

Anesthesia  
UNIVERSITY OF TORONTO

# Anesthesia

2013-14 ANNUAL REPORT





# Table of Contents

---

2	<b>Chair's Introduction</b>
3	Vision, Mission and Values

---

4	<b>Anesthesia Leadership</b>
5	Department Committees
5	Fully Affiliated Hospitals
5	Community Affiliated Hospitals

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

---

12	<b>Enhancing Clinical Practice</b>
13	Clinical Statistics: Fully Affiliated Hospitals

---

14	<b>Anesthesia Education at the University of Toronto</b>
----	--

---

16	<b>Undergraduate Education Programs</b>
----	---

---

18	<b>Postgraduate Education Programs</b>
19	Residents 2013-2014

---

20	<b>Fellowship Programs</b>
20	Professors' Rounds for Fellows 2013-2014
21	Anesthesia Fellows 2013-2014

---

22	<b>Continuing Medical Education</b>
22	Course Development
22	Course Sponsorship

---

24	<b>Faculty Development</b>
----	----------------------------

---

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

---

45	<b>Invited Lecturers</b>
----	--------------------------

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63	<b>Research Funding</b>
63	Peer-Reviewed Grants
70	Non-Peer Reviewed Grants

# Chair's Introduction

Dr. Brian Kavanagh

We are one of the largest Anesthesia departments in North America – and certainly among the most productive

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,

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

**Brian Kavanagh**  
Professor and Chair



## OUR VISION

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

## OUR MISSION

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

## OUR VALUES

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

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

# Anesthesia Leadership

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## Office of the Chair and Executive

Dr. Brian Kavanagh ..... Chair	Dr. David McKnight..... Vice Chair, Education	Dr. Mark Crawford.... Anesthesiologist-in-Chief, The Hospital for Sick Children
Dr. Gerald O’Leary ..... Vice Chair, Clinical Practice, Anesthesiologist-in-Chief, Women’s College Hospital and University Health Network (TGH, TWH, MSH)	Dr. David Mazer..... Vice Chair, Research	Dr. John Laffey ..... Anesthesiologist-in-Chief, St. Michael’s Hospital
	Dr. Sue Belo..... Anesthesiologist-in-Chief, Sunnybrook Health Sciences Centre	Dr. Craig Daniels..... Business Manager

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## Undergraduate Education Programs

Dr. Isabella Devito ..... Director	Dr. Diana Tamir ..... Pre-clerkship Coordinator	Dr. Marjan Jariani ..... OSCE Committee Representative
Dr. Clyde Matava ..... Electives and e-Learning Coordinator	Dr. Anita Sarmah ..... Simulation Coordinator	Mr. Gary Cronin ..... Undergraduate Program Assistant

## Site Coordinators

Dr. Dragan Djordevic..... Women’s College Hospital	Dr. Suzanne Lilker ..... St. Joseph’s Health Centre	Dr. Larry Panos..... The Scarborough Hospital – General Division
Dr. Christopher Flynn .... Trillium Health Centre	Dr. Carol Loffelmann .... St. Michael’s Hospital	Dr. Anita Sarmah ..... Sunnybrook Health Sciences Centre
Dr. Andrew Green ..... Trillium Health Centre	Dr. Patrick Mark ..... Toronto East General Hospital	Dr. Alan Tallmeister..... The Scarborough Hospital – Birchmount
Dr. Marjan Jariani ..... UHN (Toronto General Hospital)	Dr. Clyde Matava ..... The Hospital for Sick Children	Dr. Diana Tamir ..... UHN (Toronto General Hospital)
Dr. Mital Joshi ..... Mount Sinai Hospital	Dr. Ahtsham Niazi..... UHN (Toronto Western Hospital)	

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## Postgraduate Education Programs

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

## Site Coordinators

Dr. Lisa Bahrey..... UHN (Toronto General Hospital)	Dr. Alayne Kealey ..... Sunnybrook Health Sciences Centre	Dr. Martin Ma..... UHN (Toronto General Hospital)
Dr. Deven Chandra..... St. Michael’s Hospital	Dr. Kyle Kirkham ..... UHN (Toronto Western Hospital)	Dr. Elaine Ng..... The Hospital for Sick Children
Dr. Vaibhav Kamble..... Toronto East General Hospital	Dr. Henderson Lee ..... Family Practice Anesthesia Program	Dr. Arun Prasad ..... Women’s College Hospital/ TWH
		Dr. Aliya Salman ..... Mount Sinai Hospital

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## Fellowship Education Programs

Dr. Doreen Yee..... Director, Fellowship & International Graduate Programs	Ms. Jennifer Morris..... Program Assistant
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## Site Coordinators

Dr. Ki Jinn Chin..... UHN (Toronto Western Hospital)	Dr. Andrea Rigamonti .... St. Michael’s Hospital	Dr. Coimbatore Srinivas..... UHN (Toronto General Hospital)
Dr. Paul McHardy ..... Sunnybrook Health Sciences Centre	Dr. Naveed Siddiqui..... Mount Sinai Hospital	Dr. Ilavajady Srinivasan ..... The Hospital for Sick Children

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## 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
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## Faculty Development Programs

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

Executive Committee	B. Kavanagh (Chair), S. Belo, M. Crawford, C. Daniels, J. Laffey, D. Mazer, D. McKnight, G. O'Leary
Education Council	D. McKnight (Chair), I. Devito, J. Hanlon, B. Kavanagh, H. Lee, M. Levine, J. Morris (Secretary), C. Ringstead, P. Slinger, M. van der Vyver, D. Yee
Department Appointments Committee	B. Macpherson (Chair), S. Halpern, C. Loffelmann, C. Daniels (Secretary), M. O'Driscoll, A. Perlas
Promotions Committee	M. Crawford (Chair), S. Beattie, R. Brull, F. Chung, J. Katz, B. Kavanagh, J. Laffey, D. Mazer, B. Orser, J. Tarshis, J. Wassermann
Continuing Medical Education/ Professional Development	P. Slinger (Chair), 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
Faculty Development	M. van der Vyver (Chair), L. Bahrey, K. Kanduja, B. Kavanagh, C. Matava, D. McKnight, N. Lo, S. Lilker, S. Riazi, P. Slinger
Fellowship Education Committee	D. Yee (Chair), K.J. Chin, P. McHardy, D. McKnight, J. Morris (Secretary), A. Rigamonti, N. Siddiqui, C. Srinivas, I. Srinivasan
Postgraduate Education Committee	M. Levine (Chair), 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)
Research Committee	D. Mazer (Chair), A. Baker, S. Beattie, M. Crawford, Z. Friedman, S. Halpern, S. Kapoor, B. Kavanagh, M. Levine, A. MacArthur, D. McKnight, B. Orser, G. Petroz, D. Yee
Undergraduate Education Committee	I. Devito (Chair), 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. Lilker, 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)
Faculty Development Day 2013 Planning	M. van der Vyver (Chair), G. Cronin, C. Daniels, B. Kavanagh, C. Matava, J. Morris, S. Riazi
Shields Day 2014 Planning Committee	Z. Friedman (Chair), G. Cronin, C. Daniels, B. Kavanagh, J. Morris

## 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](http://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 35<sup>th</sup> 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 Neuroanesthesia: [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 LORELLO](#) "*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:

Recipient	Hospital	Project Title	Award Value/Annum
Mrinalini Balki	UHN-MSH	In-vitro and in-vivo approaches to improve treatment options for PPH in high-risk women.	\$40,000
Andrew Baker	St. Michael's Hospital	Endothelial progenitor cells in mild traumatic brain injury: biomarker and mechanisms in recovery.	\$40,000
W. Scott Beattie	UHN-TGH	Defining safe processes of care that reduce the Impact of Perioperative Myocardial Infarction.	\$40,000
Richard Brull	UHN-TWH	The facilitatory effects of perineural dexmedetomidine for interscalene block.	\$40,000
Ki Jinn Chin	UHN-TWH	Validation of the analgesic efficacy of the Transversalis Fascia Plane (TFP) block – a novel technique in iliac crest bone graft harvesting.	\$40,000
Hance Clarke	UHN-TGH	The transition from acute to chronic postsurgical pain: a multicentre prospective study.	\$40,000
Brian Cuthbertson	Sunnybrook Health Sciences Centre	SuDDICU randomized clinical trial.	\$40,000
George Djaiani	UHN-TGH	Inhalational anesthesia and precipitation of dementia: is there a link?	\$40,000
Joseph Fisher	UHN-TGH	Application of automated precise control of arterial blood partial pressure of gases: CO <sub>2</sub> , O <sub>2</sub> , CO and anesthetic vapours.	\$40,000
Greg Hare	St. Michael's Hospital	Treatment of anemia to improve patient outcomes: a translational research program.	\$40,000
Keyvan Karkouti	UHN-TGH	What causes transfusion-related acute organ injury and how can it be avoided?	\$40,000
John Laffey	St. Michael's Hospital	Optimising the therapeutic potential of human Mesechymal Stromal Cells (hMSCs) for Acute Respiratory Distress Syndrome.	\$40,000
Jason Maynes	The Hospital for Sick Children	The use of iPSC-derived cardiomyocytes as models for drug toxicity.	\$40,000
David Mazer	St. Michael's Hospital	Reducing adverse outcomes in cardiac surgery related to tissue hypoxia.	\$40,000
Colin McCartney	Sunnybrook Health Sciences Centre	OPRA: Optimizing Pain and Rehabilitation after Knee Arthroplasty?	\$40,000
Sheila Riazi	UHN-TWH	Skeletal muscle bioenergetics and mitochondrial function in malignant hyperthermia patients (MHS).	\$40,000
Charlotte Ringsted	UHN-TGH	Research program in anesthesia education and practice.	\$40,000
Elod Szabo	The Hospital for Sick Children	Defining gating pore current elicited signaling pathways in cardiac cells.	\$40,000
Marcin Wasowicz	UHN-TGH	Thinking outside of the box – innovations in peri-operative medicine.	\$40,000
Duminda Wijeyesundera	UHN-TGH	Improving perioperative risk assessment and outcomes: an integrated research program.	\$80,000

### Education And CPA Merit Awards:

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

## Additional Awards and Honours

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

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### FARAJ ABDALLAH

- Best of Category Abstract, International Anesthesia Research Society (IARS) Annual Meeting, Montreal, Canada. Awarded to abstract titled: “*Can Ultrasound Scan of the Airway be used to Predict Difficulty of Airway Management? A Computerized Tomography Validation Study.*” Abdallah FW, Abbas S, Cholvisudhi P, Chan VW, Yu E, 2014

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### PAMELA ANGLE

- Past Chair of the Obstetric Section of the Canadian Anesthesiologists’ Society, 2013– 2015

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### SINZIANA AVRAMESCU

- Junior Faculty Research Award from the Association of University Anesthesiologists (AUA), 2014
- Best of the Meeting Abstract Award for Basic Science, International Anesthesia Research Society (IARS) Annual Meeting Awards, Montreal, Quebec, 2014
- The Society for Neuroscience in Anesthesiology and Critical Care (SNACC) Award, International Anesthesia Research Society (IARS) Annual Meeting Awards, Montreal, Quebec, 2014
- The Best in the Category Award, International Anesthesia Research Society (IARS) Annual Meeting Awards, Montreal, Quebec, 2014

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### ANUJ BHATIA

- Fellowship Teaching Award, Mount Sinai Hospital and University Health Network Department of Anesthesia and Pain Management Teaching Award, 2013

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### FIONA CAMPBELL

- Innovation Award, Wikidea Competition: ‘Taking SickKids Mobile,’ The Hospital for Sick Children, 2013

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### HERMAN CHAN

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

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### 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

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### KI JINN CHIN

- Postgraduate Education Individual Teaching Excellence Award, Wightman-Berris Academy, Mount Sinai Hospital and University Health Network, 2013

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### FRANCES CHUNG

- Royal College McLaughlin-Gallie visiting Professor, Royal College of Physicians and Surgeons of Canada (Distinction), 2013

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### HANCE CLARKE

- Clinical Pain Management Fellowship Award, Canadian Pain Society, 2013

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### PETER COX

- 1<sup>st</sup> Annual Patient Safety Humanitarian Award, presented by former US President and Keynote Speaker Bill Clinton at the 2<sup>nd</sup> 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

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### 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

- Thorax (British Medical Journals) Best Basic Science Paper of 2012, London, United Kingdom, 2013
- International Anesthesia Research Society (IARS) Mentored Research Award, International Anesthesia Research Society, San Francisco, California, 2013
- Clinician Scientist Transition Award, University of Toronto, 2013

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### 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

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### 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

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### MARCO GARAVAGLIA

- Education Achievement Award, Art Dunn Undergraduate Student, Department of Anesthesia, St. Michael’s Hospital, University of Toronto, 8<sup>th</sup> Annual St. Michael’s Education Achievement Day for Physicians, 2013

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**GREGORY HARE**

- Best Abstract Award, Combined meeting of Asian Australasian Congress of Anaesthesiologists (AACAA) 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

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**EDGAR HOCKMANN**

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

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**HELEN HOLTBY**

- President, Congenital Cardiac Anesthesia Society, 2012-2014

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**PATRICIA HOUSTON**

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

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**JOEL KATZ**

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

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**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

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**KYLE KIRKHAM**

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

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**SALIMA LADAK**

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

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**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

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**MARK LEVINE**

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

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**CLYDE MATAVA**

- 1<sup>st</sup> 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

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**JASON MAYNES**

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

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**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



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**JAMES O'LEARY**

- Doctorate in anesthesia research, University College Cork, Ireland, 2014

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**BEVERLEY ORSER**

- Mary Burnell Medal and Memorial Lecture. Keynote address: *Understanding memory loss after anesthesia*, Australian and New Zealand Colleges of Anaesthetists and Surgeons, Singapore, 2014
- 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

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**ELISE PARADIS**

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

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**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

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**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

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**SUNITA SASTRY**

- MSH-UHN Department of Anesthesia and Pain Management Postgraduate Teaching Award, Toronto, Canada, 2013

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**PETER SLINGER**

- MSH-UHN Department of Anesthesia and Pain Management Teaching Award. Continuing Medical Educational Development Award, Toronto, Canada, 2013

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**ADAM SNYMAN**

- Respect in Motion Award of Excellence, University Health Network, Toronto, Canada, 2013
- MSH-UHN Department of Department of Anesthesia and Pain Management Teaching Award: The Dr. David Bevan Award for Excellence in Inter-Professional Education, Toronto, Canada, 2013

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**ILAVAJADY SRINIVASAN**

- The Dr. Robert Creighton Award for Excellence in Resident Clinical Teaching, The Hospital for Sick Children, Department of Anesthesia and Pain Medicine, University of Toronto, 2014

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**JORDAN TARSHIS**

- Chair, Section on Education and Simulation, Canadian Anesthesiologists' Society (CAS), 2014

- Co-Chair, Royal College of Physicians and Surgeons of Canada Simulation Summit, 2014

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**KATHERINE TAYLOR**

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

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**JEFF WASSERMANN**

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

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**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

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**DUMINDA WIJEYSUNDERA**

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

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**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

**One of the hallmarks of being an anesthesiologist is that we like to identify potential problems and to develop plans to avoid them.**

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 provide 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 or should they occur, to respond in a logical calm fashion to mitigate harm.

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

	TGH	TWH	Mount Sinai	Sunnybrook	St. Michael's	Hospital For Sick Children	Total – All Sites
<b>General Anesthetics:</b>	7,878	6,803	8,735	12,380	14,992	22,319	73,107
<b>Regional Anesthetics:</b>	956	4,300	6,746	3,220	2,829	7,846	25,897
<b>Deliveries:</b>	n/a	n/a	7,229	4,235	2,933	n/a	14,397
<b>Epidurals/spinals:</b>	--A	--A	--A	2,551	1117	490	4158
<b>Caesarian sections:</b>	n/a	n/a	2,523	1,453	791	n/a	4767
<b>Caesarian section rate:</b>	n/a	n/a	34.9%	34%	27%	n/a	33.1%
<b>Pain clinic cases:</b>	n/a	717	n/a	n/a	2,629	593	3939
<b>Acute pain service:</b>	4,709	2,701	2,500	5,000	3,996	939	19,851
<b>ICU beds:</b>	53	23	16	69	69	n/a	230

Note:

A TGH, TWH and MSH Regional Anesthetics numbers include Epidurals/Spinals



# Anesthesia Education at the University of Toronto

Report from Dr. David McKnight, Vice Chair, Education

The University of Toronto Department of Anesthesia is a leader in anesthesia education due to the excellence and hard work of many people.

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

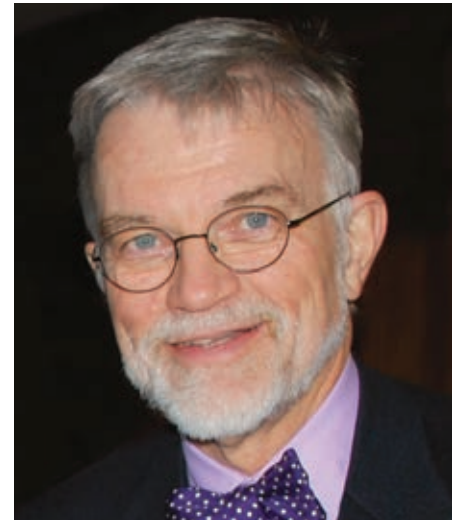
introduction of the “flipped classroom” in the anesthesia rotation, the effective expansion of use of simulation, and the introduction of the anesthesia clerkship in the Mississauga Academy of Medicine.

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



YVVER’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 the many people you will read about in this report and many, many more. I extend my congratulations to them on their achievements and my acknowledgement of and gratitude for their hard work.







# Undergraduate Education Programs

Report from Dr. Isabella Devito, Director, Undergraduate Education Program

**Our remarkable teaching faculty continue to be our greatest resource. Without them, the success of our program would not be possible.**

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 finalization 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

**The specialty of Anesthesia continues to be a popular choice for graduating medical students.**

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.

## Residents 2013-2014

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### PGY5

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

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### PGY4

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

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### PGY3

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

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### PGY2

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

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### PGY1

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

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(CIP) – Clinical Investigator Program

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# Fellowship Programs

Report from Dr. Doreen Yee, Director, Fellowship Programs

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

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

Date	Topic	Speaker
September 30	Update on malignant hyperthermia – Are Canadians hot?	Dr. Sheila Riazzi
October 31	Bedside ultrasound in acute care medicine – interactive clinical cases.	Dr. Peter Steinmetz (McGill)
November 29	Game changers – The 20 most important articles ever published in the specialty.	Dr. Paul Barash
January 27	Strengths & weaknesses of protocols and guidelines.	Dr. Brian Kavanagh
March 31	Anesthetics & metabolism: from brain development to cancer metastasis.	Dr. Jason Maynes
May 12	Morbidly obese patients: a challenge for everyone?	Dr. Frances Chung
June 2	Long term memory loss – the unavoidable cost of anesthesia??	Dr. Beverley Orser

## Anesthesia Fellows 2013-2014

### The Hospital for Sick Children

Bal Krishnan, Sindu..... India	Moulton, Dagmar..... Canada	Richards, Elizabeth..... Australia	Skelton, Teresa..... Canada
Laskine-Holland, Marie-Laure .....Canada	Chin, Vanessa..... Jamaica	Finnerty, Olivia ... United Kingdom	Howell, Victoria .. United Kingdom
Bunbury, Dean ..... Australia	Obara, Soichiro..... Japan	Schwartz, Amanda..... Canada	Stocki, Daniel..... Israel/Sweden
	Cyr, Jason Denis ..... Australia	Heather, David ..... Australia	

### Mount Sinai Hospital

Ali, Ashraf Moussa ..... United Kingdom	Clivatti, Jefferson.....Brazil	Oliveira, Katia .....Brazil	Jeffery, Andrew..... Canada
Lee, Sang ..... Canada	Merah, Anne ..... Canada	Gurevich, Lev ..... Israel	Vyakernam, Ramakrishna... United Kingdom
Alraffa, Abdulla ..... Saudi Arabia	De Guzman, Cecilia ....Philippines	Petrounevitsh, Vitali..... Canada	Klerk, Floris ..... The Netherlands
Manickavasagam, Uma..... United Kingdom	Monks, David ..... United Kingdom	Hoppe, David ..... Australia	Singer, Oskar..... Canada
	Ghafari, Mohammad ..... Iran		

### St. Michael's Hospital

Alrashedi, Khaled ..... Egypt	Pakrou, Dana ..... Australia	George, Thomas ..... South Africa	Tiwari, Akhilesh ..... India
Mathers, Jonathan ..... United Kingdom	Contreras, Maya ..... Ireland	Scott, William ..... Scotland	Kaplan, Lindy ..... Australia
Bitcon, Charles..... Australia	Parotto, Matteo .....Italy	Haley, Christopher ..... United Kingdom	Whei-Lee, Chuan ..... Australia
McAuliffe, Niamh ..... Ireland	Dowling, John.....Ireland	Soliman, Waleed ..... Canada	Kelly, Catriona.....Ireland
Builes-Gomez, Johana.....Spain	Ramanani, Mariappan ..... India	Hanumanthaiah, Deepak ..... India	

