</td>
<td>P Devereaux, D Wijeysundera, E You-Ten, S Beattie, N Paul</td>
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<tr>
<td>You-Ten, E</td>
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<td>2011-2013 The Doctors Company Foundation Ann S. Lofsky MD Research Award</td>
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<td>Title: A Prospective Observational Study to Determine the Prognostic Value of Noninvasive Computed Tomography Coronary Angiogram for Cardiac Risk Stratification in Noncardiac Surgery- Role of the 320-Row Multidetector Computer Tomography.</td>
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## Non-Peer Reviewed Grants

| Principal Investigator | Co-Investigators | Amount | Collaborator | Title | Total Amount | Principal Investigator | Co-Investigators | Amount | Collaborator | Title | Total Amount | Principal Investigator | Co-Investigators | Amount | Collaborator | Title | Total Amount | Principal Investigator | Co-Investigators | Amount | Collaborator | Title | Total Amount |
|------------------------|------------------|--------|--------------|-------|--------------|------------------------|-------------------|--------|--------------|-------|--------------|------------------------|-------------------|--------|--------------|-------|--------------|------------------------|-------------------|--------|--------------|-------|--------------|------------------------|-------------------|--------|--------------|-------|--------------|
| J. Hanlon              |                   | $6,000 |             |       |              |                        |                   |        |              |       |              |                        |                   |        |              |       |              |                        |                   |        |              |       |              |
| J. Gardner-Nix         |                   | $9,500 |             |       |              |                        |                   |        |              |       |              |                        |                   |        |              |       |              |                        |                   |        |              |       |              |
| J. Jadad               |                   | $12,000|             |       |              |                        |                   |        |              |       |              |                        |                   |        |              |       |              |                        |                   |        |              |       |              |
| J. Katz               |                   | $150,000|             |       |              |                        |                   |        |              |       |              |                        |                   |        |              |       |              |                        |                   |        |              |       |              |
| J. Kim                |                   | $1,500,000|             |       |              |                        |                   |        |              |       |              |                        |                   |        |              |       |              |                        |                   |        |              |       |              |
Principal Investigator: D Mazer
Collaborators: M Peterson, K Pavenski, H Kim

2013-2014
AloCure Inc
Title: A Randomized, Multicenter, Double-blind, Placebo-controlled Study of AC607 for the Treatment of Acute Kidney Injury in Cardiac Surgery Subjects
Principal Investigator: D Mazer
Collaborators: V Verma, R Wald, H Kim

Laussén, P
2013-2014
Boston Children’s Hospital – Provider-Payer Quality Initiative (PPQI)
Title: Tracking, Trajectory & Trigger tool (T3)
Amount: $1,475,000
Principal Investigator: P Laussén
Co-Investigators: N/A

2012-2014
NIH-SBIR 1R43HL117340-01
Title: Risk Assessment Using Non-Invasive Measurements in Post-Operative Pediatric Patients
Amount: $498,191
Principal Investigator: P Laussén
(on behalf of Boston Children’s Hospital)
Co Sponsor: Sterling Point Research LLC

Maynes, J
2011-2016
University of Toronto
Title: Mechanisms of Anaesthesia Toxicity
Total Amount: $250,000
Principal Investigator: J Maynes
Co-Investigators: N/A

2012-2013
University of Toronto
Title: High-throughput Screening using Pediatric Disease Targets
Total Amount: $10,000
Co-Principal Investigator: J Coles, J Maynes

2012-2013
The Rare Disease Foundation
Title: Cellular Toxicity of Anesthetics in Children with Mitochondrial Disease
Total Amount: $3,500
Co-Principal Investigator: Y Finkelstein

2012-2013
The Rare Disease Foundation
Title: Treatment of Congenital Central Hypoventilation Syndrome by Recovering Phox2b Function.
Amount: $3,500
Principal Investigator: J Maynes
Co-Investigators: N/A

2012-2013
Hospital for Sick Children, Merit Awards
Title: Anaesthetic Effects on Cellular Metabolism
Total Amount: $40,000
Principal Investigator: J Maynes
Co-Investigators: J Coles

2012-2014
Garren Foundation
Title: Repurposing of FDA-Approved Drugs to Prevent Cardiotoxicity in Cancer Chemotherapy
Total Amount: $48,800
Principal Investigator: J Maynes
Co-Investigators: J Coles

2012-2017
Hospital for Sick Children
Title: Cellular Effects of Anesthetics
Total Amount: $500,000
Principal Applicant: J Maynes
Co-Investigators: N/A

2013-2014
Hospital for Sick Children, Innovation Grants
Title: Cellular Toxicity After Anesthetic Exposure for Short Surgical Procedures and Identification of Attenuating Agents in Young Children: An Innovative, Translational Pilot Study
Total Amount: $8,500
Principal Investigator: J Maynes
Co-Investigators: Y Finkelstein

2013-2015
University of Toronto, Merit Awards
Title: The use of iPSC-derived cardiomyocytes as models for drug toxicity
Total Amount: $80,000
Principal Investigator: J Maynes
Co-Investigators: N/A

Mazer, CD
2012-2013
Boehringer Ingelheim (Canada) Ltd.
Title: A Randomized, phase II study to Evaluate the safety and pharmacokinetics of oral dabigatran etexilate in patients after heart valve replacement (RE-ALIGN study)
Total Amount: $77,885
Principal Investigator: S Verma
Co-Investigator: CD Mazer

2012-2014
CSL Behring
Title: REPLACE (Randomized evaluation of fibrinogen versus placebo in complex cardiovascular surgery): a prospective, multinational, multicenter, randomized, double-blind, placebo-controlled, phase III study for the use of Fibrinogen Concentrate (Human) (FCH) in complex cardiovascular surgery
Total Amount: $87,312
Principal Investigator: CD Mazer
Co-Investigators: H Kim

2013-2014
Fresenius Kabi AG
Title: Efficacy and safety of perioperative infusion of 6% hydroxyethyl starch 130/0.4 in an isotonic electrolyte solution (VolulyteTM) vs. 5% HSA as volume replacement therapy during cardiac surgery for adult patients
Total Amount: $89,700
Principal Investigator: CD Mazer
Co-Investigators: N/A

2013-2014
AloCure Inc.
Title: A randomized, multicenter, double-blind, placebo-controlled study of AC607 for the treatment of acute kidney injury in cardiac surgery subjects
Total Amount: $16,950

Principal Site Investigator: CD Mazer
Co-Investigators: H Kim

McCarty, CJL
2011-2013
Baxter Educational grant
Title: Continuous peripheral nerve blocks for major orthopedic surgery
Amount: $39,600
Applicants: CJL McCartney, M van der Vyver

Pollard, B
2012-2013
Provincial Innovation Funds
Title: Post-Operative Analgesia with Continuous Peripheral Nerve Block Catheter after Foot and Ankle, or Shoulder Surgery in Ambulatory Patient
Total Amount: $35,600
Principal Investigator: B Pollard
Co-Investigators: T Daniels, J Hall

Voigtlaender-Bolz, J
2012-2015
Canadian Institutes of Health Research
Doctoral Award - Frederick Banting and Charles Best Canada Graduate Scholarships (CGS-D)
Trainee: Meghan Sauve
Total Amount: $105,000
Co-Investigators: S-S Bolz, J Voigtlaender-Bolz
2012-2015
Canadian Institutes of Health Research
Doctoral Research Award - Priority Announcement: Hypertension (SHOPP)
Trainee: Sonya Hui
Total Amount: $105,000
Co-Investigators: S-S Bolz, J Voigtlaender-Bolz

2012
Canadian Institutes of Health Research
Young Investigator Symposium Travel Award
Trainee: Andrew Levy
Total Amount: $1,500
Co-Investigators: S-S Bolz, J Voigtlaender-Bolz

2011-2012
Government of Ontario Ontario Graduate Scholarship in Science and Technology (OGSST)
Trainee: Sonya Hui
Total Amount: $15,000
Co-Investigators: S-S Bolz, J Voigtlaender-Bolz

2011-2012
National Science and Engineering Research Council MATCH Scholarship
Trainee: Sonya Hui
Total Amount: $15,000
Co-Investigators: S-S Bolz, J Voigtlaender-Bolz

Wasowicz, M
2012
Thornhill Research Institute
Title: Clinical study to determine the effectiveness and safety of In-line Mobile Anesthesia Delivery Module (MADAM™) vaporizer
Amount: $53,000
Principle Investigator: M Wasowicz
Co-Investigators: J Fisher, R Katzenelson, L Fedorko, D Wijeysundera
Our goal is to continue to expand our knowledge, to enhance our ability to impart our knowledge to our learners, and to ensure that we augment the delivery of care to our patients.
Paper Performance:
This report was printed using 1,160 lbs of Rolland Enviro100 Print 100% post-consumer paper.

By choosing environmentally friendly paper, we have achieved the following savings:

- 10 trees
- 36,005 L of water
  103 days of water consumption
- 441 kg of waste
  9 waste containers
- 1,448 kg CO2
  9,685 km driven
- 9 GJ
  40,013 60W light bulbs for one hour
- 2 kg NOX
  emissions of one truck during 6 days

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