INTERDEPARTMENTAL DIVISION OF CRITICAL CARE
Department of Medicine, Surgery, Anaesthesia and Paediatrics

2014 - 2015 Bi-annual Report
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MESSAGE FROM THE DIVISION DIRECTOR

Laurent Brochard, MD

Dear Members of the Interdepartmental Division of Critical Care Medicine,

I am pleased and proud to present the bi-annual report for January 1, 2014 – December 31, 2015, for the Division.

Last year we released our Strategic Plan and we decided that our annual report would be moved to 2016, looking back at the years 2014 and 2015 in the same report. So, it is my privilege and pleasure to kick-off our “big” bi-annual report to share what we collectively achieved in the Division over the last two years.

This is a very exciting time because - aside from our very busy daily clinical work - we decided altogether to take a big leap forward to have a strategic plan display our goal of achieving a common and ambitious vision. We have decided to announce “work in progress”. This includes our plan to build a strong division, encompassing education, research, quality improvement, faculty development, and international affairs. We now have a logo and templates for our slides and poster presentations, and we hope to make it meaningful and indicative of the best education, research, and quality of care in Critical Care Medicine.

The Strategic Report can be found on our website (Google, “Critical Care Toronto” to be directed to the site):

The current website now displays reasonable and updated information. Our project is of course to have an even better website but we acknowledge that it will probably take another year to achieve this goal.

As an Interdepartmental Division, we have a Program Director, an Associate Director for Educational Research & Scholarly Development, and a Paediatric Program Director. In 2015, following our strategic thinking, we decided that we needed a Research Director, as well as (concluded at the final stage) an Associate Research Director. We decided to form a Steering Committee for the Division to be as inclusive and transparent as possible (anyone can attend these meetings via teleconference). Our Steering Committee has representatives for Quality Improvement and Clinical Care as we think that achieving city-wide QI projects will considerably reinforce our vision. We also have representatives for international affairs - which we think is one of our hallmarks. We would like to improve our mentorship program and facilitate Faculty
Development, another key topic for our Division. All of you may not be familiar with the way our University works, and it is important to understand that, within the Faculty of Medicine, having the features described above really speaks to our ambition and our breadth. We must make it an efficient reality but the exceptional quality and involvement of the members of our Division, the variety of skills, knowledge, motivation, and ideas (so crucial!) put forward by our members makes this goal highly realistic. We need to work, collaborate, discuss, socialize, and network together. Events like the Clinical Research in Progress sessions and city-wide events (Visiting Professor Program, Physiology Rounds, Art Slutsky Day, etc.) are essential to making us feel like a cohesive group and to finding our individual accomplishments within the IDCCM.

There are so many people to thank for what has been achieved, beyond those who contributed to writing this report. I hope you will enjoy reading it. I want to give a special thank you to our Administrative Assistants who help all of us in our endeavor to better communicate and connect: Louisa Matela for IDCCM and CCPR; Meredith Malloy for CRIP and VPs; Stephanie Nardella for the Adult Program; and Kathy Boyko for the Paediatric Program.

I really want to thank all of you for giving me the privilege of being the Director of such an exciting Division!

Laurent Brochard, MD
Division Director, Interdepartmental Division of Critical Care Medicine
Department of Medicine, University of Toronto
MEMBERS OF THE EXECUTIVE COMMITTEE

Chair
Dr. Laurent Brochard, St. Michael's Hospital

Department Heads
Dr. Andrew Baker, St. Michael’s Hospital
Dr. Brian Cuthbertson, Sunnybrook Hospital
Dr. Niall Ferguson, University Health Network and Mt. Sinai Hospital
Dr. Peter Laussen, The Hospital for Sick Children

MEMBERS OF THE STEERING COMMITTEE

Dr. Andre Carlos Amaral, Sunnybrook Hospital, Staff Intensivist
Dr. Claudia dos Santos, St. Michael’s Hospital, Staff Intensivist
Dr. Robert Fowler, Sunnybrook Hospital, Staff Intensivist
Dr. Margaret Herridge, University Health Network – Toronto General Hospital, Staff Intensivist
Dr. Brian Kavanagh, The Hospital for Sick Children, Staff Intensivist
Dr. Afrothite Kotsakis, The Hospital for Sick Children, Paediatric Education Program Director
Dr. John Laffey, St. Michael’s Hospital, Chief Anesthetist
Dr. John Marshall, St. Michael's Hospital, Staff Intensivist
Dr. Geeta Mehta, Mt. Sinai Hospital, Staff Intensivist
Dr. Christopher Parshuram, The Hospital for Sick Children, Paediatric Intensivist Representative
Dr. Dominique Piquette, Sunnybrook Hospital, IDCCM Associate Director
Dr. Gordon Rubenfeld, Sunnybrook Hospital, Staff Intensivist
Dr. Damon Scales, Sunnybrook Hospital, Staff Intensivist
Dr. Jeffrey Singh, University Health Network – Toronto Western Hospital, Staff Intensivist
Dr. Arthur Slutsky, St. Michael's Hospital, IDCCM Ex-chair
Dr. Andrew Steel, IDCCM Program Director Adult Critical Care Medicine Residency and Clinical Fellowships
The University of Toronto Adult Critical Care Medicine Residency Training Program continues to lead the country in producing the highest quality intensivists and leaders in Critical Care Medicine.

We congratulate last year’s graduating class: Drs. Kali Barrett, Mohammed Bawazeer, Andrew Beckett, Preeti Dhar, Brooks Fallis, Keren Mandelzweig, Elliott Owen, Ian Randall, and Shankar Sivananthan. We look forward to following their continued career development and success.

We continue to attract the very brightest candidates, and welcome those that joined our program in July 2014: Drs. Edmond Chau, Michael Kim, Andrew Kuhl, Jonathan Marhong, Ingrid Morgan, Marcello Schmidt, Kevin Shore, and Michael Tylee.

The residency program continues to offer novel educational opportunities to our trainees, thanks to the innovation and dedication of the Program’s Education Director, Dr. Simon Abrahamson. During the past academic year, we once again had a simulation series (Dr. Abrahamson), National ACES course (Dr. Abrahamson), leadership course (Drs. Brooks Fallis and Abrahamson), communication workshop (Dr. James Downar), and ethics series (Dr. Neil Lazar). Drs. Abrahamson and Alberto Goffi provided an ultrasound and echocardiography course, and Dr. Eddy Fan organized the UofT Critical Care Journal Club series. Dr. Shelly Dev developed the annual in-training objective structured clinical examination (OSCE). Ms. Meredith Malloy was responsible for all administrative aspects of the Residency Program, and Bernadette Slingerland provided administrative support to the academic half-day program.