### Sunnybrook Health Sciences Centre

Cordovani, Daniel .....Brazil	Goh, Yvonne.....Singapore	Kong, Grace ..... Canada	Moreira, Thiago .....Brazil
Peng, Yvonne ..... Canada	Rastogi, Sachin .. United Kingdom	Singh, Mandeep ..... India	Turbitt, Lloyd..... United Kingdom
Daher, Mauricio.....Brazil	Isaac, Raj ..... United Kingdom (P.R. Canada)	Kuszewski, Peter ..... Canada	Nix, Catherine .....Ireland
Percival, Vanessa ..... Australia	Schramm, Belinda..... Australia	Tavakkolizadeh, Moein ..... United Kingdom	Vanza, Neil ..... Australia
Garg, Rahul..... Australia	Ju, Hui .....China	Lee, Steven..... Canada	Pandya, Seema..... India (P.R. Canada)
Perlman, Ryan..... Canada	Singer, Oskar..... Canada	Tharakan, Liza... United Kingdom	

### UHN – Toronto General Hospital

Ashes, Catherine..... Australia	McKenny, Michael ..... Ireland	Hart, Sheila ..... Australia	Kluger, Michael ..... Australia
Lyn, Sheldon..... Canada	Doherty, Margaret ..... Ireland	Rochet, Maria Jose Cordero .. Chile	Starzyk, Lukasz ..... Germany
Cheng, Maureen ..... Ireland	Moreno, Jacobo ..... Spain	Hastings, Stuart ..... Australia	Lightfoot, Nicholas ... New Zealand
Mace, Hamish..... Australia	Doufle, Ghislaine ..... France	Sainsbury, Jennifer ..... United Kingdom	Sun, Louise..... Canada
Chui, Jason ..... China	Puentes, Wilfredo ..... Columbia		

### UHN – Toronto Western Hospital

Abdullah, Hairil .....Singapore	Burckett-St. Laurent, David ..... United Kingdom	Farag, Naguib..... Egypt	Sundararajan, Rajinikanth ..United Kingdom
Moga, Rebecca ..... Canada	Ping Tan, Tze ..... Australia	Sehmbi, Herman .. United Kingdom	Kruisselbrink, Richelle ..... Canada
Alakkad, Husni ..... Canada	Correa, Denis ..... UAE	Gharapetian, Angineh..... Canada	Tan, Audrey..... United Kingdom
Moodley, Alastair ..... South Africa	Rakhman, Evgeny ..... Israel	Shah, Ushma .... United Kingdom	Madjdpur, Caveh ..... Switzerland
Arekapudi, Anil ..... India	Cruz Eng, Hillenn ..... Honduras	Harris, Michelle..... Australia	Tedder, Alison ..... South Africa
Nagappa, Mahesh ..... India	Raveendran, Raviraj ..... India	Soneji, Neilesh ..... Canada	Mehta, Arpan ..... United Kingdom
		Johnson, James..... Australia	

# Continuing Medical Education

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

The committee endeavors to ensure that most CE activities qualify for University of Toronto sponsorship and are accredited learning activities.



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:

Course	Date(s)	Course Organizer
Obstetric Anesthesia	Sept 21-22, 2013	Jose Carvalho
Regional Anesthesia Mini Workshops	Oct 4-6, 2013 Nov 1-2, 2013 Nov 29-30, 2013	Vincent Chan
Focused Transthoracic Echocardiography	Oct 5, 2013 May 31, 2014	Annette Vegas
Continuous Peripheral Nerve Blocks for Major Orthopedic Surgery	Oct 18, 2013	Martin Van der Vyver
Malignant Hyperthermia Scientific Congress	Nov 1-2, 2013	Sheila Riazi
Perioperative Transesophageal Echocardiography Symposium	Nov 2-3, 2013	Massimiliano Meineri
Ultrasound for Pain Medicine Workshop	Nov 4-6, 2013	Philip Peng
Pediatric Anesthesia	Nov 8-10, 2013	Elizabeth McLeod
Anesthesia Faculty Development Day	Nov 11, 2013	Martin Van der Vyver
Mendelsohn Lecture	Nov 29, 2013	Elizabeth AuYeung
Toronto Anesthesia Practice	Nov 30-Dec 1, 2013	Elizabeth AuYeung
Advanced Ultrasound for Pain Medicine	Feb 22-23, 2014	Philip Peng
St. Michael's Hospital Echocardiography Preceptorship	Mar 17-21, 2014	Han Kim
Toronto Anesthesia Symposium	Apr 13-14, 2014	Peter Slinger
Annual Shields Research Day	May 9, 2014	Zeev Friedman
International Symposium on Ultrasound for Regional Anesthesia	Jun 21-24, 2014	Vincent Chan

## Future Anesthesia CME Courses Include:

Course	Date(s)	Course Organizer
RCPSC Simulation Summit	Sept 11-13, 2014	Jordan Tarshis
St. Michael's Hospital Anesthesia Echocardiography Preceptorship	4-day program, quarterly	Han Kim
Regional Anesthesia Mini Workshops	Oct, 2014 Nov, 2014 May, 2015 June, 2015	Vincent Chan
Obstetric Anesthesia	Sept 26-27, 2014	Jose Carvalho
Continuous Peripheral Nerve Blocks for Major Orthopedic Surgery, Preceptorship Course.	Oct 17, 2014	Martin Van der Vyver
Perioperative Trans-esophageal Echocardiography Symposium	Nov 1-2, 2014	Jo Carroll
Ultrasound for Pain Medicine Workshops	Nov, 2014	Christine Drane
Anesthesia Faculty Development Day	Nov 11, 2014	Martin Van der Vyver
Mendelson lecture	Nov 28, 2014	Adriaan Van Rensburg
Toronto Interactive Anesthesia	Nov 29-30, 2014	Adriaan Van Rensburg
Toronto Anesthesia Symposium	Apr, 2015	David Wong
Shields Day	May 8, 2015	Zeev Friedman
Controversies in Perioperative Medicine	May, 2015	Mark Friedlander

## 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 ofT Anesthesia Department website [www.anesthesia.utoronto.ca](http://www.anesthesia.utoronto.ca) under: Education/Continuing Medical Education.

### 2) Web-Based Bronchoscopy Simulator

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

# Faculty Development

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

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

Our aim is to plan and implement 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*”

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.

#### This was followed by small group sessions on the following topics:

- Easy as ABC – exploring and developing web-based teaching materials for medical education (**DR. CLYDE MATAVA**)



- Is it hot in here? Is your OR an incubator for helping learners towards adaptive expertise (**DR. MARIA MYLOPOULOS**)
- 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

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

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

**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

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.

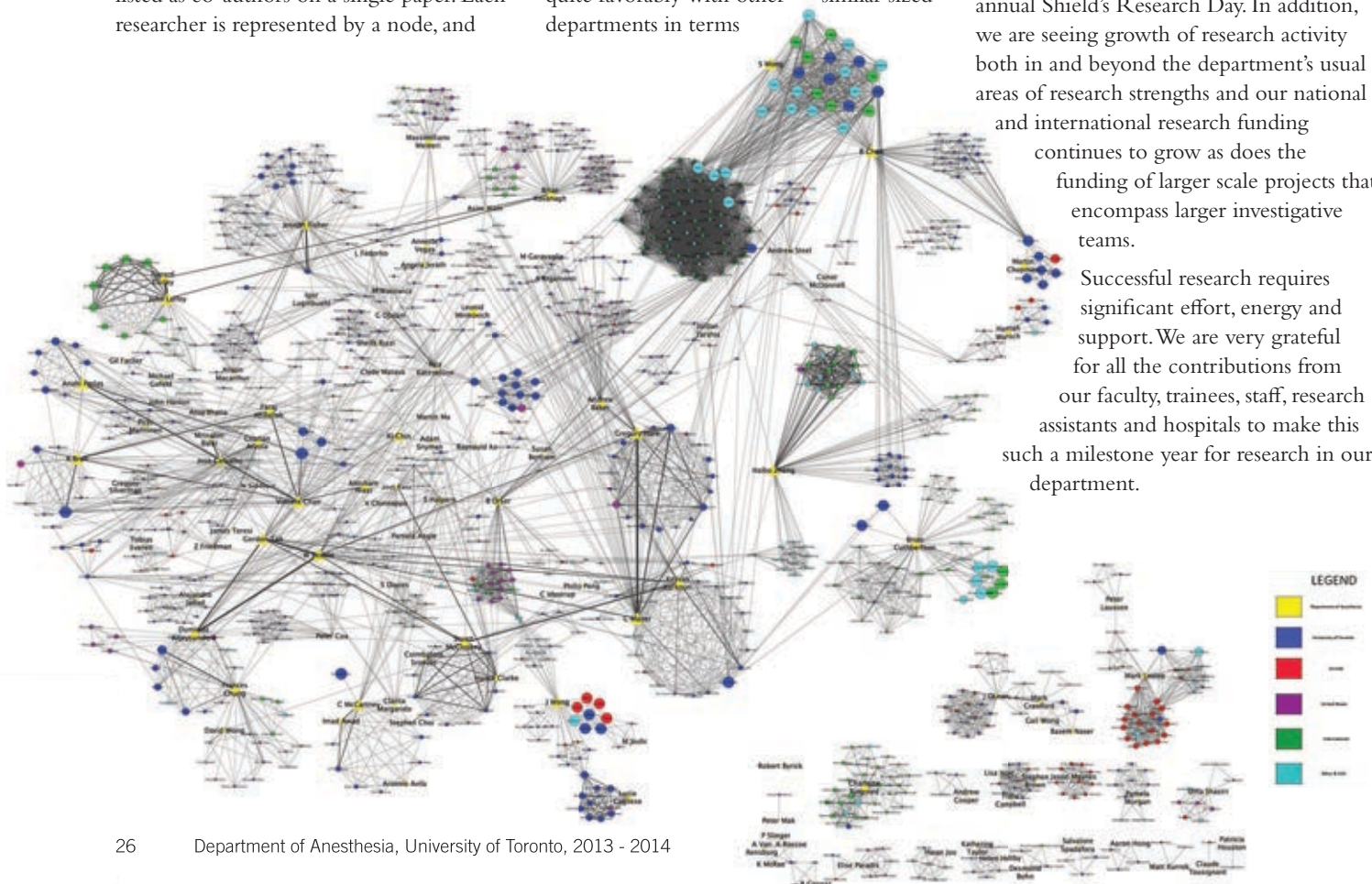


each co-published paper is represented by a line. The size of each node is correlated to the number of publication citations and the width of each line is correlated to the number of collaborations between the connected nodes. Different colors are used to denote the authors' affiliations. In this analysis, 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.



Institution	Web of Science Publications (2013)	2013 Rank	2012 Rank	Times Cited	% Publications Cited	% Publications in Institution	% Publications in Subject Area
Harvard Univ	142	1	1	120	40.8	0.71	3.62
<b>Univ Toronto</b>	<b>123</b>	<b>2</b>	<b>2</b>	<b>76</b>	<b>32.5</b>	<b>1.12</b>	<b>3.14</b>
Univ Washington	73	3	3	61	49.3	0.94	1.86
Univ Penn	53	4	5	32	26.4	0.71	1.35
Univ Michigan	48	5	15	36	33.3	0.54	1.22
Johns Hopkins Univ	45	6	4	42	44.4	0.53	1.15
McGill Univ	44	7	7	31	43.2	0.79	1.12
Univ Calif San Francisco	42	8	6	50	28.6	0.76	1.07
Duke Univ	37	9	8	23	27.0	0.63	0.94
Univ Pittsburgh	37	10	16	24	43.2	0.62	0.94
Columbia Univ	36	11	11	26	36.1	0.52	0.92
Northwestern Univ	36	12	10	25	33.3	0.71	0.92
Stanford Univ	35	13	9	27	37.1	0.45	0.89
Vanderbilt Univ	31	14	14	26	41.9	0.76	0.79
Univ British Columbia	30	15	12	17	33.3	0.47	0.77
Univ Iowa	30	16	18	27	40.0	0.96	0.77
Yale Univ	28	17	13	3	10.7	0.47	0.71
Univ Florida	27	18	17	20	37.0	0.50	0.69
Washington Univ	27	19	31	21	33.3	0.64	0.69
Mcmaster Univ	25	20	37	22	40.0	0.77	0.64
Univ Montreal	24	21	20	17	45.8	0.58	0.61
Univ Ottawa	21	22	27	14	38.1	0.70	0.54
Western Univ (Univ Western Ontario)	20	23	30	9	20.0	0.68	0.51
Queens Univ	18	24	33	14	50.0	1.06	0.46
Univ Calif San Diego	18	25	21	18	50.0	0.28	0.46
Univ Rochester	17	26	35	6	29.4	0.68	0.43
Dalhousie Univ	16	27	32	12	37.5	0.89	0.41
Univ Alberta	16	28	34	10	43.8	0.33	0.41
Univ Calif Los Angeles	16	29	24	9	25.0	0.21	0.41
Univ N Carolina Chapel Hill	16	30	29	16	50.0	0.30	0.41
Ohio State Univ	15	31	36	7	13.3	0.26	0.38
Case Western Reserve Univ	14	32	55	3	21.4	0.55	0.36
Cornell Univ	13	33	22	15	38.5	0.22	0.33
Univ Calif Irvine	13	34	25	10	46.2	0.40	0.33
Univ Chicago	13	35	23	9	61.5	0.23	0.33
Univ Virginia	13	36	28	11	38.5	0.46	0.33
Univ Wisconsin Madison	11	37	26	5	27.3	0.18	0.28
Penn State Univ	10	38	47	6	50.0	0.19	0.26
Univ Calif Davis	10	39	41	3	10.0	0.18	0.26
Univ Laval	10	40	44	5	30.0	0.43	0.26
Univ Manitoba	10	41	45	8	50.0	0.49	0.26
Emory Univ	9	42	19	12	55.6	0.22	0.23
Rutgers State Univ	9	43	46	7	33.3	0.22	0.23
Univ Minnesota	9	44	38	4	22.2	0.14	0.23
New York Univ	8	45	40	10	50.0	0.18	0.20
Suny Buffalo	8	46	50	5	37.5	0.38	0.20
Univ Calgary	7	47	39	5	57.1	0.21	0.18
Indiana Univ	6	48	60	7	83.3	0.14	0.15
Suny Stony Brook	6	49	49	5	33.3	0.30	0.15
Univ Arizona	6	50	42	6	50.0	0.17	0.15
MIT	5	51	51	9	60.0	0.08	0.13
Tulane Univ	5	52	62	0	0.0	0.43	0.13
Univ Saskatchewan	4	53	53	1	25.0	0.24	0.10
Michigan State Univ	3	54	52	1	33.3	0.08	0.08
Univ Kansas	3	55	61	1	33.3	0.14	0.08
Boston Univ	2	56	48	3	50.0	0.06	0.05

# Annual Shields Research Day 2014

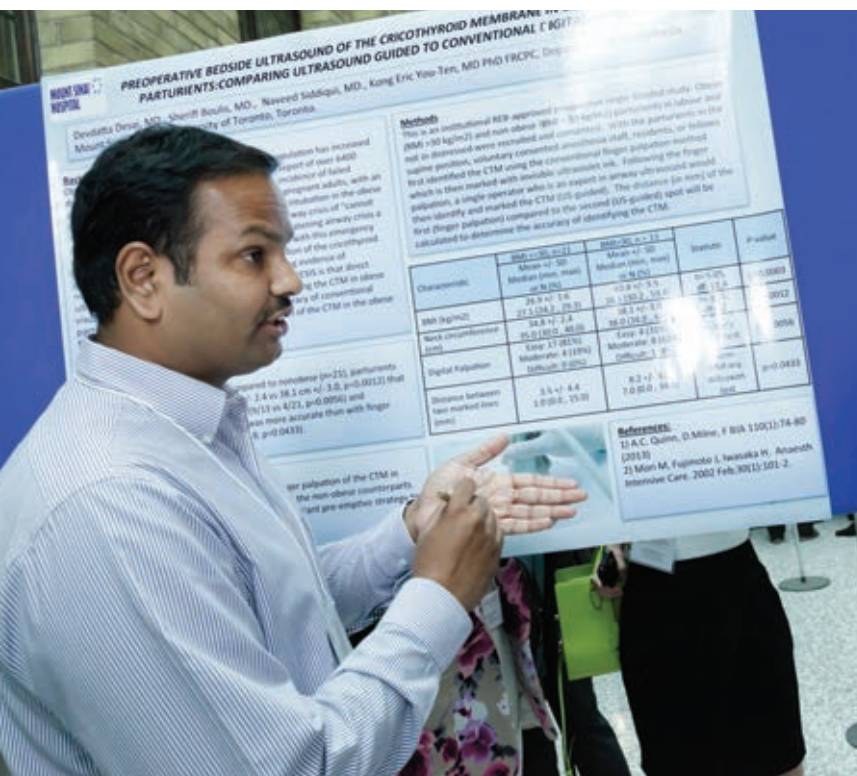
## Report from Dr. Zeev Friedman, Chair, Annual Shields Research Day

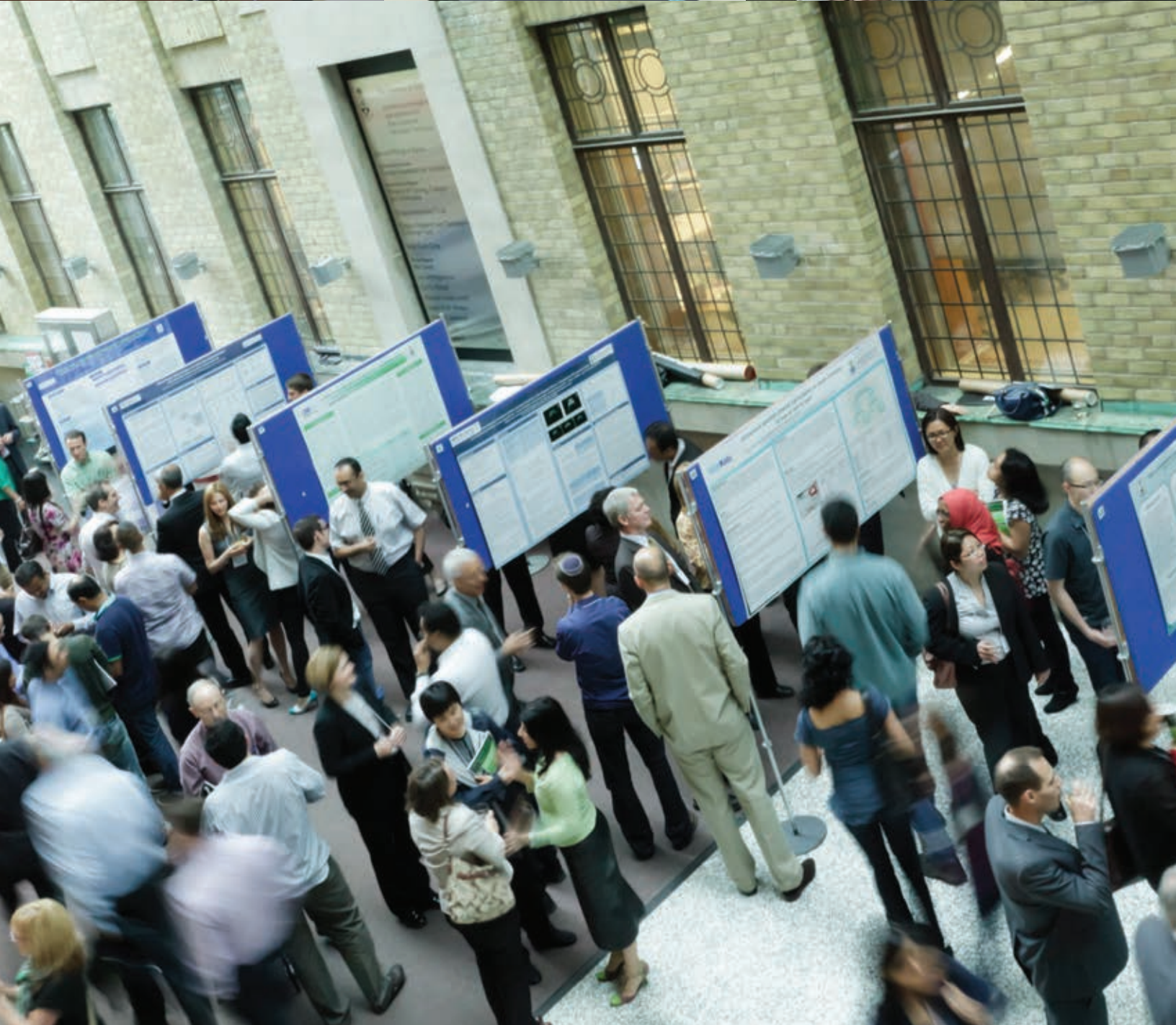
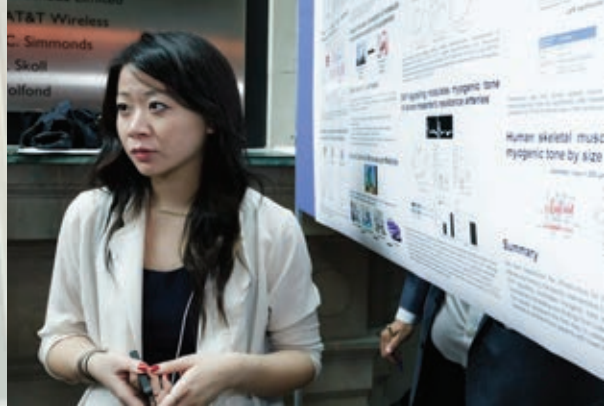
The 35<sup>th</sup> Annual Shields Research Day was held this year before a hall packed (as usual) with members of the University of Toronto Anesthesia Department. It featured a variety of cutting-edge research projects presented by the department trainees. 62 abstracts were submitted this year. These 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 36<sup>th</sup> Annual Shields Research Day.





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## Chapters in Books

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- HASSETT P, LAFFEY JG, KAVANAGH BP.** Hypercapnia. In: *Pediatric and Neonatal Mechanical Ventilation*, Rimensberger PC (ed.), Springer-Verlag, Berlin, 2013
- ISAAC L, BROWN SC, TYRRELL T, MCGRATH PA.** Chronic Opioid Therapy in Childhood and Adolescence. Expert Decision Making on Opioid Treatment. Jane C, Ballantyne (eds). Oxford University Press, New York, 2013
- JAECKLIN T, KAVANAGH BP.** Mechanisms of Ventilator-Induced Lung Injury. In: *Pediatric and Neonatal Mechanical Ventilation*, Rimensberger PC (ed.), Springer-Verlag, Berlin, Germany, 2013
- KAVANAGH BP, HEDENSTIER-NA G.** Respiratory Physiology. In: *Miller's Anesthesia* (7th Edition), Miller RD, Eriksson LI, Fleisher LA, Weiner-Kronish JP, Young WL (eds.), Elsevier-Churchill Livingstone, Philadelphia, 2013
- KORNECKI A, KAVANAGH BP.** Patient-Ventilator Interactions. In: *Pediatric and Neonatal Mechanical Ventilation*, Rimensberger PC (ed.), Springer-Verlag, Berlin, 2013
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- RASTOGI S, CAMPBELL F.** Drugs for Neuropathic Pain. In: *The Oxford Textbook of Pediatric Pain*. McGrath P, Stevens B, Walker S, Zempsky W (eds.), Oxford University Press, New York, 2013
- ROTTA A, WESSEL DL, LAUSSEN PC.** Pediatric Cardiac Intensive Care. In: *Comprehensive Surgical Management of Congenital Heart Disease* (2nd Edition), Jones RA (ed.), Taylor & Francis, London, United Kingdom, 2014
- TSUCHIDA S, KAVANAGH BP.** Ventilator-Induced Lung Injury. In: *Pediatric Critical Care Medicine* (2nd Edition), Shanley T, Wheeler D, Wong HR. Springer-Verlag, London, 2014
- 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
- WADDELL J, LO N ET AL.** Quality Based Procedures: Clinical Handbook for Primary Hip and Knee Replacement. Health Quality Ontario & Ministry of Health and Long-Term Care, 2014

## Apps

- MEINER M, VEGAS A AND PIE.** TTE Standard Views. Multimedia. Ipad mobile app at <https://itunes.apple.com/ca/app/tte-standard-views/id660856485?mt=8>
- MEINER M, VEGAS A AND PIE.** TTE FOCUS Views. Multimedia. Ipad mobile app at <https://itunes.apple.com/ca/app/tte-focus-views/id660850978?mt=8>

# Invited Lecturers

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## 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

*"An update on adjuvants and novel drugs: dexmedetomidine, dexamethasone, and liposomal bupivacaine"*

- International Symposium on Ultrasound Regional Anesthesia and Pain Medicine (ISURA) Annual meeting, St. Michael's College, Toronto, June 2014

*"Ultrasound scanning of the airway"*

- 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"*

- International Symposium on Ultrasound Regional Anesthesia and Pain Medicine (ISURA) Annual meeting, St. Michael's College, Toronto, Ontario, June 2014

*"Ultrasound-guided thoracic paravertebral and breast blocks"*

- American Society of Regional Anesthesia Annual Meeting (ASRA), Chicago, Illinois, April 2014

*"Ultrasound-guided thoracic paravertebral blocks: techniques, challenges and benefits"*

- 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"*

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## ARZOLA, C

- 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 for neuraxial blocks"*

- Toronto Anesthesia Symposium, Toronto, Ontario, April 2014

*"The use of spinal ultrasound to facilitate spinals and epidurals"*

- 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"*

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## AWAD, I

- University of Toronto seminar for PGY2. Sunnybrook Hospital, Toronto, Ontario, November 2013

*"Ultrasound guided sciatic and ankle block"*

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## BAKER, A

- 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"*

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## BALKI, M

- Toronto Interactive Anesthesia, Toronto, Ontario, November 2013

*"Ultrasound guided peripheral nerve blocks"*

- 2014 Mar Gynuity Health Projects, New York, March 2014

*"Postpartum hemorrhage: new science and outstanding questions: does pretreatment with oxytocin reduce the efficacy of subsequent doses?"*

- The Toronto Anesthesia Symposium, Toronto, Ontario, April 2014  
*"Maternal cardiac arrest. Old problems new solutions"*
  - 46<sup>th</sup> 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"*
  - 46<sup>th</sup> 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"*
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- 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"*
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- 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"*
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- BROWN, S**
- 26<sup>th</sup> Pediatric Anesthesia Conference, Toronto, Ontario, November 2013  
*"Medical marijuana for pediatric pain: a good idea?"*
  - 26<sup>th</sup> 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"
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- BYRICK, R**
- Ontario Medical Association – Anesthesia Section Meeting, Niagara Falls, Ontario, September 2013  
*"Update: out of hospital premises inspection in Ontario"*
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- CAMPBELL, F**
- 7<sup>th</sup> Annual Pediatric Pain Masterclass, Children's Hospital, Minnesota, June 2014  
*"Quality improvement in pediatric pain management"*
  - 26<sup>th</sup> Pediatric Anesthesia Conference, Department of Anesthesia, The Hospital for Sick Children, University of 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 Assessment and Management 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"*
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- CARVALHO, J**
- 11<sup>th</sup> 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 Anestesiologia, Hospital e Maternidade Sao Luiz, São 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"*
  - 67<sup>th</sup> 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"*
  - 10<sup>th</sup> 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 Atualizacao de Anestesiologia USP 2014, organized by the Department of Anesthesia University of São Paulo, São Paulo, Brazil, March 2014

*"Use of ultrasound for neuraxial anesthesia"*

*"Hemodynamic assessment with bioreactance technology in obstetrics"*

- 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"*

*"The use of uterotonics in 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"*

- 48<sup>th</sup> Jornada de Anestesiologia do Estado de Sao Paulo and 11<sup>th</sup> Congresso Paulista de Anestesiologia, Organized by the Society of Anesthesia of the State of Sao Paulo, São Paulo, Brazil, May 2014

*"Use of uterotonics in 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"*

- 46<sup>th</sup> 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"*

- 19<sup>th</sup> 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"*

- 4<sup>th</sup> 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"*

- 16<sup>th</sup> Annual Rural Anesthesia for GP Anesthesiologists, Banff, Alberta, January 2014

*"Complications of regional anesthesia and other pearls"*

*"Ultrasound guided regional anesthesia workshop"*

- 14<sup>th</sup> 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"*

- 5<sup>th</sup> Jishuitan Orthopedics Forum, Beijing, China, April 2014

*"Complications of regional anesthesia"*

- 39<sup>th</sup> 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"*

*"Infraclavicular & 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"*

- “Neuraxial and paraspinal techniques*
- 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”*
- 39<sup>th</sup> Annual American Society of Regional Anesthesia and Pain Medicine Meeting, Chicago, Illinois, April 2014
- “Comprehensive truncal-paravertebral workshop”*
- 4<sup>th</sup> 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, Kwun 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 an 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”*
- 
- COX, 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?”*
- American Thoracic Society Annual Conference, Philadelphia, Pennsylvania, May 2014
- “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

*“Common challenges in teaching anesthesia learners in the OR: score it and tell it as it is: assessment of learners and giving effective feedback”*

#### **DJAIANI, G**

- European Society of Anesthetists, Mezhotne, 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”*

- 9<sup>th</sup> 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 anesthesiology 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

*“Studying interprofessional teams with performance rating tools – to innovate or replicate?”*

- The Hospital for Sick Children, Perioperative Services Grand Rounds, Toronto, Ontario, February 2014

*“Do pediatric operating room critical event checklists improve patient safety?”*

- University of Toronto, Centre for Quality Improvement and Patient Safety (C-QulPS), 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”*

- Electronic Living Laboratory for Interdisciplinary Cancer Survivorship Research (ELLICSR): Health, Wellness and Cancer Survivorship Centre Research Meeting, Toronto, Ontario, March 2014

*“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-Akram 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”*

- Nursing Week, Northumberland Hills Hospital, Cobourg, Ontario, May 2014

*“Mindfulness-based chronic pain management”*

- Central East LHIN Telemedicine Community of Practice Strategic Planning Session, Whitby, Ontario, June 2014

*“Progress and innovation through telemedicine”*

#### **GOFELD, M**

- 11<sup>th</sup> 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”*

- 7<sup>th</sup> World Congress, World Institute of Pain, Maastricht, Netherlands, May 2014

*“From the surface to the depth: ultrasound in interventional pain therapy”*

- 4<sup>th</sup> 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 Ultrasonography (AAPMU), Atlanta, Georgia, March 2014  
*"Ultrasonography 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 Ultrasonography (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 Ultrasonography (AAPMU), Los Angeles, California, November 2013  
*"Ultrasonography in pain medicine level 4"*
  - American Academy of Pain Medicine Ultrasonography (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 Ultrasonography (AAPMU), New Jersey, September 2013  
*"Ultrasonography in pain medicine level 4"*
  - American Academy of Pain Medicine Ultrasonography (AAPMU), Las Vegas, Nevada, August 2013  
*"Ultrasonography in pain medicine level 1"*
  - Dannemiller Foundation, Chicago, Illinois, August 2013  
*"Ultrasonography in pain medicine course"*
  - American Academy of Pain Medicine Ultrasonography (AAPMU), Denver, Nebraska, July 2013  
*"Ultrasonography in pain medicine level 4"*
- 
- GOLDSZMIDT, E**
- Society for Obstetric Anesthesia 46th Annual Meeting, Toronto, Ontario, May 2014  
*"Ultrasound for vascular access workshop"*
- 
- GREENWOOD, E**
- Pediatric Anesthesia Conference, Toronto, Ontario, November 2013  
*"Round-table discussion on dexmedetomidine"*
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- HANLON, J**
- Peterborough County Medical Society Grand Rounds, Ontario, November 2013  
*"Managing chronic pain: pharmacological options"*
  - Addis Abba University, Department of Anesthesia, Addis Abba, Ethiopia, February 2014  
*"Acute pain management"*  
*"Chronic pain management"*  
*"Interventional pain management"*
  - American Academy of Pain Medicine Ultrasonography (AAPMU), Florida, January 2014  
*"Ultrasound guided lumbar spine and pelvic injections"*



- American Society of Anesthesiologists (ASA) 2013 Annual Conference, October 2013  
*"Ultrasound guided injections: advanced techniques, cadaver workshop"*
  - American Academy of Pain Medicine Ultrasonography (APMU), New York, September 2013  
*"Ultrasound sonoanatomy and basic injections"*
- 
- HARE, G**
- 14<sup>th</sup> 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  $\beta$ -Blocker is more protective?"*
- 
- HEGGIE, J**
- 31<sup>st</sup> Symposium: Update in Anesthesiology, Surgery, and Perioperative Medicine, Leipzig Heart Institute, Mt Sinai, Las Vegas, Nevada, October 2013  
*"Adult congenital heart disease"*
  - 10<sup>th</sup> 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"*

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**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"*

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**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?"*

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**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?"*

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**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"*

- 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 60<sup>th</sup> Anniversary General Assembly event, Barranquilla, Columbia, March 2014  
*"Happiness and tourism"*
- Annual Kidney Cancer Patient Education Conference, Toronto, Ontario, March 2014  
*"The healthy patient"*
- VII UN World Urban Forum, Medellin, Colombia, April 2014  
*"The wise city: promoting human flourishing in a healthy planet"*
- 4<sup>th</sup> 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"*

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**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"*

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**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?"*
- 32<sup>nd</sup> Annual Symposium Clinical Update in Anesthesiology, Surgery and Perioperative Medicine. Icahan 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

*"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"*

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**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 downs syndrome patient with obstructive sleep apnea for T&A"*

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**KATZ, J**

- Education Special Interest Group, Canadian Pain Society,

5<sup>th</sup> 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?"*

- 30<sup>th</sup> 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"*

- 35<sup>th</sup> 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"*

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**KATZNELSON, R**

- 4<sup>th</sup> CC-UHMS Annual Meeting, Halifax, Nova Scotia, November 2013

*"Hyperbaric oxygen and pain"*

- Interdisciplinary Rounds, Wasser Pain Management Center, Toronto, Ontario, June 2014

*"Hyperbaric oxygen therapy: a novel treatment for pain"*

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**KAVANAGH, BP**

- 11<sup>th</sup> 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"*

- 33<sup>rd</sup> 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"*

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**KHANDUJA, K**

- Toronto Interactive Anesthesia Conference, Toronto, Ontario, November 2013

*“Problem-based learning session: obstetric considerations for the morbidly obese parturient”*

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**KIM, H**

- 11<sup>th</sup> Annual International Symposium of 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”*

- 11<sup>th</sup> Annual Toronto Peri-operative TEE Symposium, Toronto, Ontario, November 2013

*“Practical diastology”*

*“Transthoracic echocardiography workshop”*

- Harvard Perioperative Transesophageal Echocardiography and Annual Echo Boards Review Course, Boston, Massachusetts, September 2013

*“Physics and hemodynamics workshop”*

*“Hands-on TEE simulation workshop”*

*“TEE workshop with advanced simulators”*

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**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”*

- 39<sup>th</sup> Annual American Society of Regional Anesthesia and Pain Medicine Meeting, Chicago, Illinois, April 2014

*“Hands-on workshop: challenging anatomy”*

*“Resident and fellow educational program: US guided regional anesthesia”*

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**KO, R**

- Surgical Grand Rounds, Toronto General Hospital, Toronto, Ontario, January 2014

*“Post-operative pain management”*

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**LAFFEY, J**

- University of Toronto Interdisciplinary Department of Critical Care Annual Residents Day, Toronto, Ontario, June 2014

*“When more CO<sub>2</sub> 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”*

*“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?”*

- 12<sup>th</sup> 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”*

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**LAUSSEN, P**

- 10<sup>th</sup> Annual Paediatric Patient Safety Symposium and Risky Business Toronto 2014: Living with Uncertainty – Planning for the Future, Toronto, Ontario, May 2014

*“Chair: closing address”*

- Department of Pediatrics Grand Rounds – Ann Newman Annual Lecture, Children’s Hospital of Philadelphia, Philadelphia, Pennsylvania, May 2014

*“Big data: big gains”*

- Practical Aspects of Pediatric Anesthesia and Critical Care, Boston Children’s Hospital & Harvard Medical School, Boston, Massachusetts, May 2014

*“Risky business – comparing fast cars, space travel and anesthesia risk”*

- 7<sup>th</sup> World Congress on Pediatric Intensive and Critical Care, Istanbul, Turkey, May 2014

*“Transforming data to information: the challenge is ours”*

*“What cardiac intensivists think is important”*

*“The challenge of transitioning young adult with congenital heart disease from pediatrics to adult care”*

*“The heart: heart and family”*

- Congenital Cardiac Anesthesia Society (CCAS) 2014, Fort Lauderdale, Florida, March 2014

*“Heart failure management: current management strategies”*

- Congenital Cardiology Group/SZYGY 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”*





- Canadian Paediatric Society 91<sup>st</sup> 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 anesthesia – 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  
*"Morphine inhibition of isocitrate dehydrogenase: implications for metabolic and epigenetic cellular alterations"*
- 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"*
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- MAZER, D**
- 10<sup>th</sup> 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
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- "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 hemostatic 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"*
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- 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 nerve 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"*

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#### **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, Laurentian 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"*

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#### **MCDONNELL, C**

- Canadian Anesthesiologists' Society Annual Meeting 2013, Calgary, Alberta, June 2013

*"Postoperative nausea and vomiting in children undergoing radiofrequency catheter ablation: a 6-year review of 614 patients"*

- Society for Pediatric Anesthesia, Fort Lauderdale, Florida, February 2014

*"PACU pain assessments"*

- 2014 Jun 8 International Conference on Opioids, Boston, Massachusetts, June 2014

*"Opioid error in paediatric hospital practice"*

- Canadian Anesthesiologists Society, St. John's, Newfoundland & Labrador, June 2014

*"Professionalism in paediatric anesthesia – more than just a CanMeds tickbox"*

- Canadian Association of Paediatric Health Centres, Toronto, Ontario, June 2014

*"Opioid error in paediatric hospital practice"*

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#### **MEINERI, M**

- Indian Association of Cardiothoracic Anesthetists, 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"*

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#### **MURPHY, P**

- 7<sup>th</sup> 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"*

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#### **NIAZI, A**

- 7<sup>th</sup> Annual Anesthesia Assistant Professional Development Day, University Health Network, Toronto, Ontario, October 2013

*"Block room: putting the pieces together"*

- 39<sup>th</sup> 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"*

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#### **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"*

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#### **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"*

*"The effects of computerization on CCU teams"*

- 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

- 5<sup>th</sup> 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 Anesthesiologist, 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"*

- Argentina Pain Foundation, Buenos Aires, Argentina, November 2013

*"Role of ultrasound in neuraxial procedure of pain"*

- American Society of Regional Anesthesia, Phoenix, Arizona, November 2013

*"Tai Chi and pain. Symposium on complementary and alternative medicine"*

*"Ultrasound for pain medicine"*

- Canadian Pain Refresher Course, Canadian Pain Society, Toronto, Ontario, February 2014

*"Expert panel: headache. What if simple does not work?"*

- Study of Multidisciplinary Pain Research (SIMPAP), 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 Anesthesia, Professor Rounds, University of Toronto, Toronto, Ontario, September 2013

*"Are Canadians hot?"*

- Malignant Hyperthermia Association of United States, Scientific Conference, Toronto, Ontario, November 2013

*"Phneotype-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"*

- 33<sup>rd</sup> 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 Obstr/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**

- 11<sup>th</sup> 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 Kuwait, 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, Adis Abeba, 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"*

- Korean Society of Cardiothoracic and Vascular Anesthesiologists. Seoul, Korea, April 2014  
*"Lung isolation for thoracic anesthesia; update on one-lung ventilation"*
- Toronto Anesthesia Symposium, Ontario, April 2014  
*"Perioperative management of the patient with severe lung disease"*
- International Anesthesia Research Society, Montreal, Quebec, May 2014  
*"Don't make things worse with your ventilator settings"*
- Canadian Anesthesiologists Society, Annual Meeting. St. John's, Newfoundland and Labrador, June 2014  
*"Lessons from lung transplant anesthesia"*

#### **SONEJI, N**

- University of Toronto Pain Fellows Interventional Workshop – Jointly organized by Toronto Western Hospital-University Health Network and St. Michael's Hospital, Toronto, Ontario, October 2013  
*"Ultrasound for musculoskeletal interventions"*
- Jointly organized by Department of Anesthesia and Pain Management, University Health Network, Toronto and Canadian Pain Society – Interventional Special Interest Group, Toronto, Ontario, December 2013  
*"Ultrasound for pain medicine course"*
- International Society of Ultrasound and Regional Anesthesia (ISURA), Toronto, Ontario, June 2014  
*"Ultrasound interventions for chronic pain"*

#### **SRINIVASAN, I**

- Toronto Interactive Anesthesia Conference, Toronto, Ontario, November 2013

*"PBLD regional anesthesia for pediatric patients"*

#### **STEEL, A**

- Society of Cardiovascular Anesthesiologists, New Orleans, Louisiana, March 2013  
*"Post-thoracotomy intensive care management problem-based learning discussions"*
- Canadian Critical Care Society, Toronto, Ontario, November 2013  
*"Critical care response teams critical care canada forum"*

#### **SZABO, E**

- Pediatric Anesthesia Conference, Department of Anesthesia, The Hospital for Sick Children, Toronto, Ontario, Canada, November 2013  
*"Practical approach to managing acid-base balance"*

#### **TARSHIS, J**

- Whistler Anesthesia Summit, Whistler, British Columbia, March 2014  
*"Am I competent?"*  
*"What's wrong with simulation?"*  
*"Challenging cases in acute pain management"*
- University of Toronto Transfusion Camp, Toronto, Ontario, June 2014  
*"Negotiating through authority gradients"*

#### **TAYLOR, K**

- Pediatric Anesthesia Conference, Toronto, Ontario, November 2013  
*"Current approaches to pulmonary hypertension"*
- 48<sup>th</sup> Annual meeting of the Association for European Pediatric and Congenital Cardiology, Helsinki, Finland, May 2014  
*"Aortopulmonary collateral flow in patients with cavopulmonary bypass is underestimated by fluoroscopic angiography*

*compared to magnetic resonance flow measurements"*

- Department of Anesthesia, University of 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  
*"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 treatment 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"*
- Society of Paediatric Anaesthesia Australia and New Zealand (SPANZA), Manly, Australia, October 2013  
*"Communication during CPR in ICU cardiac arrests"*
- International Conference on Residency Education, Calgary, Alberta, September 2013  
*"Clarity in critical moments: audio recorded resuscitation performance"*

#### **THARMARATNAM, U**

- Interactive Anesthesia Symposium, Toronto, Ontario, November 2013  
*"Headache in pregnancy"*

#### **TOUSIGNANT, C**

- American Society of Anesthesiologists (ASA) 2013 Annual Meeting, San Francisco, California, October 2013  
*"Presentation on RV function assessment in perioperative echo"*

#### **VEGAS, A**

- 11<sup>th</sup> TEE Symposium, Toronto General Hospital, Toronto, Ontario, November 2013  
*"High risk cardiac surgery: new therapies"*
- Montreal Heart Institute, Montreal, Quebec, December 2013  
*"Echocardiography training for anesthesiologists: optional or mandatory"*
- Echo Week 17<sup>th</sup> Annual Comprehensive Review and Update of Perioperative Echocardiography Society of Cardiovascular Anesthesia, Atlanta, Georgia, May 2014  
*"Application of 3D aortic valve"*  
*"Mitral regurgitation"*  
*"Mitral valve anatomy and mitral regurgitation"*

#### **VENKATRAGHAVAN, L**

- Anesthesia Grand Rounds, University Teaching Hospital, Lusaka, Zambia, November 2013  
*"Anesthesia for awake craniotomy"*
- Toronto Anesthesia Practice 2012, Continuing Medical Education Committee, Department of Anesthesia, University of Toronto, Toronto, Ontario, November 2013  
*"Perioperative hypertension"*



## 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 Sleivert, 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 3<sup>rd</sup> 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 Sport Medicine Conference, Toronto, Ontario, February 2014

*"The John Sutton memorial lecture: the tired athlete"*

- TEDx University of Toronto, Toronto, Ontario, March 2014

*"Eat, move, sleep"*

- American College of Rheumatology Pediatric Rheumatology Symposium, Orlando, Florida, April 2014

*"Exercise as medicine presentation"*

*"Exercise as medicine for rheumatology patients – a roundtable discussion"*

- C.W. Marchant Middle School, Toronto, Ontario, April 2014

*"Dream, live in the moment and believe"*

- The University of Toronto Rotman Business School Executive Programs, Toronto, Ontario, April 2014

*"The corporate olympian: be better in business"*

- University of Toronto Cardiovascular Sciences Collaborative Program Student Research Day, Toronto, Ontario, May 2014

*"Career planning"*

- Sick Kids Paediatric Update Conference, Toronto, Ontario, May 2014

*"Overtraining, recovery and regeneration"*

- Ontario University Athletics, Huntsville, Ontario, May 2014

*"In defence of sporting excellence"*

- University of Toronto Centre for Faculty Development, Toronto, Ontario, May 2014

*"Best practice in education rounds: better health and performance for education professionals"*

- Toronto District School Board Mental Health Symposium, Toronto, Ontario, May 2014

*"Renewal and regeneration"*

- The University of Toronto 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"*

- American Society of Anesthesiologists Annual Meeting, San Francisco, California, October 2013

*"Clinical epidemiology as a career in anesthesiology"*

- 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?"*

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#### 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 29<sup>th</sup> 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?"*

- Khoo Teck Puat Hospital, Singapore, May 2014

*"Cannot intubate cannot ventilate: are you ready for a surgical airway?"*

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#### YEE, D

- Toronto Anesthesia Symposium, Toronto, Ontario, April 2014

*"Lecture: old myths and new paradigms in trauma care"*

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#### ZHANG, H

- ATS 2014 International Conference, San Diego, California, May 2014

*"A47-critical illness: novel molecules and models"*

- 7<sup>th</sup> 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 Wijeyesundera

### 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

2014-2015

**Alternative Funding Plan Innovation Fund for Academic Health Science Centres**

**Title:** Validation of the labour pain questionnaire, the first multidimensional psychometric instrument developed specifically for measurement of pain in labouring women

**Amount:** \$60,264

**Principal Investigator:** P Angle

**Co-Investigator:** J Barrett, C Kurtz Landy, A Kibbe, A Kiss

2013-2017

**Canadian Institutes of Health Research (CIHR) Operating Grant**

**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

**Co-Investigator:** W Sword, P Angle, A Biringer, S Boblin, C Cunningham, M Heaman, H McDonald, S McDonald, M Morris, V Senikas, H Shannon

### ARZOLA, C

2013-2014

**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

2013-2015

**Ontario AHSC AFP Innovation Fund**

**Title:** Ultrasound assessment of the gastric content and volume in pregnant population

**Amount:** \$99,600

**Principal Investigator:** C Arzola

**Co-Investigators:** Perlas A, JCA Carvalho

### 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:** Does a key anesthetic contribute to cognitive deficits after traumatic brain injury?

**Amount:** \$100,000

**Principal Investigator:** AJ Baker



**Co-Investigators:** B Orser, E Park, D Wang, I Lecker

2013

**Canadian Institutes of Health Research (CIHR)**

**Title:** Resuscitation in motion 2014: building networks of excellence to advance resuscitation science research, development and practice

**Amount:** \$24,600

**Principal Investigator:** L Morrison

**Co-Investigators:** AJ Baker, L Morrison, KN Dainty, OD Rotstein

2014-2015

**National Defense Research and Development Canada Grant Renewal**

**Title:** Clinical evaluation of blood biomarkers for discrimination of posttraumatic stress disorder and traumatic brain injury comorbidity

**Amount:** \$130,000

**Principal Investigator:** AJ Baker

**Co-Investigators:** E Park

### 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

### 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

2013-2016

**Department of Medicine, University of Toronto**

**Title:** Sleep and sedation-translational science to public health

**Amount:** \$450,000

**Principal Investigator:** R Horner

**Co-Investigator:** B Orser

2011-2016

**Canadian Institutes of Health Research (CIHR)**

**Title:** Trans-disciplinary team research and training program in sleep and biological rhythms

**Amount:** \$2,000,000

**Principal Investigator:** R Horner

**Co-Investigator:** B Orser

2011-2016

**Canadian Institutes of Health Research (CIHR)**

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

**Amount:** \$860,535

**Principal Investigator:** B Orser

**Co-Investigator(s):** N/A

**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

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**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-Investigators:** S Riazi, B Bril, JT Lau

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**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, S 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

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**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

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**CHOI, S**  
**2014-2016**  
**Holland Musculoskeletal Research Committee New Investigator Award**  
**Title:** N/A  
**Amount:** \$30,000

**Principal Investigator:** S Choi  
**Co-Investigator:** N/A

**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:** PJ Devereaux  
**Co-Investigator:** S Choi

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

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**2012-2014**  
**Health and Health Services Research Fund, Hong Kong**  
**Title:** Postoperative vascular events in unrecognized obstructive sleep apnea  
**Amount:** HK \$980,356  
**Principal Investigator:** M Chan  
**Co-Investigator:** F Chung

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**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

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**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 Stefanyk, J Trachtenberg, AG Matthew, DN Wijeyesundara

**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 Djaiani, S Beattie, A Paterson, V Rao, M McGillion, J Hunter, J Watt-Watson

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**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



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**COOPER, R****2014****Society for Airway Management Research Grant**

**Title:** Does video laryngoscopy feedback with and without recording accelerate the learning curve of novice laryngoscopists in skill acquisition of direct laryngoscopy?

**Amount:** \$5,000

**Principal Investigator:** R Cooper

**Co-Investigators:** D Wong, J Sainsbury

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**CRAWFORD, C****2014****SickKids Perioperative Innovation Fund**

**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

**Co-Investigator:** C Crawford

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**2013-2014****Canadian Anesthesiologists' Society Research Award**

**Title:** Discovering pathologic anesthetic effects in autistic children: the role of anesthesia-induced mitochondrial dysfunction

**Amount:** \$30,000

**Principal Investigator:** J Maynes

**Co-Investigator:** C Crawford

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**CURLEY, G****2014-2019****Canadian Institute of Health Research (CIHR) Operating Grant**

**Title:** Cell based therapy for acute respiratory distress syndrome

**Amount:** \$895,600

**Principal Investigator:** J Laffey

**Co-Investigator:** G Curley

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**2014-2019****Canadian Anesthesiologists' Society/Canadian Anesthesia Research Foundation Operating Grant**

**Title:** Pre-activated mesenchymal stem cell therapy for bacterial pneumonia

**Amount:** \$30,000

**Principal Investigator:** G Curley

**Co-Investigator(s):** J Laffey

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**2014-2019****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

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**2014-2019****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

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**CUTHBERTSON, BH****2014-2016****Australia and New Zealand College of Anaesthetists**

**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 Wijeyesundera, RM Pearse

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**DJAANI, 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 Djaiani

**Co-Investigators:** R Katznelson, R Styra, D Mazer, D Cheng, F Chung

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**EVERETT, TC****2013-2014****The Ottawa Hospital Academic Medical Organization (TOHAMO)**

**Title:** Does an early booster session improve performance and retention of skills in neonatal resuscitation compared to a later booster? A simulation based randomized controlled trial

**Amount:** \$57,797

**Principal Investigator:** P

Nambyiah

**Collaborators:** D Bould, TC Everett, G Moore, K Abdulla, S Boet

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**2013-2014****Academy for Innovation in Medical Education (AIME)**

**Title:** Does an early booster session improve performance and retention of skills in neonatal resuscitation compared to a later booster? A simulation based randomized controlled trial

**Amount:** \$19,957

**Principal Investigator:** P

Nambyiah

**Collaborators:** MD Bould, TC Everett, G Moore, K Abdulla K, S Boet

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**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

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**2013-2015****Royal College of Physicians and Surgeons of Canada- Medical Education Research Grant**

**Title:** Adapting aviation safety to medicine: using "Cockpit Resource Management" for challenging critical errors by a superior

**Amount:** \$41,760

**Principal Investigator:** Z Friedman

**Co-Applicant:** M Hayter

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**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

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**2007-2014****Canadian Breast Cancer Research Alliance**

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

**Amount:** \$747,485

**Principal Investigator:** L Gagliese

**Co-Investigators:** G Koren, VWS Chan, A Easson, G Rodin, M Li

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**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

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**HARE, G****2014-2017****Children's Discovery Institute****Title:** Nanomedicine approach to protable oxygen therapeutics with nanocrit**Amount:** \$1,000,000**Principal Investigator:** A Doctor**Co-Investigator:** G Hare**2013-2016****Canadian Institute of Health Research (CIHR)****Title:** Transfusion Requirement in Cardiac Surgery III (TRICS III)**Amount:** \$3,323,110**Principal Investigator:** D Mazer**Co-Investigator:** G Hare**2012-2013****The Canadian Anesthesiologists' Society Wynanads Research Award****Title:** A prospective analysis of methemoglobin as a biomarker of tissue hypoxia during acute hemodilutional anemia in patients undergoing heart surgery**Amount:** \$30,000**Principal Investigator:** G Hare**Co-Investigator:** D Mazer**2011-2013****University of Toronto, Department of Anesthesia Merit Award Research Competition****Title:** Characterizing physiological and cellular mechanisms which reduce brain injury and promote survival during anemia**Amount:** \$80,000**Principal Investigator:** G Hare**Co-Investigator:** N/A

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**HONG, A****2013-2014****Physicians' Services Incorporated Foundation (PSIF)****Title:** A randomized controlled trial of cesamet (nabilone) for the prevention of postoperative nausea and vomiting in elective outpatient surgery**Amount:** \$19,500**Principal Investigator:** A Hong**Co-Investigators:** D Levin, D Mazer, G Hare

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**ISAAC, L****2010-2015****Canadian Institutes of Health Research (CIHR)****Title:** The transition from acute postsurgical pain to chronic pain: the role of pain anxiety and parental influences in paediatric pain**Amount:** \$60,000**Principal Investigator:** J Katz**Collaborators:** L Isaac, MG Page, J Stinson, F Campbell

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**JADAD, AR****2013-2018****Canadian Institutes of Health Research (CIHR)****Title:** Transforming primary health care in remote northern communities – the circumpolar health systems innovation team led by Professor Kue Young**Amount:** \$2,455,600**Principal Investigator:** Young K**Collaborators:** AR Jadad, A Brown, S Chatwood, A Cortinois**2013-2016****Canadian Institutes of Health Research (CIHR)****Title:** Assessing the impact of healthcare facility design on health outcomes: Implications for strategic investments in design**Amount:** \$252,009 USD**Principal Investigator:** C Alvaro**Collaborators:** AR Jadad, H Clifford, C Atkinson, P Gardner, R Lyons, S Wilkinson

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**JERATH, A****2013-2014****The Australian National Health and Medical Research Council****Title:** Restrictive versus liberal fluid therapy in major abdominal surgery**Amount:** \$140,000 AUD**Principal Investigator:** P Myles**Co-Investigators:** A Jerath, M Wasowicz, DN Wijesundera, VWS Chan, A Perlas, J Granton, D Urbach**2013-2015****Heart and Stroke Foundation (HSF) of Canada****Title:** Plasma concentrations and pharmacokinetics in patients with renal impairment undergoing cardiopulmonary bypass surgery**Amount:** \$90,658**Principal Investigator:** A Jerath**Co-Investigators:** M Wasowicz, J Pawliszyn, SK Pang, D Wijesundera, T Yau**2013-2015****Ontario AHSC AFP Innovation Fund****Title:** Use of volatile for long-term sedation in critical care patients**Amount:** \$152,936**Principal Investigator:** A Jerath**Collaborators:** M Wasowicz, N Ferguson, A Steel, D Mazer, V Rao

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**KARKOUTI, K****2013****University Health Network, Peter Munk Cardiac Centre****Title:** Reducing blood transfusions in cardiac surgery by an algorithm-based personalized medicine approach to bleeding**Amount:** \$85,000**Principal Investigator:** K Karkouti**Co-Investigators(s):** N/A

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**KARSLI, C****2013****The Hospital for Sick Children Innovation Project****Title:** A novel pediatric face mask designed to facilitate spontaneous and positive pressure ventilation as well as flexible fiberoptic intubation**Amount:** \$400**Principal Investigator:** C Karsli**Collaborator:** AI Adel

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**KATZ, J****2013-2018****Canadian Institutes of Health Research (CIHR)****Title:** Evaluating the efficacy of an Attention Modification Program for chronic musculoskeletal pain patients with fibromyalgia**Amount:** \$467,500**Principal Investigator:** N Carleton**Co-Applicants:** J Katz, G Asmundson**2010-2017****Canadian Institute of Health Research (CIHR)****Title:** Tier 1 CRC in Health Psychology**Amount:** \$1,400,000**Principal Investigator:** J Katz**Co-Investigators(s):** N/A**2011-2014****Workplace Safety and Insurance Board of Ontario****Title:** Pre-existing patient factors associated with sensorimotor recovery, chronic pain and brain plasticity following surgical repair of peripheral nerve injuries**Amount:** \$348,273**Principal Investigator:** K Davis**Co-Investigators:** J Katz, D Anastakis

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**KAVANAGH, BP****Canadian Institutes of Health Research (CIHR) Operating Grant 2008-2013****Title:** Therapeutic potential of hepxilin analogues**Amount:** \$620,000**Principal Applicant:** BP Kavanagh**Co-Principal Applicant:** M Post**2008-2013****Canadian Institutes of Health Research (CIHR) Operating Grant****Title:** Ventilator-induced lung injury: linking gene activation, physiology and outcome**Amount:** \$643,000**Principal Applicant:** BP Kavanagh**Co-Applicant:** M Post

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

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**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

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**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  
**Principle Investigator:** H Kim  
**Co-Investigators:** R Chen, T George

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**LAFFEY, J**

2014

**Canadian Institutes of 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  
**Award:** \$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:** N/A

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**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

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**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

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**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

2013-2015

**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

2013-2014

**Canadian Anesthesiologists' Society Research Award**  
**Title:** Discovering pathologic anesthetic effects in autistic children: the role of anesthesia-induced mitochondrial dysfunction  
**Amount:** \$30,000  
**Principal Investigator:** J Maynes  
**Collaborator:** M Crawford

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**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 Fergusson 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 Wijeyesundara  
**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 Fergusson, 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

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**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

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**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

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**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

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**O'LEARY, 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  $\alpha$ 2-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

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**RIAZI, 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-Applicants:** M Tarnopolsky, G Wells, T Rasmus Kiehl, N Kraeva

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**SHASTRI, U**

2013-2014

**Ontario Medical Association (OMA) and the Ministry of Health and Long-Term Care (MOHLTC) 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

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**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

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**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

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**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

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**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

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**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

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

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**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 G

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**WIJEYSUNDERA, 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 Wijesundera**Collaborators:** B Cuthbertson, J Granton, P Oh, WS Beattie, R Brull, C McCarthney, D Mazer, H Wijesundera, 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:** \$987,068**Principal Investigator:** DN Wijesundera**Co-Investigators:** WS Beattie, VWS Chan**2013-2016****Heart and Stroke Foundation of Ontario – Grant in Aid****Title:** An international multi-centre prospective cohort study of cardiopulmonary exercise testing for improving preoperative risk stratification for major non-cardiac surgery**Amount:** \$144,000**Principal Investigator:** DN Wijesundera**Collaborators:** B Cuthbertson, D Mazer, WS Beattie, R Brull, C McCartney, K Thorpe, P Oh, J Granton, M Mamdani, H Wijesundera**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, DI McIsaac**Collaborators:** DN Wijesundera, A Gershon, GL Bryson, N Badner

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**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

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**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

**2011-2016**  
**Canadian Institutes of Health Research (CIHR) Operating Grant**  
**Title:** Mechanisms of human neutrophil peptides in lung inflammation  
**Amount:** \$828,620  
**Principal Investigator:** H Zhang  
**Co-Investigator:** N/A

**2010-2015**  
**Canadian Institutes of Health Research Operating Grant**  
**Title:** Mechanisms of ventilator-induced pulmonary fibrosis and its therapy  
**Amount:** \$798,747  
**Principal Investigator:** A Slutsky  
**Co-Principal Investigators:** H Zhang

**2013-2017**  
**NSF Operating Grant**  
**Title:** Targeting the signaling of human neutrophil peptides in lung injury  
**Amount:** \$145,000  
**Principal Investigator:** H Zhang  
**Co-Investigator:** N/A

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## Non-Peer Reviewed Grants

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**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:** VWS Chan

**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 Investigators:** S Davies  
**Co-Investigators:** N/A

**DJAIANI, 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

**2013-2015**  
**Anonymous Companies, Corporations (Non-Canadian)**  
**Title:** Pilot studies in advanced brain vascular physiology  
**Amount:** \$38,000 USD  
**Principal Investigator:** J Fisher  
**Co-Investigators:** N/A

**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 Wijesundera

**2013-2015**  
**Massimo Corporation**  
**Title:** The effects of continuous hemoglobin and Plethysmographic Variability Index (PVI) monitoring on perioperative transfusion, fluid management and outcomes

**Amount:** \$100,000  
**Principal Investigator:** K Karkouti  
**Collaborators:** SA McCluskey, M Machina

**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

**2012-2013**  
**Boehringer Ingelheim (Canada) Ltd**  
**Title:** A randomized phase II study to evaluate the safety and pharmacokinetics of oral dabigatran etexilate in patients after heart valve replacement (RE-ALIGN study)  
**Amount:** \$66,305  
**Principal Investigator:** S Verma  
**Co-Investigator:** D Mazer

**2013-2014**  
**AlloCure Inc**  
**Title:** A randomized, multicenter, double-blind, placebo-controlled study of AC607 for the treatment of acute kidney injury in cardiac surgery subjects  
**Amount:** \$93,400  
**Principal Investigator:** D Mazer  
**Co-Investigators:** H Kim, R Wald, S Verma

**2012-2014**  
**CSL Behring**  
**Title:** REPLACE (Randomized evaluation of fibrinogen versus placebo in complex cardiovascular surgery): a prospective, multinational, multicenter, randomized, double-blind, placebo-controlled, phase III study for the use of Fibrinogen Concentrate (Human) (FCH) in complex cardiovascular surgery  
**Amount:** \$198,147 USD  
**Principal Investigator:** D Mazer  
**Co-Investigators:** M Peterson, H Kim

**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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