# Table of Contents

2 **Chair’s Introduction**  
3 Vision, Mission and Values  

4 **Anesthesia Leadership**  
5 Department Committees  
5 Fully Affiliated Hospitals  
5 Community Affiliated Hospitals  

6 **Recognition of Excellence: Honours, Awards, Chairs and Promotions**  
7 Departmental Merit Awards: 2013-2015 Cycle  
8 Additional Awards and Honours  
11 Faculty Promotions and Recognition  

12 **Enhancing Clinical Practice**  
13 Clinical Statistics: Fully Affiliated Hospitals  

14 **Anesthesia Education at the University of Toronto**  

16 **Undergraduate Education Programs**  

18 **Postgraduate Education Programs**  
19 Residents 2013-2014  

20 **Fellowship Programs**  
20 Professors' Rounds for Fellows 2013-2014  
21 Anesthesia Fellows 2013-2014  

22 **Continuing Medical Education**  
22 Course Development  
22 Course Sponsorship  

24 **Faculty Development**  

26 **Research Programs**  
28 Annual Shields Research Day 2014  
30 Peer-Reviewed Publications  
43 Non Peer-Reviewed Publications  
43 Chapters in Books  
44 Apps  

45 **Invited Lecturers**  

63 **Research Funding**  
63 Peer-Reviewed Grants  
70 Non-Peer Reviewed Grants
Dear Colleagues,

I am delighted to present to you the Annual Report 2013-14 for the Department of Anesthesia, University of Toronto.

All annual reports reflect on high levels of productivity across various aspects of the University. We continue to expand our size, impact and academic productivity. With over 270 faculty members, 100 residents, and 100 fellows, we are one of the largest Anesthesia departments in North America – and certainly among the most productive.

In this report, we are delighted to announce several key landmark developments. First, we are thrilled to announce completed agreements for three Endowed Chairs in Anesthesia Research as follows:

- Women’s College Hospital – Chair in Ambulatory Anesthesia;
- St. Michael’s Hospital – Chair in Translational Anesthesia Research;
- The Hospital for Sick Children – Wasser Chair in Pediatric Pain Research.

Each of these Chairs has been enabled by major donations from the individual hospital practice plan that were matched by the university department and completed by commitments from the respective hospital foundation. Several other endowed chairs are being planned.

Second, we have a thriving Clinician-Scientist Program and have won many national and international awards including the Canadian Anesthesiologists’ Society (CAS) Gold Medal to Dr. David McKnight, with key research awards from the society to Drs. Curley, Goldenberg and Balki.

Please review the sectional reports that illustrate outstanding levels of clinical activity, education accomplishment at the undergraduate, resident and CME levels, as well as major success in our research productivity where we once again rank a close second to Harvard University as the major academic producers in the profession in North America.

Please browse the wide range of impactful publications, prestigious invited lectures and note our increasing success in research funding where many of our investigators have extramural peer-reviewed funding and 11 hold CIHR operating grants as principal investigator.

Please don’t hesitate to contact myself or any of the Vice-Chairs or Program Directors to learn more about any aspect of how we educate, practice or conduct research across our department.

Sincerely,

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

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

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

- Integrity;
- Commitment to innovation and excellence;
- Life-long learning and critical inquiry;
- Diversity and social justice;
- Partnership with our health science 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

Dr. Brian Kavanagh ............................... Chair
Dr. Gerald O’Leary ............................ Vice Chair, Clinical Practice, Anesthesiologist-in-Chief, Women’s College Hospital and University Health Network (TGH, TWH, MSH)

Dr. David McKnight....... Vice Chair, Education
Dr. David Mazer........... Vice Chair, Research
Dr. Sue Belo........... Anesthesiologist-in-Chief, Sunnybrook Health Sciences Centre

Dr. Mark Crawford..... Anesthesiologist-in-Chief, The Hospital for Sick Children
Dr. John Laffey..... Anesthesiologist-in-Chief, St. Michael’s Hospital
Dr. Craig Daniels.......... Business Manager

Undergraduate Education Programs

Dr. Isabella Devito ............................. Director
Dr. Clyde Matava ....................... Electives and e-Learning Coordinator

Dr. Diana Tamir ............ Pre-clerkship Coordinator
Dr. Anita Sarmah ........ Simulation Coordinator

Dr. Marjan Jariani .................. OSCE Committee Representative
Mr. Gary Cronin ............... Undergraduate Program Assistant

Site Coordinators

Dr. Dragan Djordevic ....................... Women’s College Hospital
Dr. Christopher Flynn ....... Trillium Health Centre
Dr. Andrew Green .............. Trillium Health Centre
Dr. Marjan Jariani .......................... UHN (Toronto General Hospital)
Dr. Mital Joshi ...................... Mount Sinai Hospital

Dr. Suzanne Liker .......................... St. Joseph’s Health Centre
Dr. Carol Loffelmann ......... St. Michael’s Hospital
Dr. Patrick Mark .......................... Toronto East General Hospital
Dr. Clyde Matava .............. The Hospital for Sick Children
Dr. Ahtsham Niazi ............... UHN (Toronto Western Hospital)

Dr. Larry Panos ..................... The Scarborough Hospital – General Division
Dr. Anita Sarmah ............... Sunnybrook Health Sciences Centre
Dr. Alan Tallmeister ......... The Scarborough Hospital – Birchmount
Dr. Diana Tamir ............... UHN (Toronto General Hospital)

Postgraduate Education Programs

Dr. Mark Levine ............................... Director
Dr. Henderson Lee ..................... Director, Family Practice Anesthesia

Dr. Tobias Everett .............. Anesthesia Simulator Coordinator
Dr. Beverly Morningstar .... Resident Counselor

Dr. David McKnight.......... Vice Chair, Education
Dr. David Mazer .......... Vice Chair, Research
Ms. Jennifer Morris .......... Program Assistant

Site Coordinators

Dr. Lisa Bahrey ................. UHN (Toronto General Hospital)
Dr. Deven Chandra ........ St. Michael’s Hospital
Dr. Vaibhav Kamble ........... Toronto East General Hospital

Dr. Alayne Kealey ............. Sunnybrook Health Sciences Centre
Dr. Kyle Kirkham .............. UHN (Toronto Western Hospital)
Dr. Henderson Lee ............ Family Practice Anesthesia Program

Dr. Martin Ma ................. UHN (Toronto General Hospital)
Dr. Elaine Ng ... The Hospital for Sick Children
Dr. Arun Prasad .... Women’s College Hospital/TWH
Dr. Aliya Salman ........ Mount Sinai Hospital

Fellowship Education Programs

Dr. Doreen Yee .................. Director, Fellowship & International Graduate Programs

Ms. Jennifer Morris ............ Program Assistant

Site Coordinators

Dr. Ki Jinn Chin ....................... UHN (Toronto Western Hospital)
Dr. Paul McHardy .............. Sunnybrook Health Sciences Centre

Dr. Andrea Rigamonti ....... St. Michael’s Hospital
Dr. Naveed Siddiqui .......... Mount Sinai Hospital

Dr. Coimbatore Srinivas ...... UHN (Toronto General Hospital)
Dr. Ilavajady Srinivasan .... The Hospital for Sick Children

Continuing Education and Professional Development

Dr. Peter Slinger ...... Director, CE-PD Programs

Dr. Zeev Friedman ....... Chair, Annual Shields Research Day 2014

Dr. Martin van der Vyver ....... Chair, Faculty Development Day 2013

Faculty Development Programs

Dr. Martin van der Vyver ................ Director
### Department Committees

<table>
<thead>
<tr>
<th>Committee</th>
<th>Chair</th>
<th>Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>Executive Committee</td>
<td>B. Kavanagh</td>
<td>S. Belo, M. Crawford, C. Daniels, J. Laffey, D. Mazer, D. McKnight, G. O’Leary</td>
</tr>
<tr>
<td>Education Council</td>
<td>D. McKnight</td>
<td>I. Devito, J. Hanlon, B. Kavanagh, H. Lee, M. Levine, J. Morris (Secretary), C. Ringstead, P. Slinger, M. van der Vyver, D. Yee</td>
</tr>
<tr>
<td>Department Appointments Committee</td>
<td>B. Macpherson</td>
<td>S. Halpern, C. Loffelmann, C. Daniels (Secretary), M. O’Driscoll, A. Perlas</td>
</tr>
<tr>
<td>Promotions Committee</td>
<td>M. Crawford</td>
<td>S. Beattie, R. Brull, F. Chung, J. Katz, B. Kavanagh, J. Laffey, D. Mazer, B. Orser, J. Tarshis, J. Wassermann</td>
</tr>
<tr>
<td>Continuing Medical Education/Professional Development</td>
<td>P. Slinger</td>
<td>P. Angle, S. Davies, L. Eisen, M. Friedlander, L. Isaac, B. Kavanagh, J. Kay, C. Knapp, D. McKnight, A. Rigamonti, J. Tarshis, M. van der Vyver, L. Venkatraghavan</td>
</tr>
<tr>
<td>Faculty Development Committee</td>
<td>M. van der Vyver</td>
<td>L. Bahrey, K. Kanduja, B. Kavanagh, C. Matava, D. McKnight, N. Lo, S. Liiker, S. Riazi, P. Slinger</td>
</tr>
<tr>
<td>Fellowship Education Committee</td>
<td>D. Yee</td>
<td>K.J. Chin, P. McHardy, D. McKnight, J. Morris (Secretary), A. Rigamonti, N. Siddiqui, C. Srinivas, I. Srinivasan</td>
</tr>
<tr>
<td>Postgraduate Education Committee</td>
<td>M. Levine</td>
<td>Z. Al-Mousawy, L. Bahrey, S. Bragg (PG1), D. Chandra, I. Devito, V. Kamble, B. Kavanagh, A. Kealey, K. Kirkham, A. Krishna (PG5), M. Ma, D. Mazer, D. McKnight, B. Morningstar, J. Morris (Secretary), E. Ng, L.A. Noyahr (PG3), A. Prasad, A. Salman, S. Yu (PG2)</td>
</tr>
<tr>
<td>Undergraduate Education Committee</td>
<td>I. Devito</td>
<td>E. Baig (Resident), V. Chinnappa, M. Choi, G. Cronin (Secretary), S. Desousa, H. Felice (Year 3 Rep), C. Flynn, A. Green, M. Joshi, B. Kavanagh, S. Liiker, C. Loffelmann, D. McKnight, P. Mark, C. Matava, H. Meng (Year 4 Rep), A. Niazi, L. Panos, A. Sarmah, E. Siu (Resident), D. Tamir, A. Tallmeister, D. Thakrar (Resident)</td>
</tr>
<tr>
<td>Faculty Development Day 2013 Planning Committee</td>
<td>M. van der Vyver</td>
<td>G. Cronin, C. Daniels, B. Kavanagh, C. Matava, J. Morris, S. Riazi</td>
</tr>
<tr>
<td>Shields Day 2014 Planning Committee</td>
<td>Z. Friedman</td>
<td>G. Cronin, C. Daniels, B. Kavanagh, J. Morris</td>
</tr>
</tbody>
</table>

### Fully Affiliated Hospitals

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

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

### Community Affiliated Hospitals

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

- 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 Partners
Recognition of Excellence: Honours, Awards, Chairs and Promotions

The following University department awards were presented at the 35th Annual Shields Research Day 2014:

- The Dr. R.J. Byrick Award recognizes the best fellow’s research paper presented at the Annual Shields Research Day: **DR. WALEED SOLIMAN** (Fellow, St. Michael’s 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: **JULIA PLAKHOTNIK** (Graduate student, The Hospital for Sick Children).
- The Dr. Hynek Rothbart Award for the best paper presented by a resident at the Annual Shields Research Day: **DR. NEIL GOLDENBERG** (Resident, PGY4).
- The Thomas Donald Hammell Memorial Award in Anesthesia, is awarded in recognition of outstanding contributions to the Residency Program, as chosen by other residents: **DR. ZOE UNGER** (Fellow, UHN-Toronto Western Hospital).
- The UT David Bevan Best Shields Day Poster Award: **DR. BENJAMIN STEINBERG** (Resident, PGY4).
- The Dr. Evelyn Bateman Award is awarded in recognition of excellence in anesthesia at the undergraduate level: **DR. HOWARD MENG** (Resident PGY1).
- 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: **DRS. HELEN HOLTBY** (The Hospital for Sick Children), **SUZANNE LILKER** (St. Joseph’s Health Centre), **KAREN MCRAE** (Toronto General Hospital), **SHEILA RIAZI** (Women’s College Hospital), **JOSHUA RUCKER** (Mount Sinai Hospital) and **LAKSHMIKUMAR VENKAT RAGHAVAN** (Toronto Western Hospital).

The following University department teaching awards were also bestowed in 2013-2014:

- The Dr. John Desmond Award recognizes excellence in clinical teaching of undergraduate students: **DR. MARJAN JARIANI** (UHN-Toronto General Hospital).
- The Dr. Gerald Edelist Award is awarded to a faculty member in recognition of excellence as a clinical teacher of residents in anesthesia: **DR. BRIAN POLLARD** (St. Michael’s Hospital).
- The Dr. David Fear Award is awarded for outstanding contributions to continuing medical education and continuing professional development in the Department of Anesthesia: **DR. LAKSHMIKUMAR VENKAT RAGHAVAN** (UHN-Toronto Western Hospital).
- The Interprofessional Teaching Award recognizes outstanding teaching both within and outside of the anesthesia community: **DR. STUART MCCLUSKEY** (UHN-Toronto General Hospital).
- The winner of the Laws Travel Fellowship 2014 was: **DR. MARCOS SILVA** (Resident, PGY3).
- Tuition awards for our residents and fellows – to fund graduate level education programs – were also presented to: **DR. JOSH GLEICHER** (Resident, PGY3), **DR. JAMES KHAN** (Resident PGY3) and **DR. DAVID ORLOV** (Resident, PGY5).

Congratulations to UT Anesthesia Department members on their success at the 2014 Canadian Anesthesiologists’ Society Annual Meeting (CAS)

- **DR. DAVID MCKNIGHT**: 2014 CAS Gold Medal Award. The Gold Medal is the highest award of the Canadian Anesthesiologists’ Society. It is a personal award consisting of an inscribed gold medal given in recognition of excellence in matters related to anesthesia.
- **DR. GERARD CURLEY** (St. Michael’s Hospital): CAS Research Award.
- **DR. NEIL GOLDENBERG** – Ontario’s Anesthesiologists – CAS Residents’ Research Grant.
- **DR. MRINALINI BALKI** (Mount Sinai Hospital): CAS Career Scientist Award in Anesthesia.

CAS Best Paper Winners:

- Award for Best Paper in Neuroanaesthesia: **DR. LAKSHMIKUMAR VENKAT RAGHAVAN** (UHN-Toronto Western Hospital) “Effect of General Anesthesia on Microelectrode Recordings During DBS Surgery.”
- Award for Best Paper in Education and Simulation in Anesthesia: **DR. GIANNI LORELO** “Diagnosing Murmurs and Designing Learning.”
- CVT Raymond Martineau Prize: **DR. DEBASHIS ROY** “Individualized Blood Management in Cardiac Surgery using a Point-of-Care based Transfusion Algorithm.”
Departmental Merit Awards: 2013-2015 Cycle

The following individuals have received competitive peer-reviewed merit awards through the UT Department of Anesthesia for the period 2013-2015.

**Research Merit Awards:**

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Hospital</th>
<th>Project Title</th>
<th>Award Value/Annum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mrinalini Balki</td>
<td>UHN-MSH</td>
<td>In-vitro and in-vivo approaches to improve treatment options for PPH in high-risk women.</td>
<td>$40,000</td>
</tr>
<tr>
<td>Andrew Baker</td>
<td>St. Michael's Hospital</td>
<td>Endothelial progenitor cells in mild traumatic brain injury: biomarker and mechanisms in recovery.</td>
<td>$40,000</td>
</tr>
<tr>
<td>W. Scott Beattie</td>
<td>UHN-TGH</td>
<td>Defining safe processes of care that reduce the Impact of Perioperative Myocardial Infarction.</td>
<td>$40,000</td>
</tr>
<tr>
<td>Richard Brull</td>
<td>UHN-TWH</td>
<td>The facilitatory effects of perineural dexmedetomidine for interscalene block.</td>
<td>$40,000</td>
</tr>
<tr>
<td>Ki Jinn Chin</td>
<td>UHN-TWH</td>
<td>Validation of the analgesic efficacy of the Transversalis Fascia Plane (TFP) block – a novel technique in iliac crest bone graft harvesting.</td>
<td>$40,000</td>
</tr>
<tr>
<td>Hance Clarke</td>
<td>UHN-TGH</td>
<td>The transition from acute to chronic postsurgical pain: a multicentre prospective study.</td>
<td>$40,000</td>
</tr>
<tr>
<td>Brian Cuthbertson</td>
<td>Sunnybrook Health Sciences Centre</td>
<td>SuDDICU randomized clinical trial.</td>
<td>$40,000</td>
</tr>
<tr>
<td>George Djaiani</td>
<td>UHN-MSH</td>
<td>Inhalational anesthesia and precipitation of dementia: is there a link?</td>
<td>$40,000</td>
</tr>
<tr>
<td>Joseph Fisher</td>
<td>UHN-TGH</td>
<td>Application of automated precise control of arterial blood partial pressure of gases: CO2, O2, CO and anesthetic vapours.</td>
<td>$40,000</td>
</tr>
<tr>
<td>Greg Hare</td>
<td>St. Michael's Hospital</td>
<td>Treatment of anemia to improve patient outcomes: a translational research program.</td>
<td>$40,000</td>
</tr>
<tr>
<td>Keyvan Karkouti</td>
<td>UHN-TGH</td>
<td>What causes transfusion-related acute organ injury and how can it be avoided?</td>
<td>$40,000</td>
</tr>
<tr>
<td>John Laffey</td>
<td>St. Michael's Hospital</td>
<td>Optimising the therapeutic potential of human Mesechymal Stromal Cells (hMSCs) for Acute Respiratory Distress Syndrome.</td>
<td>$40,000</td>
</tr>
<tr>
<td>Jason Maynes</td>
<td>The Hospital for Sick Children</td>
<td>The use of iPSC-derived cardiomyocytes as models for drug toxicity.</td>
<td>$40,000</td>
</tr>
<tr>
<td>David Mazer</td>
<td>St. Michael's Hospital</td>
<td>Reducing adverse outcomes in cardiac surgery related to tissue hypoxia.</td>
<td>$40,000</td>
</tr>
<tr>
<td>Colin McCartney</td>
<td>Sunnybrook Health Sciences Centre</td>
<td>OPRA: Optimizing Pain and Rehabilitation after Knee Arthroplasty?</td>
<td>$40,000</td>
</tr>
<tr>
<td>Sheila Riazi</td>
<td>UHN-TGH</td>
<td>Skeletal muscle bioenergetics and mitochondrial function in malignant hyperthermia patients (MHS).</td>
<td>$40,000</td>
</tr>
<tr>
<td>Charlotte Ringsted</td>
<td>UHN-TGH</td>
<td>Research program in anesthesia education and practice.</td>
<td>$40,000</td>
</tr>
<tr>
<td>Elod Szabo</td>
<td>The Hospital for Sick Children</td>
<td>Defining gating pore current elicited signaling pathways in cardiac cells.</td>
<td>$40,000</td>
</tr>
<tr>
<td>Marcin Wasowicz</td>
<td>UHN-TGH</td>
<td>Thinking outside of the box – innovations in peri-operative medicine.</td>
<td>$40,000</td>
</tr>
<tr>
<td>Duminda Wijeysundera</td>
<td>UHN-TGH</td>
<td>Improving perioperative risk assessment and outcomes: an integrated research program.</td>
<td>$80,000</td>
</tr>
</tbody>
</table>

**Education And CPA Merit Awards:**

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Hospital</th>
<th>Project Title</th>
<th>Award Value/Annum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tobias Everett</td>
<td>The Hospital for Sick Children</td>
<td>Discovering determinants of clinical team performance using in-situ interprofessional simulation.</td>
<td>$40,000</td>
</tr>
<tr>
<td>Zeev Friedman</td>
<td>UHN-MSH</td>
<td>Using “Cockpit Resource Management” for challenging critical errors by a superior.</td>
<td>$40,000</td>
</tr>
<tr>
<td>Megan Hayter</td>
<td>St. Michael's Hospital</td>
<td>Simulation-based research to enhance education – establishing the role of mental practice.</td>
<td>$40,000</td>
</tr>
<tr>
<td>Massimiliano Meineri</td>
<td>UHN-TGH</td>
<td>On-line virtual point of Care ultrasound module and handbook.</td>
<td>$20,000</td>
</tr>
<tr>
<td>Ahtsham Niazi</td>
<td>UHN-TGH</td>
<td>Telesimulation: can it be used to teach ultrasound guided brachial plexus block to anesthetists in Ontario?</td>
<td>$20,000</td>
</tr>
</tbody>
</table>
Additional Awards and Honours

We are pleased to highlight the following honours and awards, received by our faculty members in 2013-2014:

**FARAJ ABDALLAH**

**HERMAN CHAN**
- “Bob Mackenzie” Clinical Teacher Award, Sunnybrook Health Sciences Centre, 2014

**VINCENT CHAN**
- Distinguished Service Award, European Society of Regional Anesthesia and Pain Therapy, 2013
- Teaching Recognition Award for Achievement in Education, International Anesthesia Research Society (IARS), 2013

**KATHLEEN DATTILO**
- The Dr. John Bradley Award for Excellence in Teaching, Mount Sinai Hospital and University Health Network Department of Anesthesia and Pain Management Teaching Award, 2013

**HANCE CLARKE**
- Clinical Pain Management Fellowship Award, Canadian Pain Society, 2013

**PETER COX**
- 1st Annual Patient Safety Humanitarian Award, presented by former US President and Keynote Speaker Bill Clinton at the 2nd Annual Patient Safety, Science and Technology Summit, Laguna Beach, California, USA, 2014
- Medical Staff Association (MSA) Citizenship Award, MSA, The Hospital for Sick Children, 2014

**GERARD CURLEY**
- Global Rising Star, Australia and New Zealand Intensive Care Society, Melbourne, Australia, 2014
- Distinction in Scholarship Award, American Physiological Society, Bethesda, Maryland, 2014

**TOBIAS EVERETT**
- Best Pediatric Burn Paper 2014, American Burn Association/Shriners Hospital for Children, Boston, Massachusetts, 2014
- Program Innovation Award 2014, International Society for Simulation in Healthcare, San Francisco, California, (Distinction), 2014
- New Faculty Teaching Excellence Award, Department of Anesthesia, Faculty of Medicine, University of Toronto, Ontario, 2013
- Robert Creighton Award for Excellence in Clinical Teaching, Department of Anesthesia, Faculty of Medicine, The Hospital for Sick Children, Toronto, Ontario, 2013

**MARCO GARAVAGLIA**
- Education Achievement Award, Art Dunn Undergraduate Student, Department of Anesthesia, St. Michael’s Hospital, University of Toronto, 8th Annual St. Michael’s Education Achievement Day for Physicians, 2013
GREGORY HARE
- Best Abstract Award, Combined meeting of Asian Australasian Congress of Anaesthesiologists (AACA) and The Australasian Symposium of Ultrasound & Regional Anaesthesia (ASURA) Auckland, New Zealand. “New insight into organ specific thresholds for tissue hypoxia during acute anemia,” 2014

EDGAR HOCKMANN
- The University of Toronto Interdepartmental Division of Critical Care Best Teacher in a University of Toronto affiliated site award, 2014

HELEN HOLTBY
- President, Congenital Cardiac Anesthesia Society, 2012–2014

PATRICIA HOUSTON
- Jeffrey Lozon Physician Leadership Award, St. Michaels Hospital, Toronto, Ontario (Distinction), 2013

JOEL KATZ
- Canadian Pain Society Distinguished Career Award, 2013
- York University Research Leaders Award, 2014

BRIAN KAVANAGH
- Research Chair, Dr. Geoffrey Barker Chair in Critical Care Medicine, The Hospital for Sick Children and University of Toronto, 2003 – present
- Desmond Bohn Researcher of the Year Award (Critical Care), The Hospital for Sick Children, University of Toronto, 2013

KYLE KIRKHAM
- MSH-UHN Department of Anesthesia and Pain Management Teaching Award, Undergraduate Teaching Award, 2013

SALIMA LADAK
- Canadian Pain Society, The Nursing Excellence in Pain Management Award, 2014

PETER LAUSSEN
- Best of Pediatric Anesthesiology Category Abstract Award, International Anesthesia Research Society (IARS) 2014 Annual Meeting and International Science Symposium, Montreal, Quebec, (Distinction), 2014
- David and Stacey Cynamon Chair in Critical Care Medicine, The Hospital for Sick Children, Toronto, Canada, 2013 – present

MARK LEVINE
- Postgraduate Teaching Award, Pediatric Anesthesia, Department of Anesthesia, Faculty of Medicine, The Hospital for Sick Children, 2014

CLYDE MATAVA
- 1st Prize in Clinical Research, Co-Investigator, Society for Pediatric Urology (Research Award, Specialty: Anesthesia and Urology) for presentation: “TAP vs. local infiltration for pain control after open pyeloplasty.” San Diego, California, 2013
- Excellence in Undergraduate Teaching Award, Department of Anesthesia and Pain Medicine, The Hospital for Sick Children, Toronto, Ontario, 2014

JASON MAYNES
- Young Investigator Award, Society for Pediatric Anesthesia, Fort Lauderdale, Florida, 2014

PAUL MCHARDY
- Sunnybrook Health Science Centre’s “Best Regional Teacher” Award: chosen by regional elective resident vote as best overall regional anesthesia teacher during the HOAC Regional Elective Rotation, 2013
JAMES O’LEARY
- Doctorate in anesthesia research, University College Cork, Ireland, 2014

BEVERLEY ORSER
- Elected, Smart Tots International Advisory Panel, International Anesthesia Research Society (IARS), 2013
- 2013 Aiken Lecturer, Neuroscience Group, University of Western Ontario, London, Ontario, Canada, 2013
- Elected, Board of Trustees: International Anesthesia Research Society, 2013
- Chair, External Advisory Board, Frontiers in Anesthesia Award for the International Anesthesia Research Society, 2008 to 2014

ELISE PARADIS
- Specialty Award for Best Poster, Society of Critical Care Medicine, 2014

BRIAN POLLARD
- Dr. W. Noble Clinical Fellow Teaching Award, Department of Anesthesia, St. Michael’s Hospital, Toronto, Ontario, 2014
- Dr. G. Edelist Post-Graduate Award for Teaching Excellence, University of Toronto, Department of Anesthesia, Toronto, Ontario, 2013

SHEILA RIAZI
- University of Toronto, Department of Anesthesia, Faculty Development Day, Best Poster Award, Toronto, Canada, 2013
- Wightman-Berris Academy, Mount Sinai Hospital and University Health Network, Anderson Award, Program Innovation and Development, 2013

KATHERINE TAYLOR
- First prize research competition, Principal Investigator, Society of Paediatric Anaesthesia Australia and New Zealand, (SPANZA), 2013

JEFF WASSERMANN
- Dr. W.T. Aikins Award (Individual Teaching; Large Group category), University of Toronto, Faculty of Medicine, 2013

GREGORY WELLS
- Recognition Award, Alumnus of the Year, Crescent School, 2013
- Canadian Science Writers Association, Patient and Public Education, Science Communications Award, Physical Education and Health, 2014

DUMINDA WIJEYSUNDERA
- The Ontario Ministry of Research & Innovation, Early Researcher Award, Improving the Evaluation of Physical Fitness for Major Surgery, 2014

HAIBO ZHANG
- Chang Jiang Scholar, Ministry of Education, China and Li Ka Shing Foundation, 2013
Faculty Promotions and Recognition

Academic Promotions: July 2013 – June 2014

We are very pleased to announce the following academic promotions, effective July 1, 2013:

To the rank of Full Professor:
- DR. COLIN MCCARTNEY (Sunnybrook Health Sciences Centre)
- DR. PHILIP PENG (UHN-Toronto Western Hospital)
- DR. DAVID WONG (UHN-Toronto Western Hospital)

To the rank of Associate Professor:
- DR. JANE HEGGIE (UHN-Toronto General Hospital)
- DR. JEFF WASSERMANN (St. Michael’s Hospital)
- DR. JEAN WONG (UHN-Toronto Western Hospital)

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

To the rank of Assistant Professor:
- DR. MARTIN MA (UHN-Toronto General Hospital). Effective January 1, 2014
- DR. KRISTINA KHANDUJA (Mount Sinai Hospital). Effective June 1, 2014
Enhancing Clinical Practice

Report from Dr. Gerald O’Leary, Vice Chair, Clinical Practice

The UofT department of anesthesia, across its affiliated hospitals, strives to provide excellence in clinical care, innovation, education and research. While we take pride in our leadership in many of these areas, we show equal humility with respect to the Ebola Virus Disease (EVD) in West Africa. Perhaps it is our experience with Severe Acute Respiratory Syndrome (SARS) a decade ago, in addition to the 50-90% mortality rate that has heightened our awareness of the potential impact of EVD on our community and on our health care system.

Accordingly, since the start of the summer we have been part of a team of health care professionals to ensure that if EVD comes to Toronto, our training in the management of the critically ill and our skills in airway management will be effectively utilized to deliver the best care, safely to these patients, whether they are Canadians that develop EVD while providing care in West Africa and are flown back to Toronto for ongoing treatment or others that present with EVD whilst in Canada.

We have built on the lessons learned from SARS and have designated hospitals and back up hospitals to provided EVD care. We have teams that are trained to safely apply and remove appropriate protective equipment whether PPE or PAPR. We have policies for how to provide care to patients who present with known or potential EVD symptoms in our emergency departments, to safely intubate, ventilate and transfer to ICU isolation rooms and even to take to the OR for surgery.

As with all policies and procedures these will continue to evolve and to be refined. Just as with SARS a decade ago, we will again place staff anesthesiologists in harm’s way to deliver best care safely to these patients. While we limit resident exposure, we need to ensure that we engage them in the decision making processes so that they too can lead similar health care issues in the future.

While it is never possible to prepare for every situation, there are basic principles that can be universally applied. One of the hallmarks of being an anesthesiologist is that we like to identify potential problems and to develop plans to avoid them.

The best outcome would be that EVD never comes to Canada but for now it helps to sleep at night assured that if (or when) Ebola comes to Canada, that health care workers will deliver and patients will receive good, safe care.
### Clinical Statistics: Fully Affiliated Hospitals

For the period: July 1, 2013 to June 30, 2014

<table>
<thead>
<tr>
<th></th>
<th>TGH</th>
<th>TWH</th>
<th>Mount Sinai</th>
<th>Sunnybrook</th>
<th>St. Michael’s</th>
<th>Hospital For Sick Children</th>
<th>Total – All Sites</th>
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</thead>
<tbody>
<tr>
<td><strong>General Anesthetics:</strong></td>
<td>7,878</td>
<td>6,803</td>
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<td>12,380</td>
<td>14,992</td>
<td>22,319</td>
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<td>956</td>
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<td>6,746</td>
<td>3,220</td>
<td>2,829</td>
<td>7,846</td>
<td>25,897</td>
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<td><strong>Deliveries:</strong></td>
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<td>7,229</td>
<td>4,235</td>
<td>2,933</td>
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<td>14,397</td>
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<tr>
<td><strong>Epidurals/spinals:</strong></td>
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<td>--A</td>
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<td>2,551</td>
<td>1117</td>
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<td><strong>Caesarian sections:</strong></td>
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<td>1,453</td>
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<td>n/a</td>
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<tr>
<td><strong>Caesarian section rate:</strong></td>
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<td>n/a</td>
<td>34.9%</td>
<td>34%</td>
<td>27%</td>
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<td><strong>Pain clinic cases:</strong></td>
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<td>n/a</td>
<td>2,629</td>
<td>593</td>
<td>3939</td>
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<td><strong>Acute pain service:</strong></td>
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<td>5,000</td>
<td>3,996</td>
<td>939</td>
<td>19,851</td>
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<tr>
<td><strong>ICU beds:</strong></td>
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<td>23</td>
<td>16</td>
<td>69</td>
<td>69</td>
<td>n/a</td>
<td>230</td>
</tr>
</tbody>
</table>

**Note:**
ATGH, TWH and MSH Regional Anesthetics numbers include Epidurals/Spinals.
It is again my pleasure to introduce the Education section of the annual report. This is a very large university department with almost 400 faculty members at fourteen affiliated hospital sites including a number of community hospitals. 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 an active faculty development program and continuing education for physicians practicing anesthesia. Many faculty members are innovators in medical education and several have programs in educational research. All of this is made enjoyable 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. Her report highlights the introduction of the “flipped classroom” in the anesthesia rotation, the effective expansion of use of simulation, and the introduction of the anesthesia clerkship in the Mississauga Academy of Medicine.

Dr. Mark Levine praises the academic achievement of our residents as seen in the number of publications, awards, and graduate degrees and—once again—in the success of all of the final year residents at the Royal College certification examinations.

Our fellowship programs continue to attract excellent junior anesthesiologists from Canada and around the world. The central program organized by Dr. Doreen Yee, including a popular Professors’ Rounds for fellows, has enriched their learning environment.

The continuing education program of the Department, led by the CE committee chaired by Dr. Peter Slinger, has had another very ambitious year with many excellent and well attended courses. Faculty Development Day provides our faculty members with an opportunity to improve their skills as teachers and supervisors. Dr. Martin Van der Vyver’s committee also organized several other events for faculty members.

The University of Toronto Department of Anesthesia is a leader in anesthesia education due to the excellence and hard work of 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 of and gratitude for their hard work.
The 2013-14 academic year was the first year to deliver our curriculum by way of the “flipped classroom” where learning occurs at home and application of knowledge occurs in the classroom.

With the expansion to thirteen sites, there were obstacles to the delivery of our curriculum by the traditional central seminars. In the past, we tried videoconferencing but there were often technical issues. A new method of delivery was required. After successful implementation by Dr. Anita Sarmah of interactive e-modules for our Simulation Day, it was felt that a similar model could be used for the seminars.

Under the leadership of Dr. Clyde Matava, our core central seminars were replaced with interactive e-modules, with pre and post tests for self-evaluation. Dr. Carol Loffelmann developed the Airway module; Dr. Marjan Jariani, the Pre-operative Assessment module; Dr. Mital Joshi, the Obstetrical Anesthesia module; and Dr. Ahtsham Niazi, the Regional module. Many of our committee members were involved in editing and reviewing these modules. A discussion board was developed to allow students to ask questions in real time as they work through the modules.

While e-modules are an effective modality to teach new concepts, we needed to determine if, in fact, the concepts taught were actually learned and could be applied to clinical situations. An exit simulation and Case Based Learning (CBL) day was developed for the end of the rotation to assist students with the assimilation of knowledge. Dr. Sarmah and her simulation team at Sunnybrook developed three clinical scenarios involving preoperative, intraoperative and post-operative management with a “gaming” component. The second half of the day involves CBL and “Anesthesia Jeopardy”, again involving gaming. Four structured cases were developed each focusing on the objectives of the e-modules. Faculty and student feedback has been positive. After a one year experience with the flipped classroom model, we have concluded that it is a successful model for delivery of our curriculum and one that promotes critical thinking skills using technology.

Our experience has been presented at the “Innovations in Medical Education Conference” at the University of Southern California, the International Anesthesia Research Society meeting in Montreal, and at the Canadian Association of Anesthesiologist Conference in St. John’s, Newfoundland and Labrador.

Dr. Catherine Nix along with Dr. Michael Wiley (Department of Anatomy) successfully coordinated the introduction of Point of Care Ultrasound (PoCUS) into the first year Structure and Function course. This was a collaborative effort between the Departments of Anesthesia, Medical Imaging, Internal Medicine, Emergency Medicine and Critical Care Medicine. Many of our residents, fellows and faculty were involved in making this a success. An academic business plan was submitted to Dean Whiteside, which received her approval for funding to move forward with an integrated four year curriculum. Dr. Catherine Nix was instrumental in developing and implementing this program. It was her vision of integration and collaboration that allowed this program to develop and grow. Our experience with inferior vena cava imaging was presented at both the Second World Congress Ultrasound in Medical Education at the University of South Carolina and at the Association of Medical Education Europe meeting in Prague.

The 2013-14 academic year was also the inaugural year of the official clerkship at the Mississauga Academy of Medicine. Dr. Andrew Green was appointed the site coordinator for Mississauga General and Dr. Chris Flynn was appointed the site coordinator for Credit Valley Hospital.

The transition to a formal clerkship was seamless due to forward planning and to a dedicated group of faculty teachers at both sites. Faculty Development sessions were ongoing throughout the year.

The Anesthesia Interest Group (AIG) for undergraduate medical students, under the leadership of Dr. Diana Tamir, continues to be extremely popular. Activities included an “Anesthesia Information Evening” attended by both community and downtown anesthesiologists, and an airway and ultrasound workshop. As in other years, interest surpassed available spots for our workshops. These workshops were facilitated by very dedicated residents from all years. The AIG has presented a proposal for a career exploration week in Anesthesia.

They have worked with Dr. Ehtesham Baig (PGY3) to develop a dedicated Anesthesia Career Exploration (ACE) week following the first year of medicine. The planned implementation is June 2015.

Our electives program under the leadership of Dr. Clyde Matava continues to be popular at the local, national and international level. Our fourth year selectives in the Transition to Residency course continue to be very popular.
Our faculty continue to be involved in all years of medicine. Many of our faculty are involved in the selection of the new medical students through file reviews and interviews. We continue to have a strong presence in the Pre-clerkship with tutors in ASCM I and II, DOCH II, Brain and Behaviour, and MMMD (Mechanism, Manifestations, and Management of Disease). **DR. JEFF WASSERMANN** continues to lead Trauma week in MMMD. Many of our faculty are academy scholars in the Portfolio program in both third and fourth year. As well, our faculty are active participants in the iOSCE, both with item writing and as evaluators.

For the next academic year (2014-15), the medical school will implement a trial of a formal Longitudinal Integrated Curriculum (LInC) at St. Michael’s Hospital (SMH). As a result, during this academic year **DR. CAROL LOFFELMANN** at SMH has been working with the FitzGerald Academy to develop a longitudinal anesthesia clerkship rotation. Students in this program will have an Anesthesia specific patient panel.

For the following academic year, 2015-16, our major challenge will be expanding the LInC program to other academies, and the faculty development that will be required at both community and downtown hospitals. A further challenge will be the continued growth and development of the PoCUS program and the development and implementation of the ACE program. A final challenge will be the finalize transition of all seminars to e-modules, with the inclusion of two additional modules; pain management and fluid therapy.

This academic year was truly a remarkable year for the Anesthesia Undergraduate Program. We successfully implemented our “flipped classroom”, introduced a formal clerkship at the MAM and were instrumental in developing an integrated, longitudinal Point of Care Ultrasound (PoCUS) program into the medical school. Successful implementation of these endeavors was possible due to a highly committed group of educators who embrace team work to achieve a common goal. Our vision has followed that of the University of Toronto Faculty of Medicine, through integration (PoCUS), innovation (flipped classroom) and impact (numerous presentations at national and international meetings relating to and sharing our novel curriculum).

Our remarkable teaching faculty continue to be our greatest resource. Without them, the success of our program would not be possible. Their dedication and mentoring are reflected in our continuing popularity as a specialty.
Postgraduate Education Programs

Report from Dr. Mark Levine, Director, Postgraduate Education Program

A large number of very strong applicants applied to our program for the 2013-14 academic year. In July 2013, we welcomed 18 new PGY1 residents to the department. In addition, a number of residents in other programs requested transfers into the program and we accepted 2 of these trainees into the PGY2 year.

The unique experience we are able to offer our residents in subspecialty areas such as regional anesthesia, chronic pain, and pediatric anesthesia attracted an additional 8 elective residents from programs around the country.

Many of our residents were very productive in terms of research and in pursuit of higher degrees. In a very competitive Resident Research Competition, DRS. GIANNI LORELLO, MARK MCVEY, and BEN STEINBERG were granted Resident Research Awards by the Postgraduate Education office. 11 of our residents presented papers at the Annual Shields Research Day. DR. NEIL GOLDENBERG was the recipient of the Hynek Rothbart Award for best Resident Oral presentation and DR. BEN STEINBERG received the David Bevan Award for best poster. The Thomas Donald Hammell Award, for the resident who is identified by his/her peers as the person who has made the greatest contribution to the program was presented to DR. ZOE UNGER. The Laws Travel Award was presented to DR. MARCOS SILVA and Tuition awards were presented to DRS. JAMES KHAN, JOSHUA GLEICHER, and DAVID ORLOV.

At the Canadian Anesthesiologists’ Society meeting held in June 2014, DR. DEBASHIS ROY received the award for best Cardiovascular/Thoracic anesthesia poster and DR. GIANNI LORELLO the award for best paper in Education and Simulation.

A number of our residents have been very active in undergraduate education including teaching of ASCM (Art and Science of Clinical Medicine) and problem based learning and all our senior residents participate in the teaching and evaluation of medical students in the high fidelity simulator, an integral part of their core anesthesia rotations. In addition, DR. JOSH GLEICHER played a major role in the development of an educational model for the teaching of anatomy and Point of Care Ultrasound (POCUS) in Undergraduate Medical Education.

In the fall of 2012 DR. MARIANNE GRAHAM spearheaded the formation of reflective portfolio groups. These are small group sessions led by dedicated, trained faculty supervisors during which residents review issues relating to the intrinsic CanMEDS competencies (particularly Collaborator, Communicator, and Professional) which they have identified during clinical encounters. This has been a very successful method for teaching these roles.

In the spring of 2014, 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.

A celebratory reception was held for all the graduating residents and their family members and was attended by a number of faculty members who were intimately involved in preparing the residents for their exams and ultimately for independent practice.

The specialty of Anesthesia continues to be a popular choice for graduating medical students.
# Residents 2013-2014

## PGY5
- Alam, Fahad (CIP)
- Khemani, Ekta
- Orlov, David
- Chau, Edmond
- Koval, Joseph
- Tylee, Michael
- Flamer, David
- Krishna, Arjun
- Unger, Zoe
- Henry, Paul
- Le, Nam
- Waldman, Kyle
- Hurlburt, Lindsay
- McVey, Mark (CIP)
- Kerelska, Tina
- Mottiar, Miriam

## PGY4
- Abrishami, Amir
- Jhajj, Prabhjote
- Singh Srikantharajah, Sandjho
- Al-Mousawy, Zolfakar
- Lorello, Gianni (CIP)
- Wang, Jane Jing
- Au, Samuel Fook Hang
- Leshchysyn, Eugene
- Wang, Ruining Cindy
- Bechamp, Robert
- Mikhael, Rafeek
- Wong, Simon Wai Lun
- Bourgeois, Andre
- Mu, Alex
- Woloszyk, Michael
- Ho, Clara
- Runkle, Bryn Tyson
- Zhou, Taylor
- Ho, Melissa Wei-Yee
- Song, Yuning

## PGY3
- Baig, Ehtesham
- Gleicher, Yehoshua
- Peacock, Sharon
- Benson, Garrett
- Goldenberg, Neil (CIP)
- Silva, Marcos
- Brown Russell
- Goodick, David
- Steinberg, Benjamin (CIP)
- Chbat, Tarek
- Huang, Alexander
- Sutherland, Ainsley
- Cummings, Theresa
- Khan, James
- Talab, Hesham
- Farlinger, Chris
- Moenalsadat, Mahsa
- Thakrar, Dipen
- Fraser, Tyler
- Noyahr, Lori-Anne
- Yau, Brian

## PGY2
- Dinsmore, Michael
- Lee, Kenneth
- Suen, Alexander
- Duncan, Dallas
- Levin, David
- Valeeva, Liliya
- Knight, Jeffrey
- Li, Melinda
- Van Haafken, Timothy
- Koziak, Adrian
- Nkemngu, Njinkeng
- White, Alexander
- Lam, Karen
- Petre, Maria-Alexandra
- Wiegolmann, Julian
- Law, Tyler
- Raphael, Michael
- Yu, Savio

## PGY1
- Bartoszko, Justyna (CIP)
- Lam, Thach
- Salmikivi, Lance
- Bragg, Susan
- Lane, Sophia
- Sellings, Laurie
- Chan, Stephen
- Nurmohamed, Aliya
- Sharma, Richa
- Elman, Joel
- Padzic, Jan
- Siddiqui, Asad (CIP)
- Goldmacher, Jesse
- Perez D’Empaire, Pablo
- Siu, Eric
- Ladowski, Stephanie
- Roy, Debashis
- Vorobeichik, Leon

(CIP) – Clinical Investigator Program
Fellowship training continues to be a popular choice among anesthesia trainees for a variety of reasons. The opportunity to receive further training in a subspecialty area at one of the university’s centers of excellence remains one of the top reasons for coming. For our fellows that come from abroad, a chance to spend one or two years in our city is an added bonus. Some fellows from the United Kingdom and Australia are able to count the Canadian fellowship year towards their training back home. Canadians who did medical training abroad are also returning to do fellowships and prepare for writing the Canadian exams while familiarizing themselves with the Canadian health care system. All of these factors make for an exciting and diverse group of enthusiastic trainees.

Fellows were once again well represented at Shields Day. The following fellows won awards at Shields Day: Dr. Waleed Soliman and Dr. Zoe Unger. A number also presented this year at the CAS annual meeting held in St. John’s, Newfoundland and Labrador.

The success rate amongst Cardiac Anesthesia fellows who took the TEE exam was once again 100%. This attests to all the excellent teaching that happens at the TGH and SMH sites from our dedicated cardiac anesthesia colleagues.

The fourth annual holiday dinner for all the fellows that takes place after the Mendelson Lecture was a huge success again this year, with over 50 people attending. Fellows and their partners are all invited to a dinner after the Mendelson Lecture. This year, Dr. Paul Barash, the Mendelson Lecturer was the guest of honor. We hope to continue this tradition where all fellows can meet and potentially make career long international connections.

One of the metrics of the program’s success is how many fellows move onto consultant positions, in Canada and around the world.

This was a particularly good year, as three recent OB fellows from Mount Sinai all got prestigious OB anesthesia consultant positions in London, UK!

### Professors’ Rounds for Fellows 2013-2014

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 30</td>
<td>Update on malignant hyperthermia – Are Canadians hot?</td>
<td>Dr. Sheila Riazi</td>
</tr>
<tr>
<td>October 31</td>
<td>Bedside ultrasound in acute care medicine – interactive clinical cases.</td>
<td>Dr. Peter Steinmetz (McGill)</td>
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<tr>
<td>November 29</td>
<td>Game changers – The 20 most important articles ever published in the specialty.</td>
<td>Dr. Paul Barash</td>
</tr>
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<td>January 27</td>
<td>Strengths &amp; weaknesses of protocols and guidelines.</td>
<td>Dr. Brian Kavanagh</td>
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<tr>
<td>March 31</td>
<td>Anesthesics &amp; metabolism: from brain development to cancer metastasis.</td>
<td>Dr. Jason Maynes</td>
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<td>May 12</td>
<td>Morbidly obese patients: a challenge for everyone?</td>
<td>Dr. Frances Chung</td>
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<td>June 2</td>
<td>Long term memory loss – the unavoidable cost of anesthesia??</td>
<td>Dr. Beverley Orser</td>
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<td>Anesthesia Fellows 2013-2014</td>
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<tr>
<td><strong>The Hospital for Sick Children</strong></td>
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<td>Balakrishnan, Sindu ...........India</td>
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<td>Bunbury, Dean ..................Australia</td>
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The Continuing Education Committee for the Department of Anesthesia is comprised of representatives from each of the teaching hospitals, the directors of CME courses, and community hospital representatives. The Committee meets four times a year to discuss, plan and organize a number of continuing education initiatives. The committee endeavors to ensure that most CE activities qualify for University of Toronto sponsorship and are accredited learning activities.

### Course Development

The committee supervises the Toronto Interactive Anesthesia Meeting under the direction of Dr. Elizabeth AuYeung. This two-day course provides a combination of lectures, workshops and problem-based learning discussions for both Fellowship and GP Anesthetists. In 2014 this course will be directed by Dr. Adriaan Van Rensburg.

### Course Sponsorship

The CE Committee aids in the development and accreditation of ongoing CE courses produced by the U of T Department of Anesthesia.
**Anesthesia CME courses for July 2013-June 2014 include:**

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<td>Oct 4-6, 2013</td>
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<td>Oct 5, 2013</td>
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<td>Oct 18, 2013</td>
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<td>Nov 1-2, 2013</td>
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<td>Nov 2-3, 2013</td>
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<td>Nov 4-6, 2013</td>
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<td>Pediatric Anesthesia</td>
<td>Nov 8-10, 2013</td>
<td>Elizabeth McLeod</td>
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<td>Mendelsohn Lecture</td>
<td>Nov 29, 2013</td>
<td>Elizabeth AuYeung</td>
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<td>Toronto Anesthesia Practice</td>
<td>Nov 30-Dec 1, 2013</td>
<td>Elizabeth AuYeung</td>
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<td>Advanced Ultrasound for Pain Medicine</td>
<td>Feb 22-23, 2013</td>
<td>Philip Peng</td>
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<td>St. Michael’s Hospital Echocardiography Preceptorship</td>
<td>Mar 17-21, 2014</td>
<td>Han Kim</td>
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<td>Toronto Anesthesia Symposium</td>
<td>Apr 13-14, 2014</td>
<td>Peter Slinger</td>
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<td>Annual Shields Research Day</td>
<td>May 9, 2014</td>
<td>Zeev Friedman</td>
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<td>International Symposium on Ultrasound for Regional Anesthesia</td>
<td>Jun 21-24, 2014</td>
<td>Vincent Chan</td>
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**Future Anesthesia CME Courses Include:**

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<td>RCPSC Simulation Summit</td>
<td>Sept 11-13, 2014</td>
<td>Jordan Tarshis</td>
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<tr>
<td>St. Michael’s Hospital Anesthesia Echocardiography Preceptorship</td>
<td>4-day program, quarterly</td>
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<td>Regional Anesthesia Mini Workshops</td>
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<tr>
<td>Controversies in Perioperative Medicine</td>
<td>May, 2015</td>
<td>Mark Friedlander</td>
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**Web-Based Learning:**

1) **CME Online Anesthesia Rounds**

Developed by Sharon Davies (Mount Sinai Hospital), this program has grown to 17 educational modules. Each of the modules has been accredited for Section 3 RCPSC credits. In 2013-2014, 792 modules were completed. These modules can be accessed through the U of T Anesthesia Department website 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 www.ThoracicAnesthesia.com. This simulator has been accredited by the University of Toronto CEPT Department for CME credits.
Our Faculty Development Day provides another forum at which our faculty may network

Our aim is to plan and implement various 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 including but not limited to teaching, career planning, leadership and academic promotion.

The members of the Faculty Development committee for the period 2013-2014:
MARTIN VAN DER VYVER (Committee Chair)
SUSAN LILKER (St. Joseph’s Health Care Centre)
NICK LO (St. Michael’s Hospital)
CLYDE MATAVA (The Hospital for Sick Children)
CLAIRE MIDDLETON (Toronto General Hospital)
DAVID MCKNIGHT (Vice Chair, Education, Department of Anesthesia)
MARTHA O’ DRISCOLL (Sunnybrook Health Sciences Centre)
SHEILA RIAZI (UHN-Toronto Western Hospital)
ERIC YOU TEN (Mount Sinai Hospital)

The annual Faculty Development Day was held on November 11, 2013 at the Chestnut Centre in downtown Toronto. The goals of Faculty Development Day are to:
- Improve teaching and other professional skills that faculty require;
- Provide a platform to present research and innovations in the field of Education or Creative Professional Activities; and,
- Recognize teaching excellence.
With over 100 participants each year, 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 2013 was arranged by the following planning committee members:
- MARTIN VAN DER VYVER (Chair)
- SHEILA RIAZI and CLYDE MATAVA (Sub-Committee Chairs, arranging scientific sessions and small-group sessions respectively)
- CRAIG DANIELS (Business Manager, Department of Anesthesia)
- GARY CRONIN, JENNIFER MORRIS (web and administrative support)
- DR. VIREN NAIK from University of Ottawa gave the keynote presentation titled: “Competence by Design: Excellence through the Continuum’ ... Times are Changing”
- Is it hot in here? Is your OR an incubator for helping learners towards adaptive expertise (DR. MARIA MYLOPOULOS)
- Dr. Naik made the case for Competency based residency education and is hopefully the first of many opportunities our faculty will have to reflect and debate this issue which will have far reaching implications for the way we teach residents in the foreseeable future.
- Competency assessment – facilitating change through leadership and best practice (DR. VIREN NAIK)
- Debriefing: from simulation to reality and back again (DR. TOBIAS EVERETT and DR. ELAINE NG)
- The lecture re-imagined – 9 words you need to know for a more effective presentation (DR. RICK PENCINER)
- The award for best oral presentation was awarded to DR. AHTSHAM NIAZI for his presentation on “Telesimulation: An Effective and Feasible Method to Teach Ultrasound-Guided Regional Anesthesia Remotely”
- DR. ANUJ BHATIA was awarded the prize for the best poster presentation on the topic “Development of an Integrated Online Database for Acute Pain Management Services at a Teaching Hospital.”
Other events organized by the Faculty Development committee:

A late afternoon workshop on Senior Promotions were held to provide guidance and wisdom and covered the administrative process, the use of WebCV and some insights gained by previous successful applicants **DRS. JEFF WASSERMAN** and **MAX MEINERI**. A fruitful QA period that also included the chair of the departmental promotions committee concluded the event.

**Career Development** was the focus of another workshop held for fellows.

Being innovative in the field of teaching with technology is another area where we would like to support faculty and build networks. A group of very talented anesthesiologists were brought together to meet software developers to provide to a forum to share ideas during an event called ‘Innovation in Anesthesia – Application design networking’ organized by **DR. CLYDE MATAVA**.

A joint Faculty development event for part-time faculty affiliated with the Mississauga Academy of Medicine was held in February 2014. 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.
Research Programs

Report from Dr. David Mazer, Vice Chair, Research

This has been another outstanding year for our department in terms of research. Thanks to the enormous talent and dedication of our faculty, staff and trainees, we have maintained our profile as the leading Department of Anesthesia in Canada and among the top in the world. Members of our department continue to excel in the quality and number of high impact publications, grants, invited lectures and visiting professorships which are detailed elsewhere in this annual report, and which demonstrate our Department’s important contributions the generation and dissemination of new knowledge related to anesthesia, critical care and perioperative medicine.

We are immensely proud of our outstanding faculty and trainees who continue to advance our profession

One of the great strengths of our department is our ability to collaborate with a variety of people within and outside the Department and University, which is demonstrated in the social network analysis in the figure below. This type of analysis identifies an instance of collaboration whenever two or more individuals are listed as co-authors on a single paper. Each researcher is represented by a node, and each co-published paper is represented by a line. The size of each node is correlated to the number of publication citations and the width of each line is correlated to the number of collaborations between the connected nodes. Different colors are used to denote the authors’ affiliations. In this analysis, our department compares quite favorably with other similar sized departments in terms of numbers of collaborations and percent with international collaborators.

The department continues to place a focus on research training, fostering research activity among the next generation of anesthesiology investigators and physician-scientists. The scope of our trainee research was profiled at yet another highly successful annual Shield’s Research Day. In addition, we are seeing growth of research activity both in and beyond the department’s usual areas of research strengths and our national and international research funding continues to grow as does the funding of larger scale projects that encompass larger investigative teams.

Successful research requires significant effort, energy and support. We are very grateful for all the contributions from our faculty, trainees, staff, research assistants and hospitals to make this such a milestone year for research in our department.
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The 35th Annual Shields Research Day was held this year before a hall packed (as usual) with members of the University of Toronto Anesthesia Department. It featured a variety of cutting-edge research projects presented by the department trainees. 62 abstracts were submitted this year. These were scored by an abstract committee with the top 18 presented in the oral presentation sessions. Poster sessions were conducted throughout the day with the presenters available for discussion and questions about their projects.

The Annual Shields Day lecture was given by DR. ALEX EVERS. It highlighted new methods and new targets for anesthetic binding sites in the brain and shared new insights regarding this hot topic. This was followed by the Vice Chair of Research Selection session which features prominent research from the Anesthesia Department faculty. This year the lecture was presented by DR. FRANCES CHUNG which discussed the STOP-Bang Questionnaire, OSA and Anesthesia.

The day was concluded with the award presentation in which 10 awards were handed out for different areas of excellence including clinical excellence, teaching and research as well as trainees travel awards and awards for the winning presentations.

I’d like to thank the Anesthesia Department staff for their hard work in organizing this day and making it the success it is. We all enjoyed the day and no one went home hungry either. See you at the 36th Annual Shields Research Day.
Peer-Reviewed Publications


AXELROD DM, KLUCKMAN D, WRIGHT GE, CHANG A, BRONICKI R, ROTH SJ. Board Members of the Pediatric Cardiac Intensive Care Society.


BELL JD, THOMAS TC, LASS EH, AI J, WAN H, LIFSHEIT J, BAKER AJ, MACDONALD RL. Platelet-mediated changes to neuronal glutamate receptor expression at sites of microthrombosis following experimental subarachnoid hemorrhage. *J Neurosurg* 121:1424-1431, 2014


BONIN RP, ZUREK AA, BAYLISS DA, ORSER BA. Hyperpolarization-activated current (Ih) is reduced in hippocampal neurons from Gabra5-/- mice. *PLoS One* 8:e58679, 2013


GOLDENBERG NM, HARE GM. From the journal archives: understanding the mechanism(s) regulating hypoxic pulmonary vasoconstriction: how an early study has led to novel translational approaches. Can J Anaesth 61:195–199, 2014

GOLDENBERG NM, STEINBERG BE, LEE WL, WIJEYSUNDERA DN, KAVANAGH BP. Lung protective ventilation in the operating room: time to implement? Anesthesiology 121:184–188, 2014


 which promote survival.

ARSDELL GS, HOLTBY H.

ALGHAMDI AA, CALDARONE A, BRAUN M, RYDALL A, APPOO.

Health of Palestinians, water and coastal aquifer in Gaza. The Lancet 383:1207, 2014

HAMILTON BC, HAYES J, BORGES HARE GM.


HAMILTON J, HONJO O, HALPERN S, REISMAN AL.


HARE GM.

Tolerance of anemia: understanding the adaptive physiological mechanisms which promote survival. Transfus Apher Sci 50:10-12, 2014

HARRIS M, CHUNG F.


HAYES J, BORGES B, ARMSTRONG D, SRINIVASAN I.


HENRIKSEN AH, RINGSTED C.

Medical students' learning from patient-led teaching: experiential versus biomedical knowledge. Adv Health Sci Educ Theory Pract 19:7-17, 2014

HOLTBY HM.


HU R, MAZER CD, TOUSIGNANT C.


HU X, RAMADEEN A, LAURENT G, SO PP, BAIG E, HARE GM, DORIAN P.


HURLBURT L, ROSCOE A, VAN RENSBURG A.


HEDSTRUP C, SAWHNEY M, NIX C, KISS A.


HOCHMAN JR, DAVIS AM, ELKAYAM J, GAGLIESE L, HAWKER GA.


JACKLIN T, DUERR J, HUANG H, RAFII M, BEAR CE, RATJEN F, PENCHARZ P, KAVANAGH BP, MALL MA, GRASEMANN H.


JANKOVIC D, PENG P, VAN ZUNDERT A.


JENSEN K, RINGSTED C, HANSEN HJ, PETERSEN RH, KONGE L.


JEVTOVIC-TODOROVIC V, ABSALOM AR, BLOMGREN K, BRAMB Brink A, SMUELOFF A, GRISARU-GRAVNOVSKY S, GOZAL Y, EINAV S.


JOSHI GP, AHMAD S, RIA W, ECKERT S, CHUNG F.


JUNGER WG, RHIND SG, RIZOLI SB, CUSCHIERI J, BAKER AJ, SHEK PN, HOYT DB, BULGER EM.


KANOTRA SP, PROPS EJ, LUGIBUEHL I, CAMPISI P, FISHER JA, FORTE V.

Assessment of aspiration risk from dynamic modulation of endotracheal tube cuff pressure. Laryngoscope 124:1415-1419, 2014


Medial open transversus


symptoms and health-related quality of life: A meta-analysis. BMC Cardiovasc Disord 14:14, 2014


NANDHAKUMAR A, SILVERMAN GL. Acute hypoxemia in a parturient with primary ciliary dyskinesia following the administration of intravenous oxytocin: a case report. Can J Anaesth 60:1218-1221, 2013


NISSIM R, RODIN G, SCHIMMER A, MINDEN N, KIM V H.D, UPTON J, ROIFMAN CM. Mutations in tetratricopeptide repeat domain 7A (TTC7A) are associated with combined immunodeficiency with dendriform lung ossification but no intestinal atresia. LymphoSign Journal 1:10-26, 2014


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Tsang W, Meineri M, Hahn RT, Veronesi F, Shah AP, Osten M, Nathan S, Russo M, Lang RM, Horlick EM. A Department of Anesthesia, University of Toronto, 2013 - 2014 41

**TRANSFUS MED REVIEW**

**CARDIOVASCULAR IMAGING**

**Can J Anaesth**

**Interact Cardiovasc Thorac Surg**


**42 Department of Anesthesia, University of Toronto, 2013 - 2014**

**Eur Heart J**

**Circuits**

**Extrem Physiol Med**

**Pediatr Exerc Sci**

**Pediatr Pulmonol**


**WHISSELL PD, ROSENZWEIG S, LECKER I, WANG DS, WOJOTOWICZ JM, ORSER BA. γ-aminobutyric acid type A receptors that contain the δ subunit promote memory and neurogenesis in the dentate gyrus. Ann Neurol 74:611-621, 2013**

**WHISSELL PD, ENG D, LECKER I, MARTIN LJ, WANG DS, ORSER BA. Acutely increasing δGABA(A) receptor activity impairs memory and inhibits synaptic plasticity in the hippocampus. Front Neural Circuits 7:146, 2013**

**WHITE GE, WELLS GD. Cold-water immersion and other forms of cryotherapy: physiological changes potentially affecting recovery from high-intensity exercise. Extrem Physiol Med 2:26, 2013**


**WOOD MS, OAKES ND, ROBERTS M, GRASSMANN C. Accidental underdosing of intrathecal diamorphine. Anaesthesia 68:977-978, 2013**


**YOSHIDA T, TORSANI V, GOMES S, DE SANTIS RR, BERALDO MA, TUCCI MR, ZIN WA, KAVANAGH BP, AMATO MB. Spontaneous effort causes occult pendelluft during mechanical ventilation. Am J Respir Crit Care Med 188:1420-1427, 2013**


**ZHONG T, OJHA M, BAGHER S, BUTLER K, O’NEILL AC, McCLUSKEY SA, CLARKE H, HOFER SO, SRINIVAS C. Transversus abdominis plane block following abdominally based breast reconstruction: study protocol for a randomized controlled trial. Trials 14:424, 2013**

**ZHONG T, OJHA M, BAGHER S, BUTLER K, O’NEILL AC, McCLUSKEY SA, CLARKE H, O’NEILL AC, NOVAK C, HOFER SS. Abstract 11: The analgesic efficacy of the transversus abdominis plane (TAP) block on the abdominal donor site following autologous...**


Non Peer-Reviewed Publications


MARIANO ER, PERLAS A. Adductor canal block for total knee arthroplasty: the perfect recipe or just one ingredient? Anesthesiology 120:530-532, 2014

PARADIS, E. Sociology is a martial art: a commentary on wacquant’s homines in Extremis. Body & Society 20:100-105, 2014


Chapters in Books


VEGAS A. Transesophageal Echocardiography Exam Study Notes. Published by Department of Anesthesia and Pain Medicine, University Health Network, Toronto General Hospital. Vegas A (ed.), Toronto, 2013


**Apps**


**Invited Lecturers**

**ABDALLAH, F**
- Canadian Anesthesiologists Society (CAS) Annual Meeting, St. John’s, Nova Scotia, June 2014
  “Can ultrasound scan of the airway be used to predict difficulty of airway management? A computerized tomography validation study”
- International Anesthesia Research Society (IARS) Annual Meeting, Montreal, Quebec, May 2014
  “Can ultrasound scan of the airway be used to predict difficulty of airway management? A computerized tomography validation study”
- University of Toronto, Department of Anesthesia, Research Shield's Day, Toronto, Ontario, May 2014
  “Impact of paravertebral blocks on the six-month risk of neuropathic pain following breast tumor resection: a randomized controlled trial”
- Canadian Anesthesiologists' Society (CAS) Annual Meeting, St. John’s, Newfoundland, June 2014
  “Basic ultrasound-guided brachial plexus blocks”
- International Symposium on Ultrasound Regional Anesthesia and Pain Medicine (ISURA) Annual meeting, St. Michael's College, Toronto, Ontario, June 2014
  “Ultrasound-guided abdominal wall blocks”
- American Society of Regional Anesthesia Annual Meeting (ASRA), Chicago, Illinois, April 2014
  “Ultrasound-guided rescue blocks of the upper extremity”
- Advanced Workshop for Ultrasound Guided Nerve Blocks, Department of Anesthesia, University of Toronto, Toronto, Ontario, November 2013
  “Ultrasound guidance for neuraxial blocks”
- Advanced Workshop for Ultrasound Guided Nerve Blocks, Department of Anesthesia, University of Toronto, Toronto, Ontario, November 2013
  “Ultrasound-guided truncal blocks”
- Toronto Interactive Anesthesia, University of Toronto, Department of Anesthesia, Toronto, Ontario, November 2013
  “Ultrasound for neuraxial blocks”
- Toronto Anesthesia Symposium, Toronto, Ontario, April 2014
  “The use of spinal ultrasound to facilitate spinal and epidural blockade”
- State University of New York, Buffalo, New York, April 2014
  “Current applications of ultrasound in obstetric anesthesia”
- Spinal ultrasound for neuraxial blocks”
- Society of Obstetric Anesthesia and Perinatology (SOAP) 46th Annual Meeting, Toronto, Ontario, May 2014
  “Ultrasound workshop for obstetric anesthesia”
- XII Latin American Congress of Regional Anesthesia and Pain – LASRA, Medellin, Colombia, May 2014
  “Hypotension associated to spinal anesthesia in obstetrics: to prevent or treat”
  “Neuraxial anesthesia during labor: what are the options?”
  “Neuraxial anesthesia for urgent cesarean delivery: state of the art”
  “Fast or not fast: how to objectively measure with ultrasonography”
- Toronto Interactive Anesthesia, University of Toronto, Department of Anesthesia, Toronto, Ontario, November 2013
  “Ultrasound guided sciatic and ankle block”

**AWAD, I**
- University of Toronto seminar for PGY2. Sunnybrook Hospital, Toronto, Ontario, November 2013
  “Ultrasound guided sciatic and ankle block”
- Innovation and TBI: From Research to Clinical Practice, The Carlu, Toronto, Ontario, June 2014
  “Modelling blast induced brain injury in the Lab: what we have learned?”
- Critical Care Canada Forum, Toronto, Ontario, November 2013
  “Where are we now?”
  “Approach to coma”
  “Why mechanisms of injury matter”
- 7th Annual Canadian Critical Care Review, Mississauga, Ontario, June 2013
  “Neurological critical care”

**BAKER, A**
- Obstetric Anesthesia Conference, Mount Sinai Hospital and University of Toronto, Toronto, Ontario, September 2013
  “General anesthesia for cesarean delivery”
- Toronto Interactive Anesthesia, University of Toronto, Department of Anesthesia, Toronto, Ontario, November 2013
  “Ultrasound guided peripheral nerve blocks”
  “Postpartum hemorrhage: new science and outstanding questions: does pretreatment with oxytocin reduce the efficacy of subsequent doses?”

**BALKI, M**
- Toronto Interactive Anesthesia, University of Toronto, Department of Anesthesia, Toronto, Ontario, November 2013
  “Ultrasound guided peripheral nerve blocks”
- Toronto Interactive Anesthesia, University of Toronto, Department of Anesthesia, Toronto, Ontario, November 2013
  “Ultrasound guided peripheral nerve blocks”
- XII Latin American Congress of Regional Anesthesia and Pain – LASRA, Medellin, Colombia, May 2014
  “Hypotension associated to spinal anesthesia in obstetrics: to prevent or treat”
  “Neuraxial anesthesia during labor: what are the options?”
  “Neuraxial anesthesia for urgent cesarean delivery: state of the art”
  “Fast or not fast: how to objectively measure with ultrasonography”
- The Toronto Anesthesia Symposium, Toronto, Ontario, April 2014
  “Maternal cardiac arrest. Old problems new solutions”
- 46th Annual Society for Obstetric Anesthesia and Perinatology Meeting, Toronto, Ontario, May 2014
  “The use of ultrasound in obstetric anesthesia: vascular access, neuraxial anesthesia, TAP block and gastric assessment workshop”
- 46th Annual Society for Obstetric Anesthesia and Perinatology Meeting, Toronto, Ontario, May 2014
  “Gertie Marx research and education funding”
- Canadian Anesthesiologists’ Society Annual Meeting, St. John’s, Newfoundland and Labrador, June 2014
  “Workshop – epidural ultrasound”

**Bhatia, A**
- Ontario Medical Association – Anesthesiology division, Niagara Falls, Ontario, September 2013
  “Pain and palliative care”
- Division of Physiatry, University of Toronto, Toronto, Ontario, November 2013
  “Interventional procedures for neck pain”
- Ontario Pharmacists Association, Toronto, Ontario, November 2013
  “Anesthesia interventions for chronic non-cancer pain”
- Division of Palliative Care, University of Toronto, Toronto, Ontario, December 2013
  “Interventional pain management in palliative care”
- Department of Anesthesia and Pain Management, University Health Network, Toronto, Ontario, December 2013
  “Ultrasound guidance for hip, knee, low back and pelvic pain procedures”
- Department of Anesthesia and Pain Management, University Health Network, Toronto, Ontario, February 2014
  “Ultrasound guidance for procedures to relieve pelvic pain ad occipital neuralgias”
- Interventional Special Interest Group of Canadian Pain Society, Vancouver, British Columbia, April 2014
  “Radiofrequency ablation of nerve supply to lumbar facet joints”
- Department of Anesthesia and Pain Management, McMaster University, Hamilton, Ontario, April 2014
  “Outpatient intravenous ketamine infusions for CRPS and RNPS”

**Brown, S**
- 26th Pediatric Anesthesia Conference, Toronto, Ontario, November 2013
  “Medical marijuana for pediatric pain: a good idea?”
- 26th Pediatric Anesthesia Conference, Toronto, Ontario, November 2013
  “Round table discussion: chronic pain”
- Society for Pediatric Anesthesia, San Francisco, California, October 2013
  “Medical marijuana for pediatric pain: PRO-CON debate”

**Brull, R**
- International Symposium of Ultrasound for Regional Anesthesia (ISURA), Toronto, Ontario, June 2014
  “Regional anesthesia must be part of breast surgery: a PRO-CON debate”
- Basic ultrasound course for regional anesthesia”

**Byrick, R**
- Ontario Medical Association – Anesthesia Section Meeting, Niagara Falls, Ontario, September 2013
  “Update: out of hospital premises inspection in Ontario”
- Annual Society for Pain and Palliative Care, University of Toronto, Toronto, Ontario, November 2013
  “Quality improvement in pediatric pain management”
- 26th Pediatric Anesthesia Conference, Department of Anesthesia, The Hospital for Sick Children, University of Toronto, Toronto, Ontario, November 2013
  “Improving pain outcomes after ambulatory surgery”
- International Forum for Pediatric Pain, White Point Beach, Nova Scotia, October 2013
  “Peri/postoperative pain management”
- First Annual Pediatric Wound Care Symposium 2013, Toronto, Ontario, November 2013
  “Pain management in wound care”
- IGT Rounds, The Hospital for Sick Children, Toronto, Ontario, November 2013
  “Chronic pain matters: role of interventional therapy”
- Institute on Advancing Pain Across the Life Span, Faculty of Nursing, University of Toronto, Ontario, November 2013.
  “Complex challenges of acute pain in the presence of persistent pain”
- Faculty of Nursing, University of Toronto, Ontario, October 2013
  “Pain management strategies: complex challenges for acute pain in the presence of chronic pain”
- Post Anesthesia Care Unit, The Hospital for Sick Children, Toronto, Ontario, September 2013
  “Improving pain outcomes in PACU”
- PACU Manager and Educator, Toronto, Ontario, September 2013
  “Quality improvement – improving pain outcomes in PACU”

**Carvalho, J**
- 11th Annual Obstetric Anesthesia Conference and Workshop, Mount Sinai Hospital, Toronto, Ontario, September 2013
  “Hands-on workshop: ultrasound facilitated spinals and epidurals in obstetrics”
- “Obstetric anesthesia practice update”
- “Ultrasound assisted spinals and epidurals in obstetrics”
- VIII JONA – Jornada de Obstetricia, Neonatologia e Anesthesiologia, Hospital e Maternidade Sao Luiz, Sao Paulo, Brazil, October 2013
  “Postpartum analgesia: present and future”
- “Use of ultrasound in obstetric anesthesia: spinal assessment and other applications”
- 2013 Annual Meeting of the American Society of Anesthesiology, San Francisco, California, October 2013
  “Ultrasound-assisted neuraxial placement and gastric volume assessment”
- Toronto Interactive Anesthesia, University of Toronto, Toronto, Ontario, November 2013
  “Neuraxial anesthesia in pregnant women with neurological conditions: one size does not fit all”
- 67th Annual Postgraduate Assembly in Anesthesiology, sponsored by the New York State Society of Anesthesiologists, New York, December 2013
  “Hands-on cadaver, ultrasound and live model regional anesthesia”
- 10th Obstetrics Malpractice: A Survival Guide for 2024,
organized by the Department of Obstetrics and Gynaecology, University of Toronto, Toronto, Ontario, January 2014
“Oxytocin: the most dangerous drug in obstetrics”

• Congresso de Atualizacaode Anestesiologia USP 2014, organized by the Department of Anesthesia University of São Paulo, São Paulo, Brazil, March 2014
“Use of ultrasound for neuraxial anesthesia”

• Tasmanian Annual Scientific Meeting, organized by the Tasmanian Society of Anesthesia and the Australian and New Zealand College of Anaesthetists, Hobart, Australia, March 2014
“The present state and future direction of obstetric anesthesia: where to from here, including future directions”

“Use of uterotonicsin obstetric anesthesia: review of where we are at and future directions”

“Application of ultrasound in obstetric anesthesia: a global perspective”

“Applied spinal anatomy and ultrasonography”

• The Toronto Anesthesia Symposium, University of Toronto, Toronto, Ontario, April 2014
“Obstetric anesthesia journal club: the year in review”

“Spinal ultrasound”

• 48th Jornada de Anestesiologia do Estado de Sao Paulo and 11th Congresso Paulista de Anestesiologia, Organized by the Society of Anesthesia of the State of Sao Paulo, São Paulo, Brazil, May 2014
“Use of uterotonicsin obstetric anesthesia: future perspectives”

“Current state and future perspectives in obstetric anesthesia”

“Obstetric anesthesia journal club: the year 2013 in review”

“Postdural puncture headache”

“Use of ultrasound in obstetric anesthesia”

“Labor analgesia – lunch with experts”

“Spinal-induced hypotension: prevention or treatment – lunch with experts”

• 46th Annual Meeting of the Society for Obstetric Anesthesia and Perinatology, Toronto, Ontario, May 2014
“Getting new moms ready to rock in the postpartum: obstetric anesthesia beyond labor and delivery”

“The use of ultrasound in obstetric anesthesia: vascular access, neuraxial anesthesia, TAP block and gastric assessment workshop”

CHAN, V

• American Society of Anesthesiologists Annual Meeting, San Francisco, California, October 2013
“What has ultrasound taught us?”

“Peripheral nerve blocks: ultrasound simulation and stimulation workshop”

• 19th Annual European Society of Regional Anesthesia – Espana, Santander, Spain, October 2013
“New trends in regional anesthesia”

“Learning how to use ultrasonography – should there be accreditation?”

“Benefits of regional anesthesia on global surgical outcomes”

“Sonography and computed tomography as imaging tools – how to match information”

“Spinals in patients with difficult back conditions”

• 4th Annual Ultrasound-Based Regional Anesthesia Conference, New York, November 2013

“Ultrasound principles: probe ergonomics, sonoanatomy and knobology”

“Lower extremity/sciatic, femoral, adductor canal, saphenous workshop”

• Department of Anesthesiology, Medical College of Wisconsin, Milwaukee, Wisconsin, January 2014
“Perioperative use of ultrasound for anesthesia practice”

• 16th Annual Rural Anesthesia for GP Anesthesiologists, Banff, Alberta, January 2014
“Complications of regional anesthesia and other pearls”

“Ultrasound guided regional anesthesia workshop”

• 14th Asian Australasian Congress of Anesthesiologists, Auckland, New Zealand, February 2014
“Does regional anesthesia change outcomes?”

“Minimum effective local anesthetic volume for peripheral nerve block”

“How low can you go?”

“Regional anesthesia and anticoagulation”

“Training and education in Ultrasound Guided Regional Anesthesia (UGRA): the Canadian experience”

• Cleveland Clinic, Cleveland, Ohio, March 2014
“Perioperative ultrasound application for anesthesia practice”

• 5th Jishuitan Orthopedics Forum, Beijing, China, April 2014
“Complications of regional anesthesia”

• 39th Annual Regional Anesthesiology and Acute Pain Medicine Meeting, American Society of Regional Anesthesia and Pain Medicine, Chicago, Illinois, April 2014
“Ultrasound is the gold standard for peripheral nerve blockade”

“Ultrasound-guided continuous peripheral nerve block workshop”

“Popliteal, saphenous and ankle workshop”

“Infraclival ar & axillary brachial plexus workshop”

• International Anesthesia Research Society, Montreal, Quebec, May 2014
“Advanced ultrasound guided nerve block workshop”

“In vivo workshop in pigs”

“Resident regional ultrasound guided workshop”

CHIN, KJ

• European Society of Regional Anesthesia and Pain Therapy, Glasgow, United Kingdom, September 2013
“Refresher course: updates in ultrasound-guided regional anesthesia”

“ASRA: who should provide accreditation?”

“Live demonstration: spinal sonoanatomy”
American Society of Anesthesiologists Annual Meeting, San Francisco, California, October 2013

“Current controversies in regional anesthesia: neuraxial imaging should be routinely used for spinal and epidural anesthesia: PRO”

“Regional anesthesia dilemmas due to medical disease: total hip arthroplasty in prior spine surgery and failed back syndrome”

“Ultrasound for regional anesthesia. Past, present, and future: ultrasound and neuraxial anesthesia”

Department of Anesthesiology, Queen’s University, Kingston, Ontario, November 2013

“Departmental grand rounds: updates on evidence-based outcomes in ultrasound-guided regional anesthesia”

“Resident core program: clinical pearls for common ultrasound-guided peripheral nerve blocks”

John Hammond Department of Anesthesia, East Surrey Hospital, Redhill, Surrey, United Kingdom, November 2013

“Clinical pearls for common blocks”

“Ultrasound-guided neuraxial and paravertebral blockade”

“Anatomy lectures and cadaver workshops”

Dutch Association for Regional Anesthesia (DARA) – ESRA Nederland Symposium, Heeze, Netherlands, January 2014

“The use of ultrasound for thoracic and lumbar epidural blocks”

“The use of ultrasound for thoracic paravertebral blocks”

“Ultrasound-guided neuraxial block in patients with difficult spines”

“Thoracic paravertebral blocks: indications, efficacy, and outcomes”

“Neuraxial sonoanatomy workshop: epidural and paravertebral”


“Comprehensive truncal-paravertebral workshop”

4th Annual Ultrasound-Guided Regional Anesthesia Cadaver Course, Penn State Hershey College of Medicine, Hershey, Pennsylvania, May 2014

“Ultrasound-guided regional anesthesia workshop”

“Sonoanatomy related to thoracic and lumbar spine”

CHUNG, F

Vanderbilt University Hospital, Nashville, Tennessee, September 2013

“Does size matter: perioperative considerations of morbidly obese patients”

Royal College McLaughlin-Gallie Visiting Professor, Department of Anesthesia, University of Newfoundland, St. John’s, Newfoundland and Labrador, September 2013

“Does size matter: perioperative management of morbidly obese patients”

“Screening and perioperative management of obstructive sleep apnea patients”

Royal College McLaughlin-Gallie Visiting Professor, FMC Sleep Centre – Department of Pulmonary Medicine, Department of Anesthesia, Calgary, Alberta, September 2013

“Does size matter: perioperative management of morbidly obese patients”

“STOP-Bang questionnaire: screening for obstructive sleep apnea”

One death is too many. Should we be more aware of patients with obstructive sleep apnea?”

American College of Chest Physicians, Chicago, Illinois, October 2013

“Identifying and preparing obstructive sleep apnea patients preoperatively”

United Christian Hospital, Kwan Tong, Kowloon, Hong Kong, December 2013

“Perioperative management of morbidly obese patients”

“Perioperative pathway”

European Society for Perioperative Care of the Obese Patient, Bruges, West-Vlaanderen, Belgium, December 2013

“The STOP-Bang questionnaire: what it is and how to use it”

“Does obstructive sleep apnea increase the rate of postoperative complications and can we avoid this?”

Department of Anesthesiology, Washington University, School of Medicine, St. Louis, Missouri, January 2014

“Obstructive sleep apnea: what anesthesiologist should know?”

Winterlude Symposium, University of Ottawa, Ottawa, Ontario, February 2014

“Diagnosis and management of obstructive sleep apnea”

“Postoperative management of patients with obstructive sleep apnea”

Professor Rounds for Fellows, University of Toronto, Department of Anesthesia, Toronto, Ontario, May 2014

“Morbidly obese patients: a challenge for everyone”

World Anesthesia Convention Network, Vienna, Austria, May 2014

“Should sleep apnea patients be done as outpatients?”

“Should morbidly obese patients be done as outpatients?”

Shield’s Day, University of Toronto, Department of Anesthesia, Toronto, Ontario, May 2014

“STOP-Bang, OSA and anesthesia”

International Anesthesia Research Society meeting, Montreal, Quebec, May 2014

“The effects of surgery and anesthesia on sleep architecture”

“Obstructive sleep apnea: role in inflammation and perioperative approach”

International Anesthesia Research Society Meeting, Montreal, Quebec, May 2014

“Size matters: perioperative management of morbidly obese patients”

Hong Kong Baptist Hospital, Hong Kong, China, June 2014

“Morbidly obese patients: a clinical challenge”

CLARKE, H

Mount Sinai Hospital, Obstetrical Anesthesia Conference, Toronto, Ontario, September 2013

“Identifying women at risk for postoperative pain: how much progress have we made?”

Faculty of Nursing Conference, Toronto, Ontario, November 2013

“Transition from acute to chronic pain”

The Toronto Anesthesia Symposium, Toronto, Ontario, April 2014

“Does your patient need Gabapentin?”

Canadian Pain Society, Quebec City, Quebec, May 2014

“Chronic post-surgical pain: utilizing known predictors to develop preventive treatment strategies”

Wasser Pain Management Centre Nursing Preceptorship Day, Toronto, Ontario, May 2014

“Interventional chronic pain”

COOPER, R

Society for Airway Management Annual Scientific
Meeting and Workshop, Philadelphia, Pennsylvania, September 2013
“Round-table discussion: recording and archiving airway management workshop: video laryngoscopy”

University of Rochester, Canandaigua, New York, October 2013
“Don’t burn your bridges – safe extubation of the difficult airway”
“Tips and tricks in video laryngoscopy”

American Society of Anesthesiologists, San Francisco, California, October 2013
“Debate: management of the patient with an anterior mediastinal mass”
“Basic adult flexible fiberoptic intubation workshop”
“Video laryngoscopy workshop”
“Clinical difficult airway workshop and airway simulation”

Stanford Advanced Airway Management and Fiberoptic Course, Stanford University School of Medicine, Stanford, California, November 2013
“Extubation of the difficult airway”
“Video laryngoscopy”

European Airway Congress, Istanbul, Turkey, December 2013
“Getting more from video laryngoscopy”

Annual Clinical Review, Pinnacle Partners in Medicine, Dallas, Texas, February 2014
“Extubation of the difficult airway; laryngoscopy, past and future – from digital to digital”

Curso Teorico-Practico de Manejo de la via Aerea e Intubacion Dificil, FIDIVO, Valencia, Spain, February 2014
“Debate: the gold standard: flexible bronchoscope vs. video laryngoscopy”

Graduate Seminar Series, Rescue Research, St. Michael’s Hospital, Toronto, Ontario, March 2014
“Laryngoscopy from bedside, roadside or sofa to clinical documentation”

Queen’s University, Kingston, Ontario, March 2014
“Resident seminar: laryngoscopy, past and future”
“Extubation of the patient with a difficult airway”

Otolaryngology, Head and Neck Surgery Grand Rounds, University Health Network, Toronto, Ontario, April 2014
“Otolaryngology, head and neck surgery”

Australia and New Zealand College of Anesthetists: Airway Special Interest Group, Singapore, May 2014
“Extubation of the patient with a difficult airway”
“Debate: airway algorithms are a waste of time”
“Airway workshop”

Australia and New Zealand College of Anesthetists and The Royal College of Surgeons, Singapore, May 2014
“Extubation of the patient with a difficult airway”
“The Royal North Shore Hospital, Sydney, Australia, May 2014
Extubation of the patient with a difficult airway

Verathon Medical (Australia), Sydney, Australia, May 2014
“The gold standard: flexible bronchoscope vs. video laryngoscope. Airway update”

International Anesthesia Research Society, Montreal, Quebec, May 2014
“Airway panel”

European Society of Anesthesiologists, Stockholm, Sweden, May 2014
“Essential knowledge in airway management”
“Training the trainers”

“Airway workshop: video laryngoscopy”

CDX, P

Maternal – Fetal Medicine Division, Mt Sinai Hospital, Toronto, April 2014
“Congenital diaphragmatic hernia”

World Federation of Paediatric Intensive Care Societies, Istanbul, Turkey, April 2014
“Paediatric neurocritical care, the Toronto experience”
“What we wished we had known in 1992!”

Annual Canadian Critical Care Conference, Whistler, British Columbia, February 2014
“How we respond to stressors”
“Too much of a good thing? Is oxygen harmful?”

Credit Valley Hospital, Mississauga, Ontario, February 2014
“Didactic & simulation session”

Acute Care Transport Services (ACTS) Team, The Hospital for Sick Children, Toronto, Ontario, January 2014
“Transport orientation lower airway distress lecture”

Canadian Critical Care Society, Toronto, Ontario, November 2013
“CCCS’s guidelines on the procedure of withdrawal of life sustaining therapy”

Critical Care Alumni Meeting, Toronto, Ontario, November 2013
“Critical care – where are we now?”

Canadian Critical Care Forum, Toronto, Ontario, November 2013
“Weaning and work of breathing”
“Meet the professor – paediatric respiratory failure”
“AC Bryan physiology symposium”
“Obligations for end of life care in ICU”

NPCCC, India, November 2013
“Respiratory support with simulation”
“Advanced intensive care”
“Plenary session lecture”
“Central line associated blood stream infection”
“Improving quality of care”

Oriental Congress of Paediatrics, Shanghai, China, October 2013
“Is oxygen harmful?”

CURLEY, G

Annual Scientific Meeting, College of Anesthetists of Ireland, Dublin, Ireland, May 2014
“Cell therapy for ARDS – ready for clinical translation?”
“The most important research papers of the last 10 years”

Queens University Belfast Symposium on Cell Therapy, Belfast, Ireland, June 2013
“Cell therapy for ARDS – can we make it even better?”

Intensive Care Society of Ireland, Annual Meeting, Dublin, Ireland, June 2013
“Is it possible to repair the injured lung?”

“Optimal dose and mechanism of action of human mesenchymal stromal cell therapy in E.coli induced pneumonia in the rat”

DEVITO, I

Toronto Interactive Conference, Toronto, Ontario, November 2013
“Problem based learning: management of the morbidly obese parturient presenting with placental abruption”

Faculty Development Mississauga Academy of Medicine, University of Toronto, Toronto, Ontario, January 2014
“Optimal dose and mechanism of action of human mesenchymal stromal cell therapy in E.coli induced pneumonia in the rat”
“Common challenges in teaching anesthesia learners in the OR: score it and tell it as it is: assessment of learners and giving effective feedback”

DJAANI, G
- European Society of Anesthetists, Mezhote, Rigas Aprinkis, Latvia, September 2013
- “High risk obstetric patient with valvular heart disease”
- NATA Symposium (supported by Fresenius-Kabi), Porto, Portugal, March 2014
- “Positive effects of intraoperative blood salvage and fat elimination during cardiac surgery”

EVERETT, T
- American Burn Association Annual Meeting, Boston, Massachusetts, March 2014
- “The construction and implementation of a novel post burn pruritus scale for infants and children aged less than five years”
- International Meeting for Simulation in Healthcare, San Francisco, California, January 2014
- “Transcontinental telesimulation: the global proliferation of the managing emergencies in paediatric anaesthesia (MEPA) course”
- 9th Annual Meeting of International MEPA Collaborative, London, United Kingdom, March 2014
- “Managing emergencies in pediatric anesthesia (MEPA) – global expansion of education and research”
- Society of Anaesthetists of the South-West Region, Bristol, United Kingdom, November 2013
- “The evolution of Canadian postgraduate training – letters from Canada”
- Canadian Anesthesiologists Society, St. Johns, Newfoundland and Labrador, June 2014

“Best papers in pediatric anaesthesiology 2013/14 – emergence delirium”
- Canadian Anesthesiologists Society, St. Johns, Newfoundland and Labrador, June 2014
- “Three papers that changed my approach to teaching”
- Royal College of Physicians and Surgeons of Canada Simulation Summit, Vancouver, British Columbia, November 2013
- “Studying interprofessional teams with performance rating tools – to innovate or replicate?”
- Sim-ONE Simulation Expo, Toronto, Ontario, December 2013
- “Do pediatric operating room critical event checklists improve patient safety?”
- University of Toronto, Centre for Quality Improvement and Patient Safety (C-QuiPS), Toronto, Ontario, January 2014
- “Do pediatric operating room critical event checklists improve patient safety?”

GAGLIESE, L
- Annual Meeting of the Canadian Association on Gerontology, Halifax, Nova Scotia, October 2013
- “From community groups to websites: health education and self-management for older people in the community”
- “Development and evaluation of a brief health education intervention about chronic pain for older members of the community”
- The Canadian Cancer Research Conference, Toronto, Ontario, November 2013
- “Cancer pain and aging: towards identifying age-related patterns in adjustment”
- “Pain education for older people in the community”

GARAVAGLIA, M
- Neuroscience Research Rounds, Li Ka Shing Institute, Toronto, Ontario, February, 2014
- “Development of a novel anesthetic protocol for awake craniotomy”
- What’s new in anesthesia – CISEF – Genova, Italia, November 2013
- “Dexmedetomidine: a new approach in neurosurgery”
- Grand Rounds, Anesthesia Department, St. Michael’s Hospital, Toronto, Ontario, October 2013
- “Sleep no more: awake craniotomy in high-risk patient”
- Iran University of Medical Sciences (IUMS), Rasoule-Akrar Hospital – Teheran, Iran, September 2013
- “Dexmedetomidine and scalp nerve blocks for high-risk patients undergoing awake craniotomy”

GARDNER-NIX, J
- Purdue Pharma, Pain Week, Pickering, Ontario, November 2013
- “Mindfulness for chronic pain”
- Centre for Mindfulness Studies, Workshop, Toronto, Ontario, March 2014
- “Mindfulness-based chronic pain management”

GOFELD, M
- 11th International Symposium of Ultrasound in Regional Anesthesia, Pain Medicine and Perioperative Applications (ISURA), Toronto, Ontario, June 2014
- “Overview, patient evaluation and criteria for intervention”
- American Academy of Pain Medicine Ultrasonography (AAPMU), Las Vegas, Nevada, June 2014
- “Ultrasonography in pain medicine. Level III Neurosonology”
- 7th World Congress, World Institute of Pain, Maastricht, Netherlands, May 2014
- “From the surface to the depth: ultrasound in interventional pain therapy”
- 4th Networking World Anesthesia Convention, Vienna, Austria, May 2014
- “Treatment of sacroiliac pain”
- Ontario Medical Association, Physical Medicine and Rehabilitation Section, Toronto, Ontario, April 2014
- “Chronic low back pain: non-specific or misdiagnosed?”
- Interventional Pain Special Interest Group of the Canadian Pain Society, Vancouver, British Columbia, April 2014
- “Treatment options for discogenic pain”
- Department of Anesthesia, Emory University, Atlanta, Louisiana, March 2014
- “Spine sonography”
• American Academy of Pain Medicine Ultrasoundography (AAPMU), Atlanta, Georgia, March 2014
  “Ultrasoundography in pain medicine level I and level II”
• Department of Anesthesia, Emory University, Atlanta, Georgia, February 2014
  “Interventional cancer pain management”
• Cleveland Clinic Foundation, Las Vegas, Nevada, February 2014
  “Management of painful bone metastases; Interventional options for treatment of osteoarthritis”
• American Academy of Pain Management in Ultrasoundography (AAPMU), Tampa, Florida, January 2014
  “Level II spine course”
• WIP Comprehensive Review and Workshop, London, United Kingdom, December 2013
  “Principles of ultrasound and its use in interventional pain; Ultrasound vs Fluoroscopy vs CT”
• Swiss Interventional Pain Society Annual Meeting, Montreux, Switzerland, November 2013
  “Pathophysiology of cancer pain; Chronic low back pain”
• American Academy of Pain Medicine Ultrasoundography (AAPMU), Los Angeles, California, November 2013
  “Ultrasoundography in pain medicine level 4”
• American Academy of Pain Medicine Ultrasoundography (AAPMU), Las Vegas, Nevada, October 2013
  “Level III neuro course”
• Californian Society of Interventional Pain Physicians, Palos Verdes, California, September 2013
  “Ultrasound in pain medicine”
• American Academy of Pain Medicine Ultrasoundography (AAPMU), New Jersey, September 2013
  “Ultrasoundography in pain medicine level 4”
• American Academy of Pain Medicine Ultrasoundography (AAPMU), Las Vegas, Nevada, August 2013
  “Ultrasoundography in pain medicine level 1”
• Dannemiller Foundation, Chicago, Illinois, August 2013
  “Ultrasoundography in pain medicine course”
• American Academy of Pain Medicine Ultrasoundography (AAPMU), Denver, Nebraska, July 2013
  “Ultrasoundography in pain medicine level 4”

GOLDSZMIDT, E
• Society for Obstetric Anesthesia 46th Annual Meeting, Toronto, Ontario, May 2014
  “Ultrasound for vascular access workshop”
• Swiss Interventional Pain Society Annual Meeting, Montreux, Switzerland, November 2013
  “Pathophysiology of cancer pain; Chronic low back pain”
• American Academy of Pain Medicine Ultrasoundography (AAPMU), Los Angeles, California, November 2013
  “Ultrasoundography in pain medicine level 4”
• American Academy of Pain Medicine Ultrasoundography (AAPMU), Las Vegas, Nevada, October 2013
  “Level III neuro course”
• Californian Society of Interventional Pain Physicians, Palos Verdes, California, September 2013
  “Ultrasound in pain medicine”
• American Academy of Pain Medicine Ultrasoundography (AAPMU), New Jersey, September 2013
  “Ultrasoundography in pain medicine level 4”
• American Academy of Pain Medicine Ultrasoundography (AAPMU), Las Vegas, Nevada, August 2013
  “Ultrasoundography in pain medicine level 1”
• Dannemiller Foundation, Chicago, Illinois, August 2013
  “Ultrasoundography in pain medicine course”
• American Academy of Pain Medicine Ultrasoundography (AAPMU), Denver, Nebraska, July 2013
  “Ultrasoundography in pain medicine level 4”

GREENWOOD, E
• Pediatric Anesthesia Conference, Toronto, Ontario, November 2013
  “Round-table discussion on dexametomidine”

HANLON, J
• Peterborough County Medical Society Grand Rounds, Ontario, November 2013
  “Managing chronic pain: pharmacological options”
• Addis Ababa University, Department of Anesthesia, Addis Ababa, Ethiopia, February 2014
  “Acute pain management”
  “Chronic pain management”
  “Interventional pain management”
• American Academy of Pain Medicine Ultrasoundography (AAPMU), Florida, January 2014
  “Ultrasound guided lumbar spine and pelvic injections”

HARE, G
• 14th Asian Australasian Congress of Anaesthesiologists, 2014, Auckland, New Zealand, February 2014
  “When is blood the right fluid? Balancing the risks of anaemia versus transfusion to improve patient outcome”
• Society of Cardiovascular Anesthesiologists meeting, New Orleans, Louisiana, April 2014
  “The experimental link between beta blockade, anemia and stroke”
• Northern Ontario School of Medicine, Sudbury, Ontario, May 2014
  “Patient blood management in cardiac surgery”
• Annual CAS meeting, St. John’s, Newfoundland, June 2014
  “Perioperative myocardial infarction, which β-blocker is more protective?”

HEGGIE, J
• 31st Symposium: Update in Anaesthesiology, Surgery, and Perioperative Medicine, Leipzig Heart Institute, Mt Sinai, Las Vegas, Nevada, October 2013
  “Adult congenital heart disease”
• 10th Annual Perioperative TEE Symposium, Toronto, Ontario, November 2013
  “Interactive session of interesting TEE cases”
• Indian Association of Anesthesiologist Society Annual Congress. Guwahati, India, December 2013
  “Anesthesia for congenital heart disease for non-cardiac surgery”
• Society of Pediatric Anesthesia, Congenital Cardiac Society Annual Meeting, Fort Lauderdale, Florida, March 2014
  “Young adult with failed fontan circulation and symptomatic tachycardia – what is your next move?”
• Minnesota Society of Anesthesiologists, Saint Paul, Minnesota, April 2014
  “The adult with CHD and non cardiac surgery one day symposium and the adult living with pediatric disease”
• Cincinnati Children’s Heart Institute, International Adult Congenital Heart Disease Annual Symposium, Cincinnati, Ohio, May 2014
  “ACHD and common problems in the ICU”
HOLTBY, H
- Paediatric Anaesthesia Conference, Hilton Toronto, Toronto, Ontario, November 2013
  “Assessing new technologies”
- European Society of Pediatric Anaesthesia, Geneva, Switzerland, September 2013
  “CCAN/CCAS satellite, bad bypass”
- Pro-con debate, September 2013
  “A paediatric cardiac anaesthesiologist should conduct all anaesthesia in the cath lab”

HOUSTON, P
- Faculty Development Political Forum, Canadian Anesthesiologists’ Society Annual meeting, June 2014
  “International approaches to maintenance of certification: can we manage maintenance of competence?”
- Canadian Conference on Medical Education, Ottawa, Ontario, April 2014
  “Education innovation – interprofessional education”
- Canadian Conference on Medical Education, Ottawa, Ontario, April 2014
  “Education innovation – faculty development”
- UBC Whistler Anesthesia Summit, Whistler, British Columbia, February 2014
  “Drug shortages”
- CMA Specialist Forum, Ottawa, Ontario, February 2014
  “Drug shortages”
- ACUDA Management Committee, Ottawa, Ontario, February 2014
  “Drug shortages”
- International Cancer Education Conference, Seattle, Washington, September 2013
  “Are consumer health eLibraries appropriate in an Inner city healthcare setting?”

ISAAC, L
- Workshop at International Society of Pediatric Pain, Stockholm, Sweden, June 2013
  “Interventional management of pediatric chronic pain”
- Toronto Anesthesia Practice, Toronto, Ontario, November 2013
  “Pediatric asthma for the anaesthetist small group discussion”
- Toronto Anesthesia Practice, Toronto, Ontario, November 2013
  “Would you cancel this case?”

JADAD, A
- Complementary and Integrative Medicine: Where the Rubber Meets the Road Course, Mayo Clinic, Wisconsin Dells, Wisconsin, July 2013
  “Practicing medicine from the heart”
- Hector Abad Lectureship, Medellin, Universidad de Antioquia, Columbia, August 2013
  “Health and happiness”
- Trillium Health Partners Back to School staff forum, Mississauga, Ontario, September 2013
  “The healthy patient: desirable, achievable and necessary”
- Help the Hospices Conference 2013, Bournemouth, United Kingdom, October 2013
  “Dying healthy and happy: the most important challenge of our time”
- 2014 National Conference for Hoffman La-Roche Ltd. Toronto, Ontario, January 2014
  “Is it possible to be ill and healthy at the same time?”
- Treehouse Talks, Toronto, Ontario, February 2014
  “Living a healthy and happy life until the last breath: our greatest challenge”

KARKOUTI, K
- St. Michael’s Hospital, Patient Blood Management Symposium, Toronto, Ontario, October 2013
  “Improving outcomes with point-of-care hemostasis testing in cardiac surgery”
  “Anemia and its treatments in cardiac surgery”
- University Health Network, Toronto Western Hospital, Surgical Grand Rounds, Toronto, Ontario, November 2013
  “Blood conservation: what do you do when you have the highest transfusion rate in cardiac surgery in Ontario?”
- 32nd Annual Symposium Clinical Update in Anesthesiology, Surgery and Perioperative Medicine. Icahn School of Medicine at Mount Sinai, Atlantis, Bahamas, January 2014
  “Point of care tests in cardiac surgery”
- Department of Anesthesia, Southlake Regional Health Centre, Newmarket, Ontario, February 2014
  “Perioperative blood management”
- Toronto Anesthesia Symposium, University of Toronto, Toronto, Ontario, April 2014
  “Balancing the risks of anemia versus transfusion”
- University of Toronto, Transfusion Medicine Retreat, Toronto, Ontario, April 2014
  “Transfusion medicine 101: intraop – triggers and conservation strategies and salvage”
- Canadian Severe Bleeding Management Meeting, Toronto, Ontario, May 2014
  “Fibrinogen concentrate, cryoprecipitate and platelets”
- “North American perspectives”
- Canadian Severe Bleeding Management Meeting, Toronto, Ontario, May 2014

JERATH, A
- Department of Anesthesia and Pain Management, Toronto General Hospital, Toronto, Ontario, November 2013
  “Volatile anesthesia agents for long-term ICU sedation”
- Canadian Society of Respiratory Therapists. Montreal, Quebec, May 2014
  “Use of volatile anesthetics for long-term sedation in critically ill patients”

RESEARCH DEVELOPMENT
- Research Development Rounds, Women’s College Research Institute, Toronto, Ontario, February 2014
  “Is it possible to be ill and healthy? Let’s create a pandemic of health, together”
- MPH Global Health Roundtable Series, Dalla Lana School of Public Health, University of Toronto, Toronto, Ontario, March 2014
  “What is your verb? Enabling anyone, anywhere to have a happy and healthy life”
- COTELCO 60th Anniversary General Assembly event, Barranquilla, Columbia, March 2014
  “Happiness and tourism”
  “The healthy patient”
- VII UN World Urban Forum, Medellin, Colombia, April 2014
  “The wise city: promoting human flourishing in a healthy planet”
- 4th Annual SAMI Conference, Toronto, Ontario, May 2014
  “Can we change how we think about Mental Health? Come join the conversation!”
- Annual Conference, National Initiative for the Care of the Elderly (NICE), Toronto, Ontario, May 2014
  “On living a long, healthy, and happy life, full of love, and with no regrets, until our last breath”

JACKSON, J
- OECM (Ontario Early Career M scopists) Summit, Toronto, Ontario, May 2014
  “Anemia and its treatments in cardiac surgery”
- Department of Anesthesia, Southlake Regional Health Centre, Newmarket, Ontario, February 2014
  “Perioperative blood management”
- Toronto Anesthesia Symposium, University of Toronto, Toronto, Ontario, April 2014
  “Balancing the risks of anemia versus transfusion”
- University of Toronto, Transfusion Medicine Retreat, Toronto, Ontario, April 2014
  “Transfusion medicine 101: intraop – triggers and conservation strategies and salvage”
- Canadian Severe Bleeding Management Meeting, Toronto, Ontario, May 2014
  “Fibrinogen concentrate, cryoprecipitate and platelets”
- “North American perspectives”
- Canadian Severe Bleeding Management Meeting, Toronto, Ontario, May 2014

JERATH, A
- Department of Anesthesia and Pain Management, Toronto General Hospital, Toronto, Ontario, November 2013
  “Volatile anesthesia agents for long-term ICU sedation”
- Canadian Society of Respiratory Therapists. Montreal, Quebec, May 2014
  “Use of volatile anesthetics for long-term sedation in critically ill patients”

“Patient blood management”
- Canadian Society of Cardiac Surgeons and Association of Cardiovascular and Thoracic Surgeons of Quebec Joint Meeting, Auberge St-Antoine, Quebec, June 2014
- “Monitoring of coagulation, massive transfusion, and replacement of coagulation factors”
- Canadian Anesthesiologists’ Society, St. John’s, Newfoundland and Labrador, June 2014
- “Current controversies in transfusion”

KARSLI, C
- Annual Pediatric Pain Symposium Lecture, Hamad Medical Corporation, Doha, Ad Dawhah, Qatar, November 2013
- “Pediatric pain management – why is it important?”
- Hamad Medical Corporation. Doha, Qatar, November 2013
- “Pediatric airway management: the basics and beyond”
- The Hospital for Sick Children, Toronto, Ontario, November 2013
- “Thoracoscopy and one-lung ventilation in children”
- The Hospital for Sick Children, Toronto, Ontario, November 2013
- “Pediatric airway workshop”
- The Toronto Anesthesia Symposium, University of Toronto, Toronto, Ontario, April 2014
- “Pediatric airway management – the basics and beyond”
- The Toronto Anesthesia Symposium, University of Toronto, Toronto, Ontario, April 2014
- “The 5 year old down syndrome patient with obstructive sleep apnea for T&A”

KATZ, J
- Education Special Interest Group, Canadian Pain Society, 5th Annual Pain Education Refresher Course, Toronto, Ontario, February 2014
- “Persistent postsurgical pain – transitioning from acute to chronic. What are the risk factors? Which ones can be modified?”
- 30th Annual Meeting of the American Academy of Pain Medicine, Phoenix, Arizona, March 2014
- “Risk and protective factors associated with chronic postsurgical pain”
- York Circle Lecture Series, York University, Toronto, Ontario, May 2014
- “Chronic pain after surgery: epidemiology, risk factors, and preventive analgesia”
- 35th Annual Meeting of the Canadian Pain Society, Quebec City, Quebec, May 2014
- “Creating a ‘way forward plan’ to develop a return to work best practice guideline for injured workers with pain”
- “Tracking pain through time: from methodology to practice”

KATZNELSON, R
- “Hyperbaric oxygen and pain”
- Interdisciplinary Rounds, Wasser Pain Management Center, Toronto, Ontario, June 2014
- “Hyperbaric oxygen therapy: a novel treatment for pain”

KAVANAGH, BP
- 11th Congress of the World Federation of Societies of Intensive & Critical Care Medicine, Durban, South Africa, August 2013
- “Respiratory support – what should we be doing for our patients?”
- “….and CO2 is OK”
- “Elimination of VAP – a dream or a real possibility? Making sense of it all”
- “Bundles are NOT what we need”
- “How do you balance: safety and quality; need for increased efficiency and throughput; coming within budget? The real challenge”
- “Glucose control – is that the real goal, or have we missed the point?”
- American Society of Anesthesiologists Meeting, San Francisco, California, October 2013
- “We give too much fluid in the OR”
- “Refresher course lecture: challenges in guideline creation”
- Society of Critical Care Anesthesiologists Meeting, San Francisco, California, October 2013
- “Physiologic goals in the ICU”
- Critical Care Canada Forum, Toronto, Ontario, November 2013
- “Plenary RCT”
- “Debating (sepsis) guidelines: doubts about bundles”
- “Referring and transporting our sickest patients”
- “Trial registration patterns in CCM”
- “Obligations for end of life care in ICU”
- IPOKraTES 2013, Stellenbosch, South Africa, November 2013
- “Mechanisms of ventilator induced lung injury”
- “CO2, the circulation and acute illness”
- “Replacing the macrocirculation – issues with extracorporeal support”
- “Effects and side effects of resuscitation”
- Children’s Hospital of Eastern Ontario, Ottawa, Ontario, January 2014
- “The Rachael Waugh memorial lecture: bundles, protocols and guidelines – moving us forward?”
- Society of Critical Care Medicine Congress, San Francisco, California, January 2014
- “Experience should be used to make decisions”
- “Glucose control in sepsis”
- International Anesthesia Meeting of the National Health Institute of Medical Sciences & Nutrition of Mexico, Mexico City, Mexico, February 2014
- “Protocols and guidelines”
- “PEEP during anesthesia”
- “Fluids in OR: are we giving too much?”
- ANZICS Conference 2014, Christchurch, New Zealand, March 2014
- “Plenary session: hazards with normalization in ICU”
- 33rd International Symposium of Intensive Care and Emergency Medicine, Brussels, Belgium, March 2014
- “Is ARDS different in children?”
- “Take care when translating ‘clever’ ideas”
- “Acute physiological responsiveness: a criterion for trial entry?”
- “Pros and cons of protocols”
- “A place for therapeutic hypercapnia?”
- “Why young lungs are less sensitive”
- “Impact of APRV on oxygen delivery”
- University of Toronto and FMUSP (INCOR) Symposium 2014: Respiratory, Critical Care and Sleep Medicine, Sao Paulo, Brazil, May 2014
- “CO2 in critical illness”
- Boston Children’s Hospital, Boston, Massachusetts, June 2014
- “Protocols and guidelines in acute care”
KHANDUJA, K
- 11th Annual International Ultrasound for Regional Anesthesia, Pain Medicine, and Peri-operative Application, Toronto, Ontario, November 2013
  “Problem-based learning session: obstetric considerations for the morbidly obese parturient”

KIM, H
- 11th Annual International Ultrasound for Regional Anesthesia, Pain Medicine, and Peri-operative Application, Toronto, Ontario, June 2014
  “Focused transthoracic echocardiography workshop”
- Canadian Anesthesiologists’ Society Annual Meeting 2014, St. John’s Newfoundland, June 2014
  “Perioperative echo: best cases of the year”
- Canadian Anesthesiologists’ Society Annual Meeting 2014, St. John’s Newfoundland, June 2014
  “FOCUSed cardiac ultrasound workshop”
- Canadian Anesthesiologists’ Society Annual Meeting 2014, St. John’s Newfoundland, June 2014
  “Ultrasound resuscitation for beginners workshop”
- Toronto Interactive Anesthesia Conference, Toronto, Ontario, November 2013
  “TTE basics workshop”
- 11th Annual Toronto Peri-operative TEE Symposium, Toronto, Ontario, November 2013
  “Practical diastology”
- Harvard Perioperative Transesophageal Echocardiography and Annual Echo Boards Review Course, Boston, Massachusetts, September 2013
  “Physics and hemodynamics workshop”

KIRKHAM, K
- Toronto Western Hospital, Toronto, Ontario, October 2013
  “Basic ultrasound for regional anesthesia course”
- American Society of Anesthesiologists Annual Meeting, San Francisco, California, October 2013
  “Ultrasound guided regional anesthesia”
  “Hands-on workshop: challenging anatomy”
  “Resident and fellow educational program: US guided regional anesthesia”

KO, R
- Surgical Grand Rounds, Toronto General Hospital, Toronto, Ontario, January 2014
  “Post-operative pain management”

LAFFEY, J
- University of Toronto Interdisciplinary Department of Critical Care Annual Residents Day, Toronto, Ontario, June 2014
  “When more CO2 is less and more – a physiologic approach”
- International Anesthesia Research Society Annual Scientific Conference, Montreal, Quebec, May 2014
  “Cell based therapies for ARDS: promise and pitfalls”
- Canadian Critical Care Forum Annual Conference (Residents Day), Toronto, Ontario, November 2013
  “Hypercapnea: an important treatment, not a complication”
  “Hypocapnia: benefit vs harm”

LAUSSEN, P
  “Chair: closing address”
  “Mediators in cardiac surgery”
  “Stem cells for ALI/ARDS: promise and pitfalls”
- European Society of Intensive Care Medicine Annual Conference, Paris, France, October 2013
  “Cell-based therapy for acute lung injury”
- European Society of Intensive Care Medicine Annual Conference, Paris, France, October, 2013
  “Drug induced lung injury”
  “What I’m learning about ALI in the laboratory”
  “A nightmare: acute brain injury and concomitant ARDS”
  “Lung repair after ARDS”
- Association of Anaesthetists of Great Britain and Ireland Conference, Dublin, Ireland, September 2013
  “Wet lungs – current treatment and future concepts”
  “Management of severe hypoxemia”
- Medical Grand Rounds, St Vincent’s University Hospital, Dublin, Ireland, September, 2013
  “MSCs for ARDS – ready for clinical testing?”
- 12th Annual conference on Mechanical Ventilation, Rio de Janeiro, Brazil, July 2013
  “Airway management in the critically ill: can we do better?”
  “Hypercapnic acidosis: role in ventilation induced lung injury”
- Congenital Cardiac Anesthesia Society (CCAS) 2014, Fort Lauderdale, Florida, March 2014
  “Heart failure management: current management strategies”
- Congenital Cardiology Group/SYZYGY Innovation Summit, Dana Point, California, January 2014
  “Modifiable risk in the CICU: seeing is believing”
- American Heart Association Scientific Sessions 2013, Dallas, Texas, November 2013
  “Big data in the cardiac ICU: overwhelming or underappreciated”
  “Palliative care and congenital heart disease: not just the end of life”
- Critical Care Canada Forum 2013, Toronto, Ontario, November 2013
  “Meet the professors-intimate and interactive”
  “Pediatric heart patients”
- CPR in congenital heart disease”
  “Performance metrics: valid or not”
• The Hospital for Sick Children Critical Care Alumni meeting, Toronto, Ontario, November 2013
  “Modifiable risk”
• Human Manpower Development Program, Visiting Expert in Paediatric Cardiac Intensive Care, Singapore, October 2013
  “Single ventricle patients: management and outcomes stage 1 to stage 3”
• Neonatal cardiac interventions and counselling for complex disease in critical care”
• Neuro-monitoring during cardiac surgery”
• Adults with congenital heart disease”
• “Advances in neurodevelopment assessment and outcomes in children with congenital heart disease”
• Metabolism, nutrition & stress response”
• Challenges in cardiac resuscitation”
• Low cardiac output”
• Pulmonary hypertension”
• ECMO potpouri I & II”
• Quality improvement and safety in ICUs”
• Cardio-pulmonary interactions”
• National University Hospital, Hospital wide Grand Rounds, Singapore, October 2013
  “Modifiable risk in critical care?”
• PAME Grand Rounds, KK Women’s and Children’s Hospital, Singapore, October 2013
  “Cardiac critical care: where is it going and what have we learned?”
• National University Hospital, Department of Paediatrics Grand Rounds, Singapore, October 2013
  “Cardiac critical care: where is it going and what have we learned?”
• ANZICS/ACCN Intensive Care ASM 2013, Hobart, Tasmania, Australia, October 2013
  “Lessons from the SVR trial”
• “Boston and Toronto: separate specialized PICU”
• The Australian and New Zealand Annual Scientific Meeting on Intensive Care, Hobart, Australia, October 2013
  “Can technology make PICU a safer place?”
• “Improved survival in congenital heart disease: what next?”
• 5th Annual University of Toronto Center for Quality Improvement and Patient Safety Symposium, Toronto, Ontario, October 2013
  “Recognizing clinical deterioration: the challenge of prospective regeneration”
• OPENPediatrics, Boston, 2013
  “Low cardiac output state and airway management”
  “Identifying and managing low cardiac output”

LEVINE, M
• Pearls and Pitfalls for New Program Directors, PGME Office, University of Toronto, Toronto, Ontario, Canada, September 2014
  “Talk regarding residency program director orientation”

LO, N
• Toronto Anesthesia Symposium, Toronto, Ontario, November 2013
  “Getting the most out of your iDevice III”

MARGARIDO, C
• 46th Annual Meeting Society for Obstetric Anesthesia and Perinatology (SOAP), Ontario, May 2014
  “Spinal ultrasound and Transversus Abdominis Plane (TAP) block – ultrasound workshop”

MARSEU, K
• Toronto Interactive Anesthesia Conference, Toronto, Ontario, November 2013
  “PBLD session – rigid bronchoscopy for airway obstruction in an adult”
• Anesthesia Assistants Professional Development Day, Toronto, Ontario, November 2013
  “Awareness under anesthesia”

MATAVA, C
• Faculty Development Day 2013, Department of Anesthesia, University of Toronto, Canada, November 2013
  “Easy as ABC: exploring and developing web-based material for medical education”
• Canadian Pediatric Society 91st Annual Conference, Montreal, Quebec, June 2014
  “The use of internet for children’s health information by parents at a Canadian tertiary health institution”
• Canadian Anesthesiologists Society Annual Meeting 2014, St. John’s, Newfoundland and Labrador, June 2014
  “A collaborative approach to identifying EPAs for pediatric anesthesia”
• Canadian Anesthesiologists Society Annual Meeting 2014, St. John’s, Newfoundland and Labrador, June 2014
  “Power and conflict: the effect on residents’ ability to challenge authority during an emergency”
• Canadian Anesthesiologists Society Annual Meeting 2014, St. John’s, Newfoundland and Labrador, June 2014
  “Interprofessional pediatric pain education impacts practice”
• Association for Medical Education in Europe Conference (AMEE), Prague, Czech Republic.
  “eLearning among Canadian anesthesia residents: a survey of podcast use and content needs”
• Royal College Simulation Summit 2014, Toronto, Ontario, June 2014
  “Power and conflict: the effect on residents’ ability to challenge authority during an emergency”
• Canadian Anesthesiologists Society Annual Meeting 2014, St. John’s, Newfoundland and Labrador, June 2014
  “Interprofessional pediatric pain education impacts practice”
• Canadian Anesthesiologists Society Annual Meeting 2014, St. John’s, Newfoundland and Labrador, June 2014
  “Flipped classroom for anesthesia clerkship”
• Canadian Anesthesiologists Society Annual Meeting 2014, St. John’s, Newfoundland and Labrador, June 2014
  “Power and conflict: the effect on residents’ ability to challenge authority during an emergency”

Department of Anesthesia, University of Toronto, 2013 - 2014 55
Canadian Paediatric Society 91st Annual Conference, Montreal, Quebec, June 2014
“The use of internet for children’s health information by parents at a Canadian tertiary health institution”

Canadian Anesthesiologists Society Annual Meeting 2014, St. John’s, Newfoundland and Labrador, June 2014
“A collaborative approach to identifying EPAs for pediatric anesthesia”

North York General Hospital Anesthesia, Toronto, Ontario, September 2014
“Parental presence at induction of anaesthesia – the good, the bad, the ugly”

Department of Anesthesia – Toronto Interactive Anesthesia Meeting, University of Toronto, Ontario, November 2013
“Regional anesthesia for community practice”

Department of Anesthesia, University of Toronto, Ontario, November 2013
“Easy as ABC, exploring and developing web-based material for medical education”

Interview focusing on the success of the PediPain app. Interviewer: Pauline Chan, CTV News at Six, Toronto, Ontario, August
“App for managing pain after surgery”

MAYNES, JT

Society for Pediatric Anesthesia Annual Meeting, Fort Lauderdale, Florida, March 2014
“Anaesthetic agents induce protein misfolding and affect carbon dioxide response in the brainstem”

American Society of Anesthesia Annual Meeting, San Francisco, California, October 2013
“Anesthetic agents induce protein misfolding and affect carbon dioxide response in the brainstem”

Joint Meeting of the Congenital Heart Surgeon’s Society and the European Congenital Heart Surgeons Society, Chicago, Illinois, September 2013
“Endothelial to mesenchymal transition is involved in a pig pulmonary venous obstruction and stent failure model”

Acea Bioscience xCELLigence Meeting on Cardiac Function, Washington, DC, October 2013
“Molecular mechanisms to improve cardiac function”

MAZER, D

10th Meeting of Asian Society of Cardiothoracic Anesthesiologists, Singapore, October 2013
“Risks and benefits of antifibrinolytic and hemostatic drugs”

Association of Cardiac Anesthesiologists Annual Meeting, Washington, DC, October 2013
“Antifibrinolytic therapy in the post aprotinin era: efficacy and outcome”

ASA Annual Meeting, San Francisco, California, October 2013
“Synthetic coagulant agents – fibrinogen and PCCs – why not just replace blood products?”

“Update on strategies for blood conservation and hemostasis in cardiac surgery”

Li Ka Shing Knowledge Institute Research Retreat, Toronto, Ontario, October 2013
“Plagiarism”

Critical Care Canada Forum, Toronto, Ontario, November 2013
“CV Surgery: transfusion and blood conservation”

Inter-City Clinical Rounds: Tranexamic acid: Optimize Use, Minimize Side-Effects, Sunnybrook Health Sciences Centre, Toronto, Ontario, November 2013
“Seizure in the ICU patients, new drugs in the pipeline?”

Toronto Interactive Anesthesia Symposium (PBLD), Toronto, Ontario, November 2013
“The anticoagulated patient with coronary stents presenting for non-cardiac surgery”

Vancouver General Hospital Interdisciplinary Cardiac Journal Club Rounds, University of British Columbia, Vancouver, December 2013
“Transfusion and blood conservation in cardiac surgery”

Sunnybrook Hospital Research Ethics Board, Toronto, Ontario, February 2014
“Detection of research fraud: what is the role of the REB?”

National Judicial Institute Science Seminar, Toronto, Ontario, February 2014
“How science gets it wrong: issues in evaluating science and scientists”

Institut Universitaire de Cardiologie et de Pneumologie de Québec, Laval University, Québec, February 2014
“Transfusion and blood conservation in cardiac surgery”

Western University, Department of Anesthesia, London, Ontario, March 2014
“History, current status, and future prospects of hemoelastic agents in cardiac surgery”

“Transfusion in cardiac surgery”

SIRS Investigators’ meeting, Washington DC, March 2014
“Transfusion requirements in cardiac surgery”

Society of Cardiovascular Anesthesiologists Annual Meeting, New Orleans, Louisiana, March 2014
“Transfusion medicine: time for a shift”

“The role of fibrinogen in reducing transfusion”

“What transfusion trigger is indicated?”

Montreal Heart Institute, Montreal, Quebec, April 2014
“Transfusion requirements in cardiac surgery (TRICS III)”

Blood and Beyond: Issues in perioperative medicine, University of Dalhousie Department of Anesthesia, April 2014
“Balancing risks: perioperative anemia and transfusion”

University of Melbourne, Royal Melbourne Hospital, Melbourne, Australia, April 2014
“Transfusion in cardiac surgery”

Royal North Shore Hospital, Sydney, Australia, April 2014
“Transfusion in cardiac surgery”

Prince Charles Hospital, Brisbane, Australia, May 2014
“Transfusion in cardiac surgery”

Canadian Severe Bleeding Management meeting, Toronto, Ontario, May 2014
“Can perioperative blood management improve patient’s safety?”

“Antifibrinolytics and other hemostatic drugs”

MCCARTNEY, C

American Society of Regional Anesthesia and Pain Medicine (ASRA), Chicago, Illinois, April 2014
“Moving beyond PONV: redefining regional anesthesia outcomes”

“Workshop: continuous peripheral nerve blocks”

International Symposium of Ultrasound for Regional Anesthesia (ISURA), Toronto, Ontario, June 2014
“Peripheral nerve blocks are no longer needed in joint replacement surgery”
“Femoral and lumbar plexus blocks for hip surgery: when are they indicated?”
International Anesthesia Research Society, Montreal, Quebec, May 2014
“Ultrasound for neuraxial techniques and lumbar plexus block”

MCCLUSKEY, S
- Departments of Anesthesia and Surgery, University of Western Ontario, London, Ontario, September 2013
  “An introduction to ERAS: anesthetic management”
- McGill University, Montreal, Quebec, September 2013
  “Cardiac output monitoring as part of an ERAS program”
- Departments of Anesthesia and Surgery, Laurention University, Sudbury, Ontario, October 2013
  “An introduction to ERAS: anesthetic management”
- Departments of Anesthesia and Surgery, Lakeridge Health, Oshawa, Ontario, October 2013
  “An introduction to ERAS: anesthetic management”
- Departments of Anesthesia and Surgery, Royal Victoria Hospital, Barrie, Ontario, January 2014
  “Enhanced recovery after surgery. Can it work outside academia?”
- North York Hospital, Departments of Anesthesia and Surgery, Toronto, Ontario, February 2014
  “Optimizing perioperative fluid therapy for ERAS surgery”
- Hamilton Health Sciences Centre, Hamilton, Ontario, May 2014
  “Enhanced recovery after surgery (IERAS). Goal directed fluid therapy”

MEINERI, M
- Indian Association of Cardiothoracic Anesthesiologists, Bangalore, Karnataka, India, September 2013
  “TEE for transcatheter aortic valve implantation”
  “TEE simulation workshop”
- Hospital-Wide Rounds, Kuwait Cancer Care Centre, Kuwait City, Kuwait, September 2013
  “Point of care ultrasound in the perioperative setting”
- Toronto TEE Symposium Toronto General Hospital Department of Anesthesia, Toronto, November 2013
  “TEE for ECMO”
  “FOCUS cardiac ultrasound workshop”
- Toronto General Hospital, Toronto, Ontario, November 2013
  “FOCUS cardiac ultrasound course”
- Nursing Educational Rounds, Toronto General Hospital Cardiovascular Intensive Care Unit, Toronto, Ontario, January 2014
  “Spinal cord protection for thoracoabdominal aortic aneurysms”
- Society for Cardio Vascular Anesthesia, Thoracic Anesthesia Meeting, New Orleans, Louisiana, March 2014
  “Lung ultrasound workshop”
- Royal Victoria Hospital, Barrie, Ontario, April 2014
  “Point of care ultrasound”
- Department of Anesthesia University of Padova, Padova, Italy, April 2014
  “Introduction to TEE”
  “Point of care ultrasound course”
- Networking World Anesthesia Conference, Vienna, Austria, April 2014
  “The role of TEE in thoracic surgery”
  “Lung isolation workshop”
- Critical Care Ultrasound Institute, Montreal, Quebec, May 2014
  “Point of care echocardiography workshops”
  “Point of care ultrasound diagnosis of chest pain”
- Society of Critical Care Anesthesiologists Annual Meeting, Montreal, Quebec, May 2014
  “Point of care ultrasound in the assessment of RV function”

MURPHY, P
- 7th National TEE Workshop under the Indian Association of Cardiovascular Thoracic Anesthesiologists in collaboration with Indian Academy of Echocardiography, Bangalore, Karnataka, India, September 2013
  “Assessment of RV function by TEE”
- Making Your Mark National Review Course, Scarborough, Ontario, February 2014
  “Thoracic anesthesia”

NIAZI, A
- 7th Annual Anesthesia Assistant Professional Development Day, University Health Network, Toronto, Ontario, October 2013
  “Block room: putting the pieces together”
- 39th Annual Regional Anesthesiology and Acute Pain Medicine Meeting, American Society of Regional Anesthesia and Pain Medicine, Chicago, Illinois, April 2014
  “Resident program: popliteal, saphenous and ankle block”
  “Ask the experts: interscalene and supraclavicular blocks”
  “Challenging anatomy: femoral nerve block”

O’LEARY, G
- Local and Regional Anesthesia Techniques in Breast Surgery Sponsored by Kuwait Cancer Control Center, University Health Network, Princess Margaret Cancer Centre – Salmiya, Kuwait, November 2013
  “Breast cancer in young women: a multidisciplinary symposium”

ORSER, B
- Fellows Seminars, Department of Anesthesia, University of Toronto, Toronto, Ontario, June 2014
  “Memory loss: an unavoidable cost of anesthesia?”
- Department of Psychiatry Seminars, University of Toronto, Toronto, Ontario, June 2014
  “Mechanisms of anesthesia”
- Australian and New Zealand College of Anaesthetists and Surgeons, Singapore, May 2014
“The perioperative brain: mechanisms of action of current and future anesthetics”
“Patient safety: preventing a ‘never should happen’ event in your practice”
- International Anesthesia Research Society meeting, Montreal, Quebec, May 2014
- “Avoiding cognitive deficits after surgery and anesthesia”
- Department of Pharmacology and Therapeutics, McGill University, Faculty of Medicine, Montreal, Quebec, January 2014
- “Unexpected long term consequences of GABAA receptor activation”
- 2013 Aitken Memorial Lecture, Department of Anesthesia, University of Western Ontario, London, Ontario, December 2013
- “Anesthetics: unprecedented biological probes”
- “Anesthetics and memory, neuroscience group”
- Université Laval, Centre de Recherche de l’Institute, Universitaire en Santé Mentale de Québec, Quebec City, Quebec, December 2013
- “Erasing yet salvaging memory”
- Senior Alumni Association: Canadian Perspectives Lecture Series, Toronto, November 2013
- “Long and short-term effects of anesthetics on memory”
- Presentation at the Federal Minister Health Announcement of Canada Funding for Medication Incident Prevention Program, Toronto, Ontario, October 2013
- Jul 2013 International Union of Physiological Societies, Birmingham, England
- “Inflammation and GABAA receptors”
- Research in progress seminar, Department of Anesthesia, University of Toronto, Toronto, Ontario, May 2014
- “Do GABAA receptors contribute to memory deficits observed after traumatic brain injury?”

PARADIS, E
- Canadian Sociology of Health Conference, Montreal, Quebec, May 2014
- “Institutional and financial hurdles to interdisciplinarity in Canadian health research”
- “Social scientists and humanities scholars working in Canadian faculties of medicine: trying to turn apples into oranges?”
- Hospital Medicine Conference, Las Vegas, Nevada, March 2014
- “Social network analysis of interactions between providers using CareWeb messenger, a novel communication tool”
- Eastern Sociological Society Conference, Baltimore, Maryland, February 2014
- “Social scientists in the health research field: a clash of epistemic habitus”
- Society of Critical Care Medicine Conference, San Francisco, California, February 2014
- “Opening the black box: a typology of patients and families”
- Division of Child and Adolescent Psychiatry Retreat, University of Toronto, Toronto, Ontario, June 2014
- “The fight to keep out: interprofessional boundary work during morning rounds”
- University of Pittsburgh, Pittsburgh, Pennsylvania, April 2014
- “Interprofessional collaboration in US-based intensive care units: emerging findings from a multi-sited ethnographic study”
- Kingston University and St. George’s, University of London, London, United Kingdom, February 2014
- “Interprofessional collaboration in US-based intensive care units: emerging findings from a multi-sited ethnographic study”
- Wilson Centre Research Rounds, Ontario, Toronto, February 2014
- “The fight to get in (and keep out): rounds & boundary work in the intensive care unit”

PELIOWSKI, A
- Oral presentation at the “Top 10 Free Papers Session” of the Annual Congress of the European Society for Paediatric Anaesthesiology Geneva, Switzerland, September 2013
- “JA patient controlled analgesia (PCA) alone versus PCA plus background infusion for acute paediatric postoperative pain”

PENG, P
- 5th International Cadaver Workshop ISURA, Innsbruck, Austria, September 2013
- “Ultimate lecture: an optimum viaticum”
- Symposium on Ultrasound for Pain Medicine, Dubai, United Arab Emirates, October 2013
- “Ultrasound for pain medicine”
- Annual Meeting, American Society of Anaesthesiologist, San Francisco, California, October 2013
- “Ultrasound for pain medicine”
- Ontario Association of General Surgeons, Toronto, Ontario, November 2013
- “Regional anesthesia and perioperative pain management for general surgeons”
- Argentine Pain Foundation, Buenos Aires, Argentina, November 2013
- “Role of ultrasound in neuraxial procedure of pain”
- American Society of Regional Anaesthesia, Phoenix, Arizona, November 2013

“Tai Chi and pain. Symposium on complementary and alternative medicine”
- Canadian Pain Refresh Course, Canadian Pain Society, Toronto, Ontario, February 2014
- “Expert panel: headache. What if simple does not work?”
- Study of Multidisciplinary Pain Research (SIMPAR), Rome, Italy, March 2014
- “Sonoanatomy of hip and knee”
- “Ultrasound and pain-tips and tricks for experienced physicians”
- Canadian Pain Interventional Course, Interventional Special Interest Group, Canadian Pain Society, Vancouver, British Columbia, April 2014
- “Basic of ultrasound”

POLLARD, B
- Global Network Evening News, Toronto, Ontario, October 2013
- “Pain pumps are helping patients and saving money at St. Michael’s Hospital”

RIAZI, S
- Ontario Anesthesiologist Meeting (OMA), Niagara Falls, Ontario, September 2013
- “Should dantrolene be routinely stocked in out of hospital facilities?”
- MH in Canada, Department of Anaesthesia, Professor Rounds, University of Toronto, Toronto, Ontario, September 2013
- “Are Canadians hot?”
- Malignant Hyperthermia Association of United States, Scientific Conference, Toronto, Ontario, November 2013
- “Phenotype-genotype discordance in MH families in Canada”
- University of Toronto, Department of Anesthesia, Research in Progress Rounds, Toronto, Ontario, May 2014
“Phenotypic variability in malignant hyperthermia: functional alterations at the cellular level”

- 33rd Annual meeting of European Malignant Hyperthermia Group, Wurzburg, Bavaria, Germany, May 2014
- “Malignant hyperthermia testing in probands with NO adverse anesthetic reaction”

RINGSTED, C
- Association for Medical Education in Europe (AMEE), Prague, Czech Republic, August 2013
- “RESME course – research essential skills in medical education”
- “Young educations workshop: problematization and adaptive action: authentic learning for a successful career in medical education”
- International Conference on Residency Education (ICRE), Calgary, Alberta, September 2013
- “Pre-conference workshop: designing an assessment program including entrustable professional activities and milestones”
- Department of Anesthesia, St. Michael’s Hospital, Toronto, Ontario, October 2013
- “Grand rounds: research in simulation-based training”
- McGill Medical Education Rounds, Montreal, Quebec, October 2013
- “Questioning our intuitive assumptions through research in medical education”
- “How medical education centers can collaborate, centre for medical education”
- Nordic Association of Obst/Gyn, Education Committee, Copenhagen, Denmark, November 2013
- “How do we get the best specialists?”
- School of Medicine, Faculty of Medicine and Dentistry, University of Bergen, Bergen, Norway, November 2013
- “What is learning?”
- Sunnybrook Health Science Centre, Education Research Rounds, Toronto, Ontario, January 2014
- “Research in a simulation-based setting”
- The Hodges Education Scholarship International Symposium (THESIS), The Wilson Centre, Toronto, Ontario, March 2014
- “Panel discussion: the irony in the quest for competence”
- Best Practice in Education Rounds, Centre for Faculty Development, University of Toronto, Toronto, Ontario, April 2014
- “Why and how pioneer surgeons learn a novel procedure”
- Academy for Innovation in Medical Education, Ottawa University, Ottawa, Ontario, April 2014
- “Designing in-training assessments including EPAs and milestones”
- Research Essential Skills in Medical Education, Ottawa Conference, Ottawa, Ontario, April 2014
- “RESME course”

SIDDIQUI, N
- 11th Annual Mount Sinai Hospital Obstetric Anesthesia Conference, Department of Anesthesia, University of Toronto, Ontario, September 2013
- “Obstructive sleep apnea and pregnancy”
- Surgical day at Mount Sinai Hospital, Department of Surgery, University of Toronto, Toronto, Ontario, October 2013
- “Pain management recommendations for ERAS program”
- Thunder Bay, Ontario, October 2013
- “Enhanced recovery after surgery – role of anesthesiologist”
- Kuwait City, Al Kuwaity, Kuwait, March 2014
- “Enhanced recovery after surgery – what are the anesthesia ingredients”
- Kuwait City, Kuwait, March 2014
- “Principles of aseptic technique for anesthesia procedures”

SINZIANA, A
- Research in progress seminar, Department of Anesthesia, University of Toronto, Toronto, Ontario, May 2014
- “Do GABAA receptors contribute to memory deficits observed after traumatic brain injury?”

SLINGER, P
- Johannesburg Peri-Operative Cardiothoracic Congress, Johannesburg, South Africa, July 2013
- “When do we need lung function tests?”
- “Peri-operative lung protection strategies, lessons from lung transplantation”
- “Hypoxemia during one-lung ventilation”
- Anesthesia Section, Ontario Medical Association, Ontario, September 2013
- “Ventilation strategies and post-operative outcomes”
- Visiting Professor, Department of Anesthesiology, Tikur Anbessa Hospital, Addis Ababa, Ethiopia, October 2013
- Toronto Interactive Anesthesia Meeting, University of Toronto, Ontario, November 2013
- “PBLD: adult bronchoscopy for a foreign body”
- Society of Anesthetists of Hong Kong, Hong Kong, China, November 2013
- “Advances in lung isolation for thoracic anesthesia, perioperative lung protective strategies – are they worth the trouble?”
- “Thoracic anesthesia workshop”
- Conference on the Difficult Airway, Tata Memorial Medical Center, Mumbai, India, December 2013
- “Lung isolation”
- “Lung isolation in a patient with a difficult airway”
- “How to optimize one-lung ventilation”
- “Mediastinal masses and lower airway problems”
- “Lung isolation interactive case discussions”
- Indian Society of Anesthesiologists, Guwahati, Assam, India, December 2013
- “Preoperative assessment for pulmonary resection, recent advances in one-lung ventilation”
- Aspen Anesthesia, Aspen, Colorado, February 2014
- “Lung protective ventilation strategies in anesthesia, do they make a difference?”
- “Intra-operative management of the patient with severe lung disease; update on lung isolation and one-lung ventilation”
- Egyptian Society of Cardiothoracic and Vascular Anesthesia, Luxor, Egypt, February 2014
- “Lung isolation in the patient with a difficult airway”
- Indian Association of Cardiothoracic Anesthesiologists, Mumbai, India, February 2014
- “Morbidly obese patient for a thoracotomy”
- “Post-thoracotomy analgesia”
- “TEE in thoracic anesthesia”
- Thoracic Anesthesia Symposium – Society of Cardiovascular Anesthesiologists, New Orleans, Louisiana, March 2014
- “Post-thoracotomy thoracic epidural analgesia”
"Lung isolation for thoracic anesthesia; update on one-lung ventilation"

Toronto Anesthesia Symposium, Ontario, April 2014

"Post-thoracotomy intensive care management problem-based learning discussions"

Canadian Critical Care Society, Toronto, Ontario, November 2013

"Patterns of communication during ICU cardiac arrests"

Canadian Critical Care Forum (CCCF), Toronto, Ontario, November 2013

"Prospective observational study of communication during ICU cardiac arrests"

Canadian Critical Care Forum (CCCF), Toronto, Ontario, November 2013

"Clarity in critical moments – audio recording of pediatric ICU resuscitations"

Society of Paediatric Anaesthesia Australia and New Zealand (SPANZA), Manly, Australia, October 2013

"Do second generation treatments modify anesthesia risk in children with pulmonary hypertension?"

Society of Paediatric Anaesthesia Australia and New Zealand (SPANZA), Manly, Australia, October 2013

"A prospective study of audio-recorded resuscitations in a pediatric ICU"

"Clarity in critical moments: audio recorded resuscitation performance"

Department of Anesthesia, University of Toronto, Toronto, Ontario, May 2013

"Ultrasound for arterial cannulation in infants and small children – to see or not to see?"

Faculty Development Day, Department of Anesthesia, University of Toronto, Ontario, November 2013

"Clarity in critical moments – audio recording of pediatric ICU resuscitations"

Society of Paediatric Anaesthesia Australia and New Zealand (SPANZA), Manly, Australia, October 2013

"Do second generation treatments modify anesthesia risk in children with pulmonary hypertension?"

Society of Paediatric Anaesthesia Australia and New Zealand (SPANZA), Manly, Australia, October 2013

"A prospective study of audio-recorded resuscitations in a pediatric ICU"

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"A prospective study of audio-recorded resuscitations in a pediatric ICU"

Society of Paediatric Anaesthesia Australia and New Zealand (SPANZA), Manly, Australia, October 2013

"Clarity in critical moments: audio recorded resuscitation performance"
Wells, G
- The Institute for Chartered Accountants of Ontario Professional Development Series, Toronto, Ontario, July 2013
  “Be better: the corporate olympian workshop”
- University of Toronto Rotman Commerce Program Class of 2016 Conference, Toronto, Ontario, September 2013
  “Be better: how to excel in academics”
- Crescent School, Toronto, Ontario, September 2013
  “Be better: how to excel in academics”
- New College at the University of Toronto, Toronto, Ontario, September 2013
  “Be better: how to excel in academics”
- Medbuy Corporation Annual Conference, Toronto, Ontario, October 2013
  “Be better: using principles from sport science to excel in business”
- Toronto General Hospital Physiology Rounds – Critical Care Medicine, Toronto, Ontario, October 2013
  “Exercise as medicine for critical care patients”
- Health and Fitness Program Annual Lecture in Honour of Gord Sievert, Canadian Society for Exercise Physiology Annual General Meeting and Conference, Toronto, Ontario, October 2013
- “Exercise, high performance and health”
- “Advanced technologies and techniques for physiological assessment”
- “From physiology research to applied sport science”
- Chartered Accountants of Ontario, Burlington, Ontario, November 2013
  “Be better workshop: using principles from sport science to excel in business”
- Impossible 2 Possible, Ontario, Ontario, November 2013
  “The limiting and limitless mind”
- Chartered Accountants of Ontario, Brockville, Ontario, November 2013
  “Be better: using principles from sport science to excel in business”
- Cadillac Fairview, Toronto, Ontario, November 2013
  “Be better: using principles from sport science to excel in business”
- Toronto Catholic District School Board’s 2013 Mental Health Symposium, Toronto, Ontario, November 2013
  “Be better: using principles from sport science to excel in academics”
- Toronto Triathlon Club, Toronto, Ontario, November 2013
  “From illness to ironman”
- University of Toronto, Faculty of Medicine, Toronto, Ontario, December 2013
  “Be better: using principles from sport science to excel in academics”
- Faculty of Kinesiology Public Symposium, University of Toronto, Faculty of Kinesiology, Toronto, Ontario, December 2013
  “Extreme environments, extraordinary feats: how far can we push ourselves?”
- Toronto Catholic District School Board, Toronto, Ontario, February 2014
  “Be better in education: resiliency, revitalization and renewal”
- Peterborough Healthcare 3rd annual Brain FHT Continuing Medical Education Day, Peterborough, Ontario, February 2014
  “Be better in healthcare”
- The Heart and Stroke Foundation of Canada Annual Board of Directors Meeting, Kananaskis, Alberta, February 2014
  “Exercise as medicine”
- The Canadian Property Tax Association National Valuation and Legal Symposium, Toronto, Ontario, February 2014
  “The corporate olympian part 2”
- Ontario Medical Association Alumni Association, Vancouver, British Columbia, May 2014
  “How to eat, move & sleep for better health”
- Annual Canadian Science Writers Conference, Toronto, Ontario, June 2014
  “Changing the world with science: from knowledge generation to knowledge translation”

Wijeysundera, D
- American Society of Anesthesiologists Annual Meeting, San Francisco, California, October 2013
  “Clinical epidemiology as a career in anesthesiology”
“Does my patient need a preoperative trans-thoracic echocardiogram?”

- Annual Meeting and Workshops of the Society of Cardiovascular Anesthesiologists, New Orleans, Louisiana, March 2014
- “Update on the beans: how to keep them going”
- Toronto Anesthesia Symposium, Faculty of Medicine, University of Toronto, Toronto, Ontario, April 2014
- “What is new in cardiac evaluation and optimization for non-cardiac surgery?”

**WONG, D**

- NWAC World Anesthesia Convention, Vienna, Wien, Austria, April 2014
  “What’s new with supraglottic airways?”
  “Ultrasound of the airway”
- Toronto Western Hospital, Toronto, Ontario, August 2013
  “Surgical airway”
- Annual Society for Airway Management Scientific meeting, Toronto, Ontario, September 2013
  “Preparing for plan C – the surgical airway”
- Society for Airway Management Scientific Meeting, Philadelphia, Pennsylvania, September 2013
  “Intubation via a supraglottic device”
- The Cleveland Clinic, Cleveland, Ohio, October 2013
  “Cannot intubate cannot ventilate: ready for a surgical airway?”
- American Society of Anesthesiologists Annual Meeting, San Francisco, California, October 2013
  “Flexible bronchoscopic intubation”
- SAMBA 29th Annual Meeting, Baltimore, Maryland, April 2014
  “Improving success with supraglottic airways”
  “Airway management for the morbidly obese”
  “Cases from the real world: unanticipated difficult airway”
- ACECC Airway Management Special Interest Group Meeting, Singapore, May 2014
  “Tracheal intubation via a supraglottic airway”
  “Ultrasound of the airway”
- Singapore General Hospital, Singapore, May 2014

“Cannot intubate cannot ventilate: are you ready for a surgical airway?”

**YEE, D**

- Toronto Anesthesia Symposium, Toronto, Ontario, April 2014
  “Lecture: old myths and new paradigms in trauma care”

**ZHANG, H**

- ATS 2014 International Conference, San Diego, California, May 2014
  “A47-critical illness: novel molecules and models”
- 7th Critical Care Medicine Symposium, The Society of Critical Care Medicine, Guangzhou, China, March 2014
  “Ventilator associated lung fibrosis in ARDS: significant contributor to poor outcome”
- Visiting Professorship Lecture, Harbin Medical University, China, October 2013
  “Mechanisms of pulmonary permeability in ARDS”
### Research Funding

#### Peer-Reviewed Grants

**ABDALLAH, F**  
2013-2014  
The University of Toronto Center for the Study of Pain (UTCSP), Pain scientist grant  
**Title:** The impact of improved pain control using regional anesthesia techniques on patient survival following malignant tumor resection  
**Amount:** $12,500  
**Principal Applicant:** F Abdallah  
**Co-Applicant:** A Laupacis  
**Collaborators:** C McCartney, D Wijeysundera

**ARZOLA, C**  
2013-2014  
The Garron Family Cancer Centre  
**Title:** A feasibility pilot study of ultrasound – guidance for difficult lumbar punctures in children with cancer  
**Amount:** $49,910  
**Principal Investigator:** L Sung  
**Collaborators:** C Arzola, F Shaikh, S Alexander, JA Carvalho, T To

**ANGLE, P**  
2012-2015  
The Langar Foundation  
**Title:** Multi-phase study examining intracranial blood flow for diagnosis of PDPH using transcranial doppler blood flow velocity  
**Amount:** $60,000  
**Principal Investigator:** P Angle  
**Co-Investigator:** A van Den Bruel

**AWAD, I**  
2014-2015  
SEAC ERC Education Research and Scholarship Grant  
**Title:** Implementation of www.eLearnMD.com as a learning management system for the anesthesia residency training program and evaluation of its effectiveness as a teaching tool  
**Amount:** $4,800  
**Principal Investigator:** I Awad  
**Co-Investigator:** P McHardy, O Singer, G Kong, J Chung

**BAKER, AJ**  
2013-2015  
Department of Anesthesia, University of Toronto  
**Title:** A trial of labour or repeat cesarean section? A mixed methods study examining women’s preferences and providers’ counsel  
**Amount:** $330,000  
**Principal Investigator:** C Kurtz Landy

**BEVERLEY, O**  
2013-2018  
Canadian Institutes of Health Research (CIHR)  
**Title:** Memory loss after anesthesia by inhibiting alpha 5 GABAA receptors  
**Amount:** $819,055  
**Principal Investigator:** B Orser  
**Co-Investigator(s):** N/A

**BALKI, M**  
2013-2015  
Ontario AHSC AFP Innovation Fund  
**Title:** High-fidelity simulation to assess interprofessional teamwork in obstetric crisis management  
**Amount:** $124,437  
**Principal Investigator:** M Balki  
**Co-Investigators:** ME Cooke, R Windrim
2009-2014
Canada Research Chair in Anesthesia, Tier 2, Renewal
Title: Anesthetic drugs: From molecular mechanisms to patient safety
Amount: $500,000
Principal Investigator: B Orser
Co-Investigator(s): N/A

2013
Source Leader’s Opportunity Funds & Ministry of Research and Innovations
Title: Mechanisms of Anesthesia and Sleep
Amount: $224,332
Principal Investigator: B Orser
Co-Investigator: R Horner

BRULL, R
2011-2014
Physicians Services Incorporated (PSI) Foundation
Title: Can ultrasound detect diabetic peripheral neuropathy?
Amount: $19,000
Principal Investigators: R Brull, VWS Chan
Co-Investigator(s): S Riazi, B Bril, JT Lau

CAMPBELL, F
2014-2017
Canadian Institutes of Health Research (CIHR)
Title: iCanCope with pain: an integrated smartphone and web self-management program for adolescents and young adults with chronic pain
Amount: $383,884
Principal Investigator: J Stinson
Collaborators: F Campbell, J Chorney, J Clark, B Dick, P Forgeron, A Gordon, L Jibb, C Laloo, M McGillion, L Montgomery, T Palermo, R Rashiq, D Ruskin, M Simmonds, S Tupper, C Victor, M Ware, J Cafazzo

2014-2015
Innovation Fund Hospital for Sick Children
Title: “My post-op pain”: user-centered design of a smartphone-based app to improve self-management of acute post-op pain
Amount: $9,897
Principal Investigator: F Campbell
Collaborators: J Stinson, M Crawford, A Kaushal, C Laloo, C Matava, U Narayanan, G Petroz, A Riggs, D Stocki

CARVALHO, J
2013-2014
Canadian Institutes of Health Research (CIHR)
Title: Blockade of ace and treatment with empagliflozin – effects on hyperfiltration in Type 1 Diabetes: The-between-T1D Study
Amount: $651,520
Principal Investigator: D Cherney
Collaborators: J Carvalho, A Advani, B Perkins

CHOI, S
2014-2016
Holland Musculoskeletal Research Committee New Investigator Award
Title: N/A
Amount: $30,000
Principal Investigator: R Horner
Co-Investigator: F Chung

CLARKE, H
2013-2015
University of Guelph-Humber Research Fund
Title: Prehabilitation for Prostate Cancer Surgery
Amount: $21,239
Principal Investigator: D Santa Mina
Co-Investigators: H Clarke, SMH Alibhai, P Ritvo, F Carli, C Guglietti, L Stefanyak, J Trachtenberg, AG Matthew, DN Wijeysundera

CLARKE, H
2014-2016
APF award: Hamilton Health Sciences Centre
Title: Pregabalin and lidocaine in breast surgery to alter neuropathic pain (PLAN)
Amount: $130,434
Principal Investigator: PJ Devereaux
Co-Investigator: S Choi

2014-2016
Singapore Innovation Grant
Title: Use of Profox and Pulsox to manage acute post-op pain
Amount: $99,100
Principal Investigator: E Seet
Co-Investigator: F Chung

2012-2014
Canadian Institutes of Health 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

2013-2016
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

2013-2015
Prostate Cancer Canada Movember Discovery Grants
Title: A multi-centre, pilot randomized controlled trial to examine the effects of prehabilitation on functional outcomes after radical prostatectomy
Amount: $176,069
Principal Investigators: D Santa Mina, AG Matthew
Collaborators: H Clarke, H Alibhai, P Ritvo, A Finelli, S Tanguay, A Aprikian, C Gillis, J Trachtenberg, F Carli

2011-2014
Physicians’ Services Incorporated (PSI) Foundation
Title: The phenomics and genomics of clinically relevant chronic postsurgical pain
Amount: $170,000
Principal Investigator: H Clarke
Co-Principal Investigators: Z Seltzer, J Katz
Co-Investigators: M Choinière, G Djiani, S Beattie, A Paterson, V Rao, M McGillion, J Hunter, J Watt-Watson

2013-2014
Canadian Anesthesiologists’ Society Baxter Corporation
Canadian Research Award in Anesthesia
Title: Post thoracotomy pain syndrome: a randomized, double blind study comparing closure techniques
Amount: $20,000
Principal Investigator: H Clarke
Co-Investigators: K Yasufuku, M Ma, A Huang, J Katz, R Ko, M de Perrot

2013-2015
Ontario AHSC AFP Innovation Fund
Title: Multi-centre evaluation of a novel technique of analgesia following open liver resection: midline open transversus abdominis plane (MOTAP) catheters
Amount: $126,949
Principal Investigator: H Clarke
Co-Investigators: P Karanicolas, A Wei, S McCluskey, R Ko, S Cleary, P McHardy, J Katz, S Ladak, J Sawyer, C Law, A Kiss
Title: Pre-activated mesenchymal stem cell therapy for bacterial pneumonia
Amount: $30,000
Principal Investigator: G Curley
Co-Investigator(s): J Laffey

University of Toronto Clinician Scientist Transition Award
Title: Fate and function of MSCs in ARDS and sepsis
Amount: $150,000
Principal Investigator: G Curley
Co-Investigators: W Kuebler, J Laffey, S Grinstein

International Anesthesia Research Society Mentored Research Award
Title: MSC-macrophages interactions in ARDS and sepsis
Value: $150,000
Principal Investigator: G Curley
Co-Investigators: W Kuebler, J Laffey, S Grinstein, A Keating

Cuthbertson, BH
2014-2016
Australia and New Zealand College of Anaesthetists
Society Research Award
Title: Using the six-minute walk test to predict quality of recovery and disability-free survival following major non-cardiac surgery
Amount: $130,420 AUD
Principal Investigator: P Myles
Collaborators: BH Cuthbertson, M Sulman, S Wallace, DN Wijeysundera, RM Pearse

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

Friedman, Z
2014-2016
The Physicians Services Incorporated Foundation
Title: Challenging authority during a life threatening crisis: the effect of a teaching intervention
Amount: $72,000
Principal Investigator: Z Friedman
Collaborator: S Perelman

Sainsbury
2014-2019
Ontario Heritage Fund (OHF)
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
Amount: $57,797
Principal Investigator: P Nambyiah
Collaborators: D Bould, TC Everett, G Moore, K Abdulla, S Boet

Gagliese, L
2014-2016
Canadian Cancer Society (CCS) – Operating Grant
Title: Emotion and Symptom-focused Intervention (EASI) for individuals with acute leukemia
Amount: $299,981
Principal Investigators: G Rodin, C Zimmerman
Co-Investigators: L Gagliese, P Fitzgerald, C Lo, R Nissim, A Schimmer, A Rydall

2011-2016
Canadian Institutes of Health Research (CIHR)
Title: Pain in older cancer patients with delirium: development of an observational measure
Amount: $787,410
Principal Investigator: L Gagliese
Co-Investigators: G Rodin, C Zimmermann, B Stevens, VWS Chan

Chan, A Easson, G Rodin, M Li
<table>
<thead>
<tr>
<th>Title</th>
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<th>Principal Investigator(s)</th>
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<td><strong>Nanomedicine approach to transfusion requirement in outpatient surgery</strong>&lt;br&gt;2013-2016&lt;br&gt;Canadian Institute of Health Research (CIHR)&lt;br&gt;Title: Transfusion Requirement in Cardiac Surgery III (TRICS III)&lt;br&gt;Amount: $3,323,110&lt;br&gt;Principal Investigator: G Hare&lt;br&gt;Co-Investigator: G Hare</td>
<td>$3,323,110</td>
<td>G Hare, G Hare</td>
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<tr>
<td><strong>A novel pediatric face mask designed to facilitate spontaneous and positive pressure ventilation as well as flexible fiberoptic intubation</strong>&lt;br&gt;2013-2014&lt;br&gt;The Australian National Health and Medical Research Council&lt;br&gt;Title: Restrictive versus liberal fluid therapy in major abdominal surgery&lt;br&gt;Amount: $140,000 AUD&lt;br&gt;Principal Investigator: P Myles&lt;br&gt;Co-Investigators: A Jerath, M Wasowicz, D Mazer, G Hare</td>
<td>$140,000</td>
<td>P Myles, A Jerath, D Mazer, G Hare</td>
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<td><strong>Therapeutic potential of hepoxilin analogues</strong>&lt;br&gt;2008-2013&lt;br&gt;Canadian Institutes of Health Research (CIHR) Operating Grant&lt;br&gt;Title: Ventilator-induced lung injury: linking gene activation, physiology and outcome&lt;br&gt;Amount: $643,000&lt;br&gt;Principal Applicant: BP Kavanagh&lt;br&gt;Co-Principal Applicant: M Post</td>
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<td><strong>Reducing blood transfusions in cardiac surgery by an algorithm-based personalized medicine approach to bleeding</strong>&lt;br&gt;2013-2015&lt;br&gt;Ontario AHSC AFP Innovation Fund&lt;br&gt;Title: Use of volatile for long-term sedation in critical care patients&lt;br&gt;Amount: $152,936&lt;br&gt;Principal Investigator: A Jerath&lt;br&gt;Collaborators: M Wasowicz, N Ferguson, A Steel, D Mazer, V Rao&lt;br&gt;Co-Investigators(s): N/A</td>
<td>$152,936</td>
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<td><strong>Tier 1 CRC in Health Psychology</strong>&lt;br&gt;2010-2017&lt;br&gt;Canadian Institute of Health Research (CIHR)&lt;br&gt;Title: Pre-existing patient factors associated with sensorimotor recovery, chronic pain and brain plasticity following surgical repair of peripheral nerve injuries&lt;br&gt;Amount: $348,273&lt;br&gt;Principal Investigator: K Davis&lt;br&gt;Co-Investigators: J Katz, D Anastakis</td>
<td>$348,273</td>
<td>K Davis, J Katz, D Anastakis</td>
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<td><strong>Heart and Stroke Foundation (HSF) of Canada</strong>&lt;br&gt;2013-2015&lt;br&gt;Title: Plasma concentrations and pharmacokinetics in patients with renal impairment undergoing cardiopulmonary bypass surgery&lt;br&gt;Amount: $90,658&lt;br&gt;Principal Investigator: A Jerath&lt;br&gt;Co-Investigators: M Wasowicz, J Pawliszyn, SK Pang, D Wijeyasurya, T Yau</td>
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<td>BP Kavanagh, M Post</td>
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2010-2015
Canadian Institutes of Health Research (CIHR) Operating Grant
Title: Preclinical Assessment of therapeutic hypercapnia
Amount: $563,000
Principal Applicant: BP Kavanagh
Co-Applicant: N/A

2013-2018
Canadian Institutes of Health Research (CIHR) Fellowship Grant
Title: Linking ventilator-induced diaphragm dysfunction and weaning failure to diaphragm inactivity during mechanical ventilation: a physiological clinical research program
Amount: $275,000
Principal Applicant: E Goligher
Co-Applicant: BP Kavanagh

2014-2019
Canadian Institutes of Health Research (CIHR) Operating Grant
Title: Ventilator-induced lung injury: linking gene activation, physiology and outcome
Amount: $718,000
Principal Applicant: BP Kavanagh
Co-Applicants: M Post, G Santyr, M Amato

Khan, J
2014-2016
AFP award: Hamilton Health Sciences Centre
Title: Pregabalin and lidocaine in breast surgery to alter neuropathic pain (PLAN)
Amount: $130,434
Principal Investigator: G Guyatt
Co-Investigators: J Khan, H Clarke

Kim, H
2013-2014
Academic Health Science Centre (AHSC) AFP Innovation Fund
Title: A simulation-based preceptorship for the education of transesophageal echocardiography
Amount: $20,126
Principal Investigator: H Kim
Co-Investigators: R Chen, T George

Laffey, J
2014
Canadian Institutes for Health Research (CIHR) Operating Grant Award
Title: Cell based therapies for Acute Respiratory Distress Syndrome
Amount: $750,000
Principal Applicant: J Laffey
Co-Investigator: G Curley

2013
Physicians Services Incorporated 2013 Research Project Grant Award
Title: Determination of the therapeutic potential of human MSCs for Sepsis induced ALI/ARDS
Amount: $170,000
Principal Applicant: J Laffey
Co-Investigator: G Curley

2013
Department of Anesthesia, University of Toronto 2013 Translational Grant Award
Title: Targeting the MSC-Macrophage interaction to maximize the therapeutic utility of MSCs in sepsis induced ARDS
Amount: $50,000
Principal Applicant: J Laffey
Co-Investigator: G Curley

2013-2015
Department of Anesthesia, University of Toronto Merit Award
Title: Optimising the therapeutic potential of human Mesenchymal Stromal Cells (hMSCs) for Acute Respiratory Distress Syndrome
Amount: $40,000
Principal Applicant: J Laffey
Co-Investigator: G Curley

Lo, N
2013-2014
AFP Innovation Fund – St. Michael’s Hospital
Title: Anesthesia information electronic resource development: a novel platform to improve anesthesia quality and safety and facilitate clinical research
Amount: $40,881
Principal Investigator: N Lo
Co-Investigators: G Hare, A Ho, J Hanlon, J Baker

Matava, C
2014-2015
Perioperative Summer Student Grant – The Hospital for Sick Children
Title: The SonixGPS ultrasound system improves the ability of pediatric anesthesiologists and trainees to achieve vascular access compared to the traditional ultrasound and needle system
Amount: $7,500
Principal Investigator: C Matava
Collaborators: O Finnerty, S Balakrishnan, A Niazi

2014-2015
Perioperative Services Innovation Grant – The Hospital for Sick Children
Title: Development of an interactive app for training children in managing preparation for anesthesia and surgery
Amount: $10,500
Principal Investigator: C Matava
Collaborators: N/A

Maynes, J
2014-2017
Heart and Stroke Foundation of Ontario
Title: Rescue of disrupted mechanotransduction as a new therapeutic strategy in human dilated cardiomyopathy
Amount: $253,000
Principal Investigator: J Maynes
Co-Investigator: J Coles

2014-2017
Canadian Institutes of Health Research (CIHR)
Title: Progressive pulmonary vein stenosis: focus on “upstream” vasculopathology
Amount: $297,000
Principal Investigator: J Maynes
Co-Investigators: C Caldarone, J Coles

2013-2014
University of Toronto Merit Award
Title: The use of iPSC-derived cardiomyocytes as models for drug toxicity..
Amount: $80,000
Principal Investigator: J Maynes
Co-Investigator: N/A

Mazer, D
2013-2018
Canadian Institutes of Health Research (CIHR)
Title: Transfusion requirements in cardiac surgery (TRICS III)
Amount: $3,323,110
Principal Investigator: D Mazer
Co-Investigators: N Shehata, R Whitlock, K Thorpe, D Ferguson et al

2012-2016
Canadian Institutes of Health Research (CIHR)
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
Amount: $987,066
Principal Investigator: D Wijeyasurya
Co-Investigator: D Mazer

2011-2014
Canadian Institutes of Health Research (CIHR)
Title: Transfusion requirements in cardiac surgery (TRICS II)
Amount: $444,165
Principal Investigator: N Shehata, D Mazer
Co-Investigators: S Bagshaw, H Grocott, F Rubens, R Whitlock, D Ferguson, C MacAdams et al
2011-2013
Canadian Institutes of Health Research
Title: Steroids in Cardiac Surgery (SIRS) Trial
Amount: $20,185
Principal Investigator: R Whitlock
Co-Investigators: K Teoh, S Yusuf, D Mazer, et al

MCDONNELL, C
2013-2015
Department of Anesthesia & Pain Medicine Internal Seed Grant
Title: Easy dose it – development of a dose checking
Amount: $10,000
Principal Investigator: C McDonnell
Collaborator: R Roy

MEINERI, M
2014-2015
Peter Munk Cardiac Centre Innovation Fund
Title: Development of interactive online modules for learning 3D transesophageal echocardiography and the assessment of cardiac pathology with 3D and 2D transesophageal echocardiography
Amount: $200,000
Principal Investigator: M Meineri
Co-Investigators: A Vegas, J Crossingham

2014-2015
Instructional Technology Innovation Fund, University of Toronto
Title: Development of interactive online teaching aids for learning Point-of-Care Ultrasound (POCUS)
Amount: $30,000
Principal Investigator: M Meineri
Co-Investigators: C Gardner-Nix, A Goffi, G Tait

NIAZI, AU
2013-2014
Ontario AHSC AFP Innovation Fund
Title: Use of telesimulation to teach ultrasound guided regional anesthesia to anesthesiologists in Ontario
Amount: $80,940
Principal Investigator: AU Niazi
Collaborators: VWS Chan, A Okrainec

O’LEYAR, JD
2014
The Hospital for Sick Children Perioperative Services Innovation Fund
Title: A multidimensional strategy to improve the quality of the pre-briefing component of the SickKids surgical safety checklist
Amount: $10,000
Principal Investigator: JD O’Leary
Co-Investigators: C McDonnell, GR Baker, D Bagli

2014
SickKids Heart Centre Innovation Fund
Title: The protective effect of the α2-agonist dexmedetomidine on mitochondrial structure and function for children with non-cyanotic congenital heart defects having cardiac surgery: a randomized controlled trial
Amount: $25,000
Principal Investigator: JD O’Leary
Co-Investigators: JT Maynes, J Coles

Riaz, S
2012-2016
Physician’s Services Incorporated (PSI) Foundation
Title: Calsequestrin-1, a candidate gene for the diagnosis of malignant hyperthermia: study of molecular genetics of malignant hyperthermia
Amount: $22,000
Principal Investigator: S Riaz
Collaborators: WS Beattie, D MacLennan

2013-2015
Translational Research Competition, Department of Anesthesia, Faculty of Medicine, University of Toronto
Title: An investigation of skeletal muscle bioenergetics and mitochondrial function in patients with malignant hyperthermia
Amount: $50,000
Principal Investigator: S Riaz
Co-Investigators: M Tarnopolsky, G Wells, T Rasmus Kiehl, N Kraeva

SHASTRI, U
2013-2014
Ontario Medical Association (OMA) and the Ministry of Health and Long-Term Care (MOHTC) of Ontario Innovation Fund
Title: Regional anesthesia to improve outcomes after breast cancer surgery
Amount: $15,419
Principal Investigator: U Shastri
Co-Investigators: J Laffey, F Abdallah, R Brull

SPADAFORA, S
2013-2014
Royal College of Physicians and Surgeons of Canada, Faculty Development Grant
Title: Fostering humanism and professionalism through faculty role-models within a Canadian context
Amount: $5,000
Principal Investigator: P Brett-Maclean
Co-Investigators: S Spadafora, W Branch Jr., A Peterkin

SZABO, E
2013-2015
University of Toronto, Department of Anesthesiology 2013 Merit Award
Title: Defining gating pore current elicited signaling pathways in cardiac cells
Amount: $80,000
Principal Investigator: E Szabo
Co-Investigator: N/A

2012-2015
SickKids Foundation and CIHR
New Investigator Research Grant
Title: Understanding voltage-gated sodium channel related cardiomyopathy
Amount: $299,981
Principal Investigator: E Szabo
Co-Investigator: N/A

TARSHIS, J
2014-2016
Canadian Institutes of Health Research (CIHR)
Title: Acid versus placebo to reduce perioperative blood transfusion in patients undergoing major liver resection: a pilot randomized controlled trial
Award: $248,319
Principal Applicant: G Guyatt
Co-Applicants: P Chaudhury, E Dixon, Y Lin, S McCluskey, G Porter, J Tarshis, A Wei

TAYLOR, K
2014-2015
Hospital for Sick Children Innovation Fund
Title: Evaluating Precision of Therapy – Milrinone TDM
Amount: $10,000
Principal Investigator: K Taylor
Collaborator: C Parshuram

2013-2014
Hospital for Sick Children Innovation Fund
Title: A qualitative study of ‘outer-loop’ communications in resuscitations
Amount: $5,400
Principal Investigator: K Taylor
Collaborators: B Mema, S Ferri, C Hyslop
VENKATRAGHAVAN, L
2013-2015
Ontario AHSC AFP Innovation Fund
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 Venkatraghavan
Collaborators: D Mikulis, J Fisher, M Tymianski

2013
Epilepsy Canada – Summer Studentship
Title: Effects of anesthetic agents on the intracranial EEG activity – spectrographic analysis: a potential diagnostic tool for localization of seizure focus
Amount: $5,000
Principal Investigator: T Valiante
Collaborator: L Venkatraghavan

WELLS, G
2014
SickKids Summer Research Program (SSuRe) 2014 Subsidy, The Hospital for Sick Children Research Institute
Title: Neural and metabolic changes in the young athlete’s brain following exercise
Amount: $2,000
Principal Investigator: G Wells
Co-Investigators: S Thompson, F Callender

2013-2014
Canadian Institutes of Health Research (CIHR)
Title: Early identification of cardiac dysfunction in obese adolescents: mechanisms & modulation
Amount: $100,000
Principal Investigator: G Wells
Co-Investigators: L Banks, J Hamilton, B McCrindle, L Mertens, M Noseworthy

2013-2014
Ontario Ministry of Health. Research Program in Applied Sport Sciences
Title: Examining the effect of omega-3 supplementation on neuromuscular fatigue in cycling time trial
Amount: $10,000
Principal Investigator: T Wolver
Collaborators: G Wells, E Lewis

2013-2014
Ontario Ministry of Health. Research Program in Applied Sport Sciences
Title: On-hill active recovery to speed lactate clearance in alpine ski racers
Amount: $10,000
Principal Investigator: G Wells
Collaborator: G White

2013-2014
The Myositis Association (TMA), Operating Grant
Title: The effect of creatine supplementation on muscle function in childhood myositis
Amount: $25,035
Principal Investigator: B Feldman
Co-Investigator: G Wells

WJIEYSUNDERA, DN
2013-2015
Ontario AHSC AFP Innovation Fund
Title: An international multi-centre prospective cohort study of cardiopulmonary exercise testing for improving preoperative risk stratification for major non-cardiac surgery
Amount: $193,404
Principal Investigator: DN Wijeysundera
Collaborators: B Cuthbertson, J Granton, P Oh, WS Beattie, R Brull, C McCrternay, D Mazer, H Wijeysundera, A Smith, R Pearse, P Myles

2012-2016
Canadian Institutes of Health Research (CIHR), Operating Grant
Title: An international multi-centre prospective cohort study of cardiopulmonary exercise testing for improving preoperative risk stratification for major non-cardiac surgery
Amount: $225,000
Principal Investigator: H Zhang
Co-Investigator: A Slutsky

2013-2014
Ontario Thoracic Society – Grant-in-Aid
Title: Risk of outpatient colonoscopy, major inpatient surgery or ambulatory surgery in people with obstructive sleep apnea: a population based study
Amount: $22,310
Principal Investigators: C van Walraven, D McIsaac
Collaborators: DN Wijeysundera, A Gershon, GL Bryson, N Badner

WONG, J
2013-2015
Ontario AHSC AFP Innovation Fund
Title: Development and implementation of a perioperative smoking cessation program with computer-based patient education
Amount: $175,808
Principal Investigator: J Wong
Collaborators: F Chung, Z Friedman, R Davey, P Selby

ZHANG, H
2014-2016
Canadian Institutes of Health Research (CIHR), China-Canada Joint Health Research Initiative
Grant Title: Mechanisms of ventilator-induced lung injury and remodeling
Amount: $225,000
Principal Investigator: H Zhang
Co-Principal Investigator: A Slutsky

2013-2014
Department of Physiology Graduate Stimulus Package to support graduate student Arkady Babaev
Title: The effect of red blood cell-derived lipids on epithelial and endothelial injury
Amount: $10,000
Principal Investigator: H Zhang
Co-Investigator: N/A
Title: Non-Peer Reviewed Grants

**CHIN, KJ**
2014
Smith's Medical ASD Inc.
**Title:** Comparing programmed intermittent bolus with continuous infusion through a popliteal sciatic nerve catheter for analgesia following major ankle surgery
**Amount:** $35,300
**Principal Investigator:** KJ Chin
**Co-Investigators:** N/A

**DAVIES, S**
2011-2014
Abbott Laboratories – Online Continuing Education Website Development
**Title:** Smoking cessation program in the preoperative clinic: the combination of counseling, pharmacotherapy and quit line
**Amount:** $141,780
**Principal Investigator:** S Davies
**Co-Investigators:** N/A

**DJAIAANI, G**
2012-2013
Fresenius Kabi
**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
**Amount:** $74,000
**Principal Investigator:** G Djaiani
**Co-Investigators:** N/A

**FISHER, J**
2014-2016
GE Healthcare (formerly General Electric Medical Systems)
**Title:** Cerebrovascular reactivity as biomarker in mild traumatic brain injury – Head health sciences initiative
**Amount:** $300,000 USD
**Principal Investigator:** L Da Costa
**Collaborators:** J Fisher, P Howard, B MacIntosh

**KARKOUTI, K**
2014-2016
TEM International Gmb H/Helena Laboratories
**Title:** Blood conservation in cardiac surgery using a novel transfusion algorithm based on point-of-care testing: a stepped-wedge cluster randomized controlled trial
**Amount:** $400,000
**Principal Investigator:** K Karkouti
**Collaborators:** J Callum, M Crowther, H Grocott, V Rao, D Scales, DN Wijeyasurya

**LAUSSEN, P**
2012-2014
Boston Children's Hospital – Sterling Point Research LLC
**Title:** Risk assessment using non-invasive measurements in post-operative pediatric patients
**Amount:** $498,191 USD
**Principal Investigator:** E Butler, D Baronov
**Co-Investigators:** P Laussen, M Almodovar

**MAZER, D**
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
**Amount:** $168,000
**Principal Investigator:** D Mazer
**Co-Investigators:** L Errett

**O’LEARY, JD**
2014
SickKids Department of Diagnostic Imaging Research Seed Grant
**Title:** The effect of high energy exposure during magnetic resonance imaging on lymphocyte DNA integrity in children
**Amount:** $3,000
**Principal Investigator:** JD O’Leary
**Co-Investigators:** M Shroff, JT Maynes, V Chin
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- 9 GJ
- 40,013 60W light bulbs for one hour
- 2 kg NOX emissions of one truck during 6 days