The recipients of the annual teaching awards were selected by the critical care residents to acknowledge outstanding faculty. Dr. Simon Abrahamson received the John T. Granton Award for Outstanding Contributions to Teaching and Education (city-wide). The site winners for excellence in teaching were Drs. Michael Christian (Mount Sinai), Jan Friedrich (St. Michael’s), Cameron Guest (Sunnybrook), Eddy Fan (Toronto General), Jeff Singh (Toronto Western), and Edgar Hockmann (UofT-affiliated hospitals, Toronto East General).

The Visiting Professor series and Clinical Research in Progress sessions, organized by Dr. Gordon Rubenfeld, continued to be a tremendous success. The Annual Residents’ Day was a major achievement, featuring Dr. Keith Walley as Keynote Speaker. Our residents and students presented an impressive 50 abstracts, and 9 of these were selected as oral presentations.
My term as Program Director concluded on December 31, 2014. The past 5 years were highly rewarding for me; it was a great honour to serve in this role. I firmly believe that we run one of the world’s very best Critical Care training programs, thanks to the breadth of the educational experience and our incredible education leaders and teaching faculty. I have the utmost confidence that the program will continue to improve, with new leadership and ideas from the incoming Program Director, Dr. Andrew Steel, and the new Associate Program Director, Dr. Dominique Piquette. During this period of transition, I would like to express my sincere gratitude to Dr. Simon Abrahamson for his dedication and outstanding leadership; for more than 15 years he has developed and implemented our incredible academic half-day series. I am also indebted to Ms. Meredith Malloy for her superb skill in providing administrative support as the Residency Program Coordinator during my term. Most importantly, I would like to thank all of our residents, who continually remind us why we choose to work in an academic teaching environment.
In October 2014 leading educators and trainees joined Damon Scales, then Program Director, to consider ways to improve our trainees’ educational experience and better prepare the Program for anticipated changes. Much of the information gathered confirmed what the Division does really well but also highlighted concerns requiring attention – many of which were validated by the Internal Review in March 2015. The outcome of this activity was an improved understanding of the strengths and weaknesses of our training programs. Key themes and strategic priorities emerged to ensure the delivery of a truly world-class educational experience for all of our trainees. I am pleased to report the following progress made in the educational deliverables of the *IDCCM 2015-2020 Strategic Plan*:

**Critical Care Medicine will span the continuum of medical education**

We have engaged in specific efforts to improve the presence and contribution of Critical Care Medicine faculty locally at University PGME, and nationally at the Royal College. Since July 2015 Christie Lee has been invited to join the Royal College Critical Care Subspecialty Examination Committee, representing UofT. Christie and Dominique Piquette have been recognized for their expertise in Simulation Training and have been invited to join the faculty of the successful Royal College ACES course. In addition to this I have represented the Division locally in the UofT Best Practices Committee for Competency Based Education, and at the Royal College developing the first national CCM “entrustable professional activity” for competency in Organ and Tissue Donation.

**Enhance collaboration across sites to harmonize education activities across the IDCCM**

In addition to rebranding our academic day as Art Slutsky Day to be more inclusive of all our academic faculty, we have targeted a number of collaborative educational opportunities with other Divisions of the Faculty of Medicine (e.g. Nephrology, Pediatrics, Cardiology, Trauma Surgery) to enhance our academic relationships and share expertise around CanMeds domains.

This year the traditional management framework of the Program, the Residency Committee, was augmented with new specific working groups: the Training Evaluation Committee, and Program Development Committee. These were created to address the needs of our different learning groups and align the overall evaluation process with our University and Royal College responsibilities.
Implement recommendations of the Adult Critical Care Medicine City-Wide Fellowship Report

Our future is the development of a University of Toronto Adult Critical Care Fellowship Program and the inaugural city-wide recruited trainees will begin in July 2017. Before this we needed to first create that program and change culture, awarding fellows equal standing and complementary status to our University of Toronto Royal College Adult Critical Care Residency Program. Fundamental to this change is for trainees themselves to feel they are all part of a single educational program, with identical accountabilities and governance. Therefore much effort has been made to increase opportunities for all clinical fellows to rotate outside traditional practice plan silos, attend teaching events with equal opportunity, participate in formative evaluations, and enjoy mentorship and support of the education leadership. This year we established a Chief Resident, Kevin Shore, and Chief Fellow, Brendan Sloan, to represent all trainees at Divisional and University level. In 2014-15 4% of fellows rotated outside their hospital programs. In 2016-17 all fellows have been offered this opportunity and more than 35% are currently scheduled for “cross-site” training.

Strengthen collaborations with affiliated community ICUs

As a leading Community ICU with many alumni of the IDCCM, Trillium Health Partners have been excellent colleagues in supporting the Residency Training Program, hosting 6 of our senior trainees this year. In addition we have proactively engaged several Faculties from other community sites to lend their expertise to the Academic Half-day Program. This has served not only to afford great teaching but also an introduction to our future graduates as future colleagues.

Develop a plan to transition towards competency based training and evaluation in Critical Care Medicine

With the stewardship of Dominique Piquette our Program Development Committee have developed a transition plan in preparation for the transition to RCPSC competency-by-design. Essential elements of this strategy are: testing several new evaluation tools in 2016-17, securing the support of all Faculty colleagues, engagement and representation at University and national level, and establishing the resources and infrastructure to implement this priority.

Advance educational scholarship

While not all trainees will become researchers, it is a vital part of training in Critical Care Medicine to gain an understanding of academic methods. It is also fundamental to the practice of evidence-based medicine that an intensivist has the ability to critically analyze, share, and improve the quality of care using scientific literature.

To encourage the development of these skills, we formalized the Scholarly Activity component of our curriculum that in the Royal College trainees are required to complete. This now includes rigorous evaluation, regular reporting, a final “defense presentation”, and the unreserved support of many faculty supervisors. Currently we are the only Canadian program to formalize our curriculum in this way.

In addition we have doubled the allowance for trainees to attend scientific meetings and conferences. With the exception of CCCF we no longer mandate external courses, and residents now select those that are most relevant to their career direction and education.
Improve the mentorship of Critical Care Medicine Residents and Fellows

The importance of mentorship for CCM trainees was studied and published by our own trainees, Damon Scales and John Granton in 2014, yet no formal mentorship program exists. We must be cognizant of these needs and the difficulties one can encounter during transitions. Each member of the faculty needs to provide, and receive, good mentorship. The appointment of Dominique Piquette as Associate Director for Educational Research & Scholar Development and Laveena Munshi as Wellness Coordinator are key steps to provide mentorship for scholarly activity, career development and wellness for all trainees in our Division.

Finally I would like to thank the 85 members of our Faculty, national and international guest speakers who have supported the Education Program so far this year. The consistent priority will remain training better doctors for our patients’ needs. We will continue to deliver a high-quality, scientifically based, curriculum, be enthusiastic educators at the University of Toronto, and leaders in change at the Royal College.
Department of Critical Care Medicine, St. Michael's Hospital

Andrew Baker, MD, FRCPC

The Department of Critical Care at St. Michael’s Hospital has enjoyed another successful year in its educational, academic and research endeavors. The department’s staff continues to strive for excellence within their fields and have earned the recognition and accolades they have received.

Department welcomed Dr. Gerard Curley to its faculty.

Honours, Awards and Accomplishments

- Dr. Andrew Baker
  - Reappointed as Chief of Critical Care at St. Michael’s Hospital
  - Elected Vice President of the Physicians Services Incorporated (PSI) Foundation.
- Dr. Laurent Brochard
  - ERS Assembly Lifetime Achievement Award by the Assembly Respiratory Intensive Care ESR Officers
  - SMH Best Teaching Award from University of Toronto IDCCM at the Art Slutsky Day.
- Dr. Gerard Curley’s trainee award:
  - Grace Hogan - Basic and Translational Science Award from the IDCCM, an award that recognizes the best submitted abstract for oral presentation.
- Dr. Sara Gray
  - Featured in the Toronto Life Magazine - “Toronto’s Best Doctors”
  - Outstanding Clinical Teaching Award from the Emergency Medicine, Faculty of Medicine, University of Toronto. The Emergency Medicine residents select the best clinical teacher of the year, across the city-wide division, based on specific criteria for teaching excellence, mentorship and engagement.
- Dr. Warren Lee
  - Awarded a prestigious infrastructure grant of $1,000,000 for his Center for advanced dynamic imaging of tissue barriers: cellular processes and molecular interactions from Canadian Foundation for Innovation (CFI).
- Dr. Warren Lee’s trainee awards:
  - Michael Sugiyama
    - Graduate Student Poster Prize from American Physiology Society for his poster presented at Experimental Biology.
    - 1st Prize Trainee Oral Presentation Award (Best Oral Presentation on LDL transcytosis project at the Canadian Lipoprotein Conference.
    - PhD Graduate Studentship from Ted Rogers Centre for Hear Research.
• Winner, iBEST Angel’s Den Trainee Competition, iBEST (Ryerson/St. Michael’s Hospital).
• Best Poster at the LMP Graduate Student Conference, Department of Laboratory Medicine and Pathobiology.

Dr. Art Slutsky
• Inaugural Presidential Plenary Lecturer, American Thoracic Society (ATS), Distinction, 110th Annual American Thoracic Society (ATS) International Conference on his lecture, “Evolution and development of mechanical ventilation”, recognized as one of the seminal clinical/scientific breakthroughs made during the past century that have revolutionized patient care and research in Pulmonary Medicine.
• Health Researcher of the Year from Canadian Institutes of Health Research.
• David Bennett Lectureship, UK Intensive Care Society
• Engineering Alumni Medal, University of Toronto

Dr. Natalie Wong - Outstanding Teaching Award from the Department of Medicine, University of Toronto.

Congratulations to Drs. Simon Abrahamson and Goffi for the success of the WINFOCUS Ultrasound Course in April 2015. It was a major success and it represents a significant milestone after relentless pursuit of this goal and importantly it reflects a big vision.

Congratulations to Dr. Haibo Zhang led an international research team composed of researchers from St. Michael’s Hospital and The First Affiliated Hospital of Guangzhou Medical University, China that has discovered a key role for the cytokine Midkine in the pathogenesis of fibrosis in ARDS. His paper, titled “Mechanical Stress Induces Lung Fibrosis via Midkine Signaling Pathway,” has been electronically published in the American Journal of Respiratory and Critical Care Medicine.

Promotions

Congratulations to Drs. Jan Friedrich and Claudia dos Santos on their promotion as Associate Professors.

Education

Dr. Natalie Wong, previously the Education Director for core residents in the Critical Care Department is now the Postgraduate Education Director for the Department of Medicine and at the same time the Director of Cardiac Arrest Training at St. Michael’s Hospital. She also continues to lead simulation education research in developing and maintaining hospital staff code blue skills. Dr. David Hall has been appointed as the Director of Education for core residents in Critical Care Department. In addition to this role, he also is the Course Director for the Respiratory block in the University of Toronto medical school’s curriculum. This is a huge undertaking and reflects highly on the respect held for him. Dr. Robert Chen was responsible for developing the clinical fellows teaching program in the CVICU. The program itself is highly successful, and is currently completely booked more than two years in advance.
The Department of Critical Care continues to pursue scientific discovery using novel techniques in its research endeavors, which has led to many successes in the past 2 years. Scientists/Researchers have published 307 publications in peer-reviewed journals, furthering the knowledge translation of their work. This research was, in part, made possible by 50 newly issued research grants both as principal investigators and collaborators in 2014 - 2015. They have also actively participated in the presentation of their research findings on the local, national and international level. There were a total of 93 local, 69 national, and 200 international presentations by the Faculty in the Critical Care Department at St. Michael's Hospital.
The leadership team for Critical Care Medicine at Sunnybrook Health Sciences Centre remained mostly unchanged in 2014 with Dr. Brian Cuthbertson being reappointed as the Chief of Critical Care Medicine for a further 5 year term. Dr. Gordon Rubenfeld continues to serve as Chief of the Trauma, Emergency and Critical Care Program. Drs. Shelly Dev and Cameron Guest continue to lead the education programme as our Residency Director and Co-Directors of the International Fellowship Program. As of January 1, 2015, Dr. Damon Scales stepped down as the Program Director of the University of Toronto Adult Critical Medicine Training Program, while Dr. Dominique Piquette was appointed as Associate Director, Education Research & Scholar Development for the IDCCM.

We are pleased to welcome to our team Drs. Hannah Wunsch and Louise Rose. Dr. Wunsch was recruited as a staff physician and clinician scientist, with appointments as Associate Professor in the Department of Anesthesiology at the University of Toronto and Scientist in Evaluative Clinical Sciences at the Sunnybrook Research Institute. Dr. Rose is the inaugural holder of the TD Professorship in Critical Care Nursing Research. This new research role is the first of its kind at Sunnybrook and will focus on conducting research to improve clinical outcomes for critical care patients. The aim of the TD Professorship is to create an environment for excellence in critical care nursing that embraces inter-professional care.

Research

In research, the Department enjoyed a number of notable academic accomplishments. In total our department generated 104 peer reviewed publications. Brian Cuthbertson has continued to lead the international SuDDICU collaboration which has now been awarded $5.2M in Australia and New Zealand and awaits funding decision in Canada. Dr. Gordon Rubenfeld has 17 publications listed this year including a prominent publication in JAMA-Internal Medicine on de-escalation of use of intensive glucose control. He has published several invited editorials including one questioning the value of ARDS prevention and one questioning the feasibility of increasing intensivist training and staffing in the US. Dr. Rubenfeld was invited to participate in the new Surviving Sepsis Guideline committee as well as an International Task Force on redefining sepsis.

Dr. Hannah Wunsch’s research focuses on the organization and management of critical care services, with particular foci on international comparisons of critical care, use of large databases to understand resource utilization and long-term outcomes among critically ill patients. She was awarded a CIHR operating grant for her project titled “Identifying Risk Factors for and Outcomes following Rehospitalizations for Elderly Critically Ill Patients”. Andre Amaral was awarded an Academic Health Sciences Centres’ Alternate Funding Plan Innovation Fund Innovation grant for his work on building collaborative relations between healthcare providers and patient families.
called “Therapeutic Alliances” (in the ICU) in an effort to enhance information to facilitate decision-making. Damon Scales was the inaugural recipient of the PSIF Graham Farquharson Knowledge Translation Fellowship (2012-2015). He authored 15 publications during 2014, and was the Principal Investigator of the ICE-PACS randomized controlled trial of pre-hospital therapeutic hypothermia (CIHR-funded) and the Preventing Premature Termination of Resuscitation after Cardiac Arrest stepped-wedge cluster randomized controlled trial (PremaTOR; CIHR & HSFC-funded). Louise Rose was the successful recipient of the Respiratory Care and Neuromuscular Disorders grant from Muscular Dystrophy Canada for her study titled: “Health Service Utilization for Assessment, Monitoring and Management of Respiratory Complications for Individuals with Neuromuscular Disease”. Dr. Rob Fowler was a Consultant to the World Health Organization (2013-2015), Department of Pandemic and Epidemic Diseases. During the West Africa Ebola Virus Disease Outbreak, he, amongst other things, worked with Dr. Nikki Shindo, the WHO Headquarters lead for clinician deployments and clinical care, was deployed to Guinea and helped establish clinical care at the Donka Hospital Treatment facility, assisted in medical evacuations for exposed and infected health care workers, and carried out an observational study of patients with Ebola virus disease clinical presentation and risk factors for poor outcome. In addition to his scientific work on Ebola being published in the *New England Journal of Medicine*, Dr. Fowler has been covered in the major media including 8 articles in the New York Times.

The Visiting Professorship Program organized by Dr. Gordon Rubenfeld and Meredith Malloy continues to be tremendously successful in attracting international experts in Critical Care to the IDCCM. In 2014 we hosted eight Visiting Professors from across North America. The Clinical Research in Progress sessions continue to provide a supportive environment where investigators can bring research projects for critical evaluation and discussion.

The Critical Care Research Department, led by our Research Manager, Nicole Marinoff, RN continues to support the IDCCM with their participation in industry and academic trials. In 2014, the department received 14 new Research Ethic Board approvals in addition to the 18 that remain open.

**Education and Quality Improvement**

We pride ourselves on our high quality clinical teaching and in the 2014-2015 academic year, the Department has continued to receive high scores for teaching assessments from both resident and fellowship training attachments.

We are also continuing to develop simulation teaching in technical skills based competencies with increased success. Dr. Shelly Dev continues to create innovative media for education. To date she has published several peer-reviewed videos in the *New England Journal of Medicine* and is currently developing additional videos with them. Her collaborative projects with colleagues in the IDCCM include the media development for the diagnosis of ARDS, communication strategies for patients and families in the ICU and the technology for aiding phonation in patients with chronic tracheostomies. In addition, Dr. Dev has expanded her involvement in formalized teaching beyond undergraduate and postgraduate learners to CME learners to whom she has been delivering seminars on strategies to improve teaching performance.
Dr. Neill Adhikari helped with Ebola-related clinical training at a WHO-organized meeting in Brazzaville, Congo of clinicians and Ministry of Health personnel from 10 at-risk sub-Saharan Africa countries that currently do not have any cases. The training was based on existing WHO guidance of management of severely ill patients in resource-limited settings that was adapted based on Ebola-related considerations and direct experience from treatment centres.

In Quality Improvement, the Department continues to collect data on key quality indicators reflecting our performance. Drs. Andre Amaral and Gordon Rubenfeld published an important paper in the *American Journal of Respiratory and Critical Care Medicine* evaluating the ICU coverage model at Sunnybrook. This paper, and its accompanying editorial, focused on how little we understand about the effect of handing over care from one doctor to the next. Contrary to many expectations, it was discovered that, at Sunnybrook, cross coverage by a skilled team did lead to overnight changes in management, but these changes were associated with improved outcome. This is an active area of investigation for Dr. Amaral who continues to provide quality improvement leadership to the Department.
The Paediatric and Cardiac Intensive Care Divisions continue to be extremely busy with 2,100 admissions for the past academic year. Outcomes remain excellent and comparable to any benchmark for mortality and quality. The quality and safety initiatives within the department continue to be amplified and successful. There are always areas for improvement, and as part of the hospital wide "Caring Safely" program, Dr Annich and Moga are leading initiatives to reduce healthcare acquired conditions.

We were very pleased to recruit 2 new faculty to the Cardiac Critical Care Unit, Dr Michael-Alice Moga and Dr Roxanne Kirsch. We have 3 additional faculty positions to fill during 2016 and this will be an exciting time for the growth and the future of the Department. The education mission has continued under the leadership of Drs. Afrothite Kotsakis and Briseida Mema, and for the next 12 months under Dr Humpl while Dr Kotsakis is on maternity leave. Our fellowship program has been stressed by the volume and complexity of patients over the latter part of 2015, particularly on the cardiac critical care unit; the clinical workload has been excessive and we appreciate very much the efforts and dedication of our fellows helping us meet this demand. We continue to train Fellows from across the world and plan to continue our close relationship with trainees through our Alumni Association. We held our third Alumni meeting at the Pediatric Intensive Care Society meeting in Birmingham, UK. As the host institution, we have been preparing for the 8th World Congress in Pediatric Intensive and Critical Care to be held in June 2016 in Toronto; we are planning workshops and scientific meetings that will appeal everyone across the breadth of critical care medicine.

The department continues to have a national and international impact with staff speaking at various academic forums across Canada and worldwide. Clinical research within the department continues to grow and be active under the direction of Dr. Jamie Hutchison. In the past 2 years we have focused on building a strong infrastructure and have doubled our team members to a total of 22. Joining our team is Dr. Danny Eytan and Andrew Goodwin who are working with data analytics on Dr. Peter Laussen's T3 Platform. We have also added a project manager, 2 coordinators, and more recently a data programmer to help with the workload of our Senior Data Analyst. There have been several successful Grants over the past 2 years. Dr. Anne-Marie Guerguerian received $617,000 CIHR funding for 3 years for 'Quantifying Brain Injury on Computed tomography in Hospitalized Children: A Prospective Trial’. She also had 2 students receive internal awards totaling $35,000. Dr. Jamie Hutchison received $3m Brain Canada Platform Support Grant for 3 years to develop a national Biobank and database for patients with traumatic brain injury. He also received $1.9m from CIHR for Canadian Traumatic Brain Injury Research Consortium. One of the clinical research fellows under Dr. Hutchison’s direction received a 2 year internal award for $40,000. Dr. Alejandro Floh received $75,000 from NIH Heart, Lung and Blood Institute Pediatric Heart Networks Scholars Grant to investigate...
'Early Nutritional Delivery on Glucose Control, Insulin Resistance and Systemic Inflammation Following Pediatric Cardiac Surgery. We were host to the 2015 CCCTG – Canadian Critical Care Trials Group fall workshop. Over all it has been a highly productive 2 years with over 80 active studies at varying stages and it continues to grow with new physicians joining our staff and anxious to participate in the research program.
Department of Critical Care Medicine, University Health Network & Mount Sinai Hospital

Niall Ferguson, MD, MSc, FRCPc

The Critical Care programme at University Health Network and Mount Sinai Hospital is a complex structure involving the provision of intensive care across 4 physically separate geographic sites and 2 separate hospital organizations. We have over 20 intensivists working in our three Level-3 medical-surgical ICUs (our MSICU group), and also count on the involvement of our colleagues in the Peter Munk Cardiac Centre who provide care for patients in the Cardio-Vascular ICU (CVICU) and Coronary ICU (CICU) at Toronto General Hospital.

Personnel

Over the course of 2014-2015 several important personnel changes occurred within our group.

New Faculty: Dr. Elizabeth Wilcox, Clinician-Scientist, TWH
Dr. Alberto Goffi, Clinician Teacher, TWH
Dr. Christie Lee, Clinician-Teacher, MSH
Dr. Michael Detsky, Clinician-Investigator, MSH

Departing Faculty: Dr. Tom Stewart, MSH
Dr. Michael Christian, MSH

We wish our former colleagues all the best in their future endeavours, while at the same time we are excited to welcome our new team members and look forward to their future successes. The executive committee for our group in 2014-15 was comprised of Drs. Neil Lazar, Jeff Singh, and Stephen Lapinsky serving as Site Directors for Toronto General, Toronto Western, and Mount Sinai, respectively, along with Dr. John Granton as Head, Division of Respirology, and Dr. Niall Ferguson, Head of Critical Care Medicine.

Research

This was another excellent year for our research group. Our grant and publications records were strong (see individual reports). We participated in numerous studies – some investigator-led from within our group, some investigator-initiated from other CCCTG collaborators, and some from industry. This was also a time of transition for leadership within our research group.
We thank both Dr. Margaret Herridge (UHN) and Dr. Geeta Mehta (MSH) for their many years of excellent leadership of the critical care research programmes at the 2 hospitals. Based on goals set within the group, we set out to build a more integrated research program across all 3 sites, and in 2015 Dr. Eddy Fan was the successful applicant for the position of tri-site Research Director. He is working with research leads from each site - Drs. Wilcox, Detsky, and Del Sorbo – to maximize productivity and efficiency across the group.

**Education/Innovation**

During 2014-2015, new education leads were appointed at MSH (Dr. Christie Lee) and TWH (Dr. Alberto Goffi) – both of whom have done a phenomenal job of reinvigorating the educational experience for trainees of all levels at these sites. In addition, Dr. Andrew Steel, education lead at TGH, was appointed as Program Director for the IDCCM and given a mandate to oversee education of both critical care residents and fellows across the University. Key quality and innovation initiatives included delirium screening, early mobility projects, Ebola preparedness, extra-corporeal life support, and continuous EEG monitoring.
Critical Care Canada Forum (CCCF) 2014-2015

Critical Care Canada Forum (CCCF) is a 3-day conference organized by the Interdepartmental Division of Critical Care Medicine, which focuses on topics that are relevant to the individuals involved in the care of critically ill patients, wherever the patients are located. Internationally recognized, the Critical Care Canada Forum focuses on leading-edge science through informative and interactive sessions, dynamic speakers and numerous exhibitions. The CCCF is a place where doctors, nurses and respiratory therapists can collaborate on shared knowledge across disciplines, departments and institutions.

Critical Care Canada Forum (CCCF) was held as usual both years in late October and early November, continuing in its usual location at the Sheraton Centre Hotel & Convention Centre. The conference proper was preceded by several pre-congress courses, including the popular Residents’ Day (co-sponsored by the Canadian Critical Care Society) and workshops on extra-corporeal life support, as well as ultrasound in the ICU.

Each year the conference is attended by approximately 1000 participants and features presentations covering many diverse topics including mechanical ventilation, sepsis, ARDS, long-term outcomes and rehab, sedation and analgesia strategies, and systems for improving quality and safety. As usual we had presentations of a number of important randomized trials – including studies on cost-effectiveness of VTE prophylaxis, high-frequency oscillation, non-invasive ventilation, and rehabilitation.

In addition to the strong scientific programme, social aspects of the conference are also highly rated, including the Reception at the Top of the Sheraton. CCCF also has a number of affiliated meetings before and during conference period, including the Canadian Critical Care Society, the Canadian Critical Care Trials Group, and the Canadian Intensive Care Foundation.

The organizing committee for Critical Care Canada Forum consists of: Brian Kavanagh (Chair, Organizing Committee); Niall Ferguson (Chair, Scientific Programme); Shelly Dev; Claudia Dos Santos; Rob Fowler; Stephen Lapinsky; John Marshall; Damon Scales; and Art Slutsky. The conferences in 2014 and 2015 were a huge success, and planning is already underway for the upcoming year October 30-November 2, 2016. More details are available at www.criticalcarecanada.com.

The Critical Care Canada Forum is where Canada’s intensivists put the latest science into practice.
5 Year Impact Factor Publication Analysis

Number of Publications

Mean Impact Factor

5 Year Impact Factor Publication Analysis
Our interdepartmental division consists of 77 faculty members and 8 clinical associates.
University Rank Full-Time Faculty

Professors 21
Associate Professors 17
Assistant Professors 38
Lecturer 1
Clinical Associates 8
Research Job Description Faculty

Clinician Administrators 6
Clinical Scientists 32
Clinician Teachers 13
Clinician Educators 11
Clinician Investigators 12
Adjunct Scientist 1
Scientists Track 8
Not Applicable 2

Clinician Administrators: 7%
Clinical Scientists: 33%
Clinician Teachers: 15%
Clinician Educators: 11%
Clinician Investigators: 11%
Adjunct Scientist: 1%
Scientists Track: 8%
Not Applicable: 2%

- Clinician Administrators
- Clinical Scientists
- Clinician Teachers
- Clinician Educators
- Clinician Investigators
- Adjunct Scientist
- Scientists Track
- Not Applicable
## Appendix I: Faculty List

### St. Michael's Hospital

<table>
<thead>
<tr>
<th>Name</th>
<th>University Rank</th>
<th>Research Rank</th>
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</thead>
<tbody>
<tr>
<td>Abrahamson, Simon</td>
<td>Associate Professor</td>
<td>Clinician Educator</td>
</tr>
<tr>
<td>Ahmed, Najma</td>
<td>Associate Professor</td>
<td>Clinician Educator</td>
</tr>
<tr>
<td>Baker, Andrew</td>
<td>Professor</td>
<td>Clinician Scientist</td>
</tr>
<tr>
<td>Brochard, Laurent</td>
<td>Professor</td>
<td>Clinician Scientist</td>
</tr>
<tr>
<td>Burns, Karen</td>
<td>Assistant Professor</td>
<td>Clinician Scientist</td>
</tr>
<tr>
<td>Curley, Gerard</td>
<td>Associate Professor</td>
<td>Clinician Scientist</td>
</tr>
<tr>
<td>Darrah, William</td>
<td>Assistant Professor</td>
<td>Clinician Teacher</td>
</tr>
<tr>
<td>Dos Santos, Claudia</td>
<td>Associate Professor</td>
<td>Clinician Scientist</td>
</tr>
<tr>
<td>Friedrich, Jan</td>
<td>Associate Professor</td>
<td>Clinician Scientist</td>
</tr>
<tr>
<td>Gray, Sara</td>
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<td>Clinician Teacher</td>
</tr>
<tr>
<td>Hall, David</td>
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<td>Hayes, Chris</td>
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<tr>
<td>Houston, Patricia</td>
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<tr>
<td>Kataoka, Mark</td>
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<td>Klein, David</td>
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<td>Laffey, John</td>
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<td>Lawless, Bernard</td>
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<td>Lee, Warren</td>
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<td>Levene, Richard</td>
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<td>Marshall, John</td>
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<tr>
<td>Name</td>
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<tr>
<td>Mazer, David</td>
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</tr>
<tr>
<td>Pronovost, Antoine</td>
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<td>Clinician Administrator</td>
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<tr>
<td>Rigamonti, Andrea</td>
<td>Assistant Professor</td>
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</tr>
<tr>
<td>Rizoli, Sandro</td>
<td>Professor</td>
<td>Clinician Scientist</td>
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<tr>
<td>Sinderby, Christer</td>
<td>Assistant Professor</td>
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</tr>
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<td>Slutsky, Arthur</td>
<td>Professor</td>
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</tr>
<tr>
<td>Tousignant, Claude</td>
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<tr>
<td>Wong, Natalie</td>
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<tr>
<td>Zhang, Haibo</td>
<td>Professor</td>
<td>Clinician Scientist</td>
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### The Hospital for Sick Children

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<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Annich, Gail</td>
<td>Professor</td>
<td>Clinician Investigator</td>
</tr>
<tr>
<td>Balit, Corrine</td>
<td>Assistant Prof.</td>
<td>Clinician Investigator</td>
</tr>
<tr>
<td>Cox, Peter</td>
<td>Professor</td>
<td>Clinician Administrator</td>
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<tr>
<td>Floh, Alejandro</td>
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<tr>
<td>Guerguerian, Anne-Marie</td>
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<tr>
<td>Humpl, Tilman</td>
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<tr>
<td>Hutchison, Jamie</td>
<td>Professor</td>
<td>Clinician Scientist</td>
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<td>Kavanagh, Brian</td>
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<td>Kirsch, Roxanne</td>
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<td>Kotsakis, Afrothite</td>
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<td>Laussen, Peter</td>
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<td>Mema, Briseida</td>
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<tr>
<td>Moga, Michael-Alice</td>
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<td>Clinician Scientist</td>
</tr>
<tr>
<td><em>Mohseni-Bod, Hadi</em> (left July 2015)</td>
<td>Assistant Prof.</td>
<td>Clinician Educator</td>
</tr>
<tr>
<td>Parshuram, Christopher</td>
<td>Professor</td>
<td>Clinician Scientist</td>
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<tr>
<td>Schwartz, Steven</td>
<td>Associate Prof.</td>
<td>Clinician Investigator</td>
</tr>
<tr>
<td><em>Sivarajan, Ben</em> (left June 2015)</td>
<td>Assistant Prof.</td>
<td>Clinician Investigator</td>
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### Sunnybrook Hospital

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<tr>
<td>Adhikari, Neill</td>
<td>Lecturer</td>
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<tr>
<td>Amaral, Andre</td>
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<td>Chapman, Martin</td>
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<td>Cuthbertson, Brian</td>
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<td>Clinician Scientist</td>
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<td>Dev, Shelly</td>
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<td>Fowler, Robert</td>
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<td>Clinician Investigator</td>
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<td>Guest, Cameron</td>
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<td>Piquette, Dominique</td>
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<td>Rose, Louise</td>
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<td>Rubenfeld, Gordon</td>
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<td>Scales, Damon</td>
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<td>Sinuff, Tasnim</td>
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<td>Smith, Terry</td>
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<td>Tremblay, Lorraine</td>
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<tr>
<td>Wunsch, Hannah</td>
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University Health Network

**Toronto General Hospital**

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<tr>
<td>Del Sorbo, Lorenzo</td>
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<tr>
<td>Downar, James</td>
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<tr>
<td>Fan, Eddy</td>
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<td>Ferguson, Niall</td>
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<td>Granton, John</td>
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<td>Herridge, Margaret</td>
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<td>Lazar, Neil</td>
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<tr>
<td>Steel, Andrew</td>
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**Toronto Western Hospital**

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<tr>
<td>Demajo, Wilf</td>
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<td>Goffi, Alberto</td>
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<td>Hawryluck, Laura</td>
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<td>Singh, Jeff</td>
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<td>Wilcox, Elizabeth</td>
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<tr>
<td>Name</td>
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<td>Lapinsky, Stephen</td>
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<td>Lee, Christie</td>
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<td>Clinician Teacher</td>
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<tr>
<td>Mehta, Sangeeta</td>
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# Clinical Associates

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<tr>
<td>Detsky, Michael</td>
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<td>Scientist Track</td>
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<tr>
<td>Goddard, Shannon</td>
<td>Sunnybrook Hospital</td>
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<tr>
<td>Golan, Eyal</td>
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<tr>
<td>Goligher, Ewan</td>
<td>Mt. Sinai Hospital</td>
<td>Scientist Track</td>
</tr>
<tr>
<td>Leligdowicz, Aleksandra</td>
<td>Toronto Western Hospital</td>
<td>Scientist Track</td>
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<tr>
<td>Man, Jeffrey</td>
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<tr>
<td>McCredie, Victoria</td>
<td>Sunnybrook Hospital</td>
<td>Scientist Track</td>
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<tr>
<td>Munshi, Laveena</td>
<td>Mt. Sinai Hospital</td>
<td>Scientist Track</td>
</tr>
</tbody>
</table>
Appendix II: Summary Activity Reports
**Dr. Simon Abrahamson (St. Michael's Hospital)**

### Peer-Reviewed Publication

**Journal Article**


### Invited Lectures and Presentations

**International**

**2014 Ap 30**  

**2014 Feb**  
**Presenter.** Unfractionated Heparin for Venous Thromboembolism Prophylaxis in Patients With Aneurysmal Subarachnoid Hemorrhage Session Title: Aneurysm and SAH and Other Neurocritical Management. International Stroke Conference Moderated Poster Abstracts. San Diego, California, United States. Presenters: de Oliveira Manoel AL, Turkel-Parrella D, Goffi A, McCredie V, Ben-Israel D.

**National**

**2014**  
**Instructor.** National Acute Care Events National Simulation (ACES) Training Course For Canadian Critical Care Fellows. Royal College of Physicians and Surgeons of Canada. Toronto, Ontario, Canada.
Dr. Najma Ahmed (St. Michael’s Hospital)

Peer-Reviewed Publications

Journal Articles


Bawazeer M, Ahmed N, Izadi H, McFarlan A, Nathens A, Pavenski K. Compliance with a Massive Transfusion Protocol (MTP) Impacts Patient Outcome Injury. Injury. 2015 Jan;46(1):21-8. 2105 jan;46(1) 21-8. (Trainee publication, Mohamned Bawazeer was a trauma fellow when this study was conducted). Coauthor or Collaborator.


Invited Lectures and Presentations

International

2015 Oct 5  Invited Speaker. Preserving and advancing surgical education in a world with no time. American College of Surgeons. Chicago, Chile. Presenter(s): Barbara Bass, Helen McRae, Robin McLeod. Invited to speak and be part of a town hall on this topic.

2014 Feb  Presenter. Implementation of a Tiered Trauma Team Activation System can improve identification of patients who require immediate operative intervention. Trauma Quality Improvement Program, American College of Surgeons. United States. Presenters: Rezende J.

Provincial


2014 Apr  Invited Speaker. Innovations in Trauma Education. Trauma Association of Canada. Montreal, Quebec, Canada.
Local


Peer-Reviewed Fundings

Dr. Andrew Baker, Chief (St. Michael’s Hospital)

Peer-Reviewed Publications

Journal Articles


Shemie SD, Baker AJ. Where have we been? Where are we going? Initiatives to improve uniformity of policies, integrity of practice, and improve understanding of brain death within the global medical community and lay public. J Crit Care. 2014 Aug 15. Senior Responsible Author.


Peer-Reviewed Fundings

2015 Sep - 2016 May Principal Investigator. Ontario Concussion Care Strategy: Phases I and II. Ontario Neurotrauma Foundation. $70,000.00 CAD. [Grants]

2015 Jul - 2017 Jun Principal Investigator. The role of neuroinflammation following traumatic brain injury to the pathogenesis of neurodegenerative disorders. University of Toronto, Dept of Anesthesia. $60,000.00 CAD. [Grants]


2015 Jul - 2017 Jun Supervisor. A pilot study of sub-anesthetic ketamine infusion for neuroprotection after aneurysmal subarachnoid hemorrhage: Effects on white matter integrity, inflammatory biomarkers, and neurocognitive outcome. PSI Foundation. PI: Bell, Joshua. $18,000.00 CAD. [Grants]


2013 Jul – 2015 Jun  **Principal Investigator.** Endothelial progenitor cells in mild traumatic brain injury: biomarker and mechanisms in recovery. University of Toronto, Dept of Anesthesia. $80,000.00 CAD. [Grants]


2013 Apr – 2014 Mar  **Principal Investigator.** Development of Biomarker Profile and Rapid Screening Tool for mTBI due to Subclinical Primary Blast. Development of Biomarker Profile and Rapid Screening Tool for mTBI due to Subclinical Primary Blast. $ 99,927.00 CAD. Collaborator: Park E. [Grants]

2011 Jul – 2016 Jun  **Co-investigator.** Resuscitation Outcomes Consortium- Core Training Grant. National Institutes of Health (NIH) (USA). $335,000.00 CAD. [Grants]

2010 Jul – 2016 Jun  **Co-investigator.** From bench to bedside to curbside. Heart and Stroke Foundation of Canada (HSFC). $1,500,000.00 CAD. [Grants]

2009 Sep – 2016 Jun  Co-investigator. From bench to bedside to curbside. Canadian Institutes of Health Research (CIHR). $1,057,000.00 CAD. [Grants]

Invited Lectures and Presentations

International


Provincial


Local


Honours and Awards

2014 Sep  The North Shore University Hospital Brain Aneurysm Center Chair of Research Award. The Brain Aneurysm Foundation & Scientific Advisory Council. Distinction.
Dr. Laurent Brochard (St. Michael’s Hospital)

Peer-Reviewed Publications

Journal Articles


Rittayamai N, Katsios CM, Beloncle F, Friedrich JO, Mancebo J, Brochard L. Pressure-Controlled vs Volume-Controlled Ventilation in Acute Respiratory Failure: A Physiology-Based Narrative and Systematic Review. Chest. 2015 Aug 1;148(2):340-55. **Senior Responsible Author.**


Thille AW, Roche-Campo F, Brochard L. Ten reasons to be more attentive to patients when setting the ventilator. Intensive Care Med. 2015 Apr 30. **Senior Responsible Author.**


Mojoli F, Chiumello D, Pozzi M, Algieri I, Bianzina S, Luoni S, Volta CA, Braschi A, **Brochard L.**

Esophageal pressure measurements under different conditions of intrathoracic pressure. An in vitro study of second generation balloon catheters. Minerva Anestesiol. 2015 Jan 30;81(8):855-64. **Senior Responsible Author.**

Danin PE, Girou E, Legrand P, Louis B, Fodil R, Christov C, Devaquet J, Isabey D, **Brochard L.**

Description and microbiology of endotracheal tube biofilm in mechanically ventilated subjects. Respir Care. 2015 Jan 1;60(1):21-9. **Senior Responsible Author.**


Cordioli RL, Park M, Costa EL, Gomes S, **Brochard L,** Amato MB, Azevedo LC. Moderately high frequency ventilation with a conventional ventilator allows reduction of tidal volume without increasing mean airway pressure. Intensive Care Med Exp. 2014 Dec 1;2(1):13. **Coauthor or Collaborator.**


**Book Chapters**


**Editorials**


Fan E, Brochard L. Underuse versus equipoise for low tidal volume ventilation in acute respiratory distress syndrome: is this the right question?*. Crit Care Med. 2014 Oct 1;42(10):2310-1. Principal Author.


Research Letters and Letters to Editor


Reviews


Pinsky MR, Brochard L, Kellum JA. Ten recent advances that could not have come about without applying physiology. Intensive Care Med. 2015 Mar 25. Epub ahead of print]. Coauthor or Collaborator.


**Peer-Reviewed Fundings**

2015 Jan - present  **Co-Principal Investigator.** Gas eXchange eXtracorporeaL (XXL) Techniques Study. UHN/MSH AFP Innovation Fund. PI: Fan, Eddy. $130,950.00 CAD. [Grants]

2015 Apr - 2017 Mar  **Principal Investigator.** Randomized cross-over physiologic study of High Flow nasal oxygEN cannula versus non-invasive ventilation in cystic fibrosis: The HIFEN study. Canadian Cystic Fibrosis Foundation. Cystic Fibrosis Canada Grant ID: #3050. $97,925.00 CAD. [Grants]


2014 Jan - 2014 Dec  **Co-Principal Investigator.** The Promizing Study (Proportional assist ventilation for minimizing the duration of mechanical ventilation). CANADA. Canadian Institutes of Health Research (CIHR). Industry Partnership with Covidien. PI: Bosma, Karen. Collaborator(s): Brochard, Laurent. $900,000 CAD. [Grants]
2013 Oct - 2016 Sep  **Co-Investigator.** The Importance of Spontaneous Breathing Efforts in Mechanically Ventilated Patients with Acute Respiratory Distress Syndrome. Physicians Services Incorporated Foundation Operating Grant (PSI). PI: Eddy Fan. Collaborator(s): Brochard, Laurent. $50,000.00 CAD. [Grants]

2012 - 2014  **Principal Investigator.** Clinical Research Hospital Project for a Multicentre Randomized Controlled Trial ARDS (BIRDS). Ministère des Affaires sociales et de la Santé. Clinical Research Hospital Project (PHRC). 250,000.00 EUR. [Clinical Trials]

2010 - 2014  **Co-Investigator.** Clinical Research Hospital Project EOLIA (ECMO in ARDS) for a Multicentre Randomized Controlled Trial. Ministère des Affaires sociales et de la Santé. Clinical Research Hospital Project (PHRC). 500,000 EUR. [Clinical Trials]

2009 - 2015  **Collaborator.** Hyper2S (fluid loading in sepsis). Ministère des Affaires sociales et de la Santé. Clinical Research Hospital Project (PHRC). Collaborator(s): Brochard, L; Schortgen, F. 150,000 EUR. [Grants]

**Non-Peer-Reviewed Funding**

2014 Jan - 2018 Dec  **Principal Investigator.** Start-Up Operating Funds (Annually). St. Michael’s Hospital. $200,000.00 CAD. [Contracts]

2014 - 2016  **Principal Investigator.** Randomized cross-over physiologic study of High Flow nasal oxygEN cannula versus non-invasive ventilation in cystic fibrosis: The HIFEN study. Fisher and Paykel. $20,000.00 CAD. [Industrial Grants]

**Invited Lectures and Presentations**

**International**


2015 Nov 17  **Invited Speaker.** University of Arizona, Department of Medicine, Pulmonary and Critical Care Grand Rounds. Tucson, Arizona, United States. : Brochard, Laurent. Respiratory Muscle Behavior under Mechanical Ventilation.


2015 May 29  **Chair.** 26 SMART Congress. Start Promotions. Milano, Italy. Emergency 1 (with F. Kette).

2015 May 28  **Invited Speaker.** 26 SMART Congress. Start Promotions. Milano, Italy. Pressure & volume during spontaneous breathing: do they matter? How to measure them in the non-intubated patient?

2015 May 27  **Invited Speaker.** 26 SMART Congress. Start Promotions. Milano, Italy. Synchrony and asynchrony in assisted ventilation.


2014 Dec 12 **Invited Speaker.** American Association for Respiratory Care. 41st Donald F Egan Scientific Memorial Lecture What Have We Learned about Non-invasive Ventilation in the Past 20 years? Nevada, Las Vegas, United States.
2014 Dec 2  **Invited Speaker.** Department of Medicine, University of Chicago. Huenning Critical Care Visiting Professor, Medicine Grand Rounds ARDS: What we have learned, What we have not. Chicago, Illinois, United States.


2014 May 24  **Invited Speaker.** ECMO and Euro-ELSO 2014 International Course Extracorporeal lung support: CPAP, VCV,APRV, NAVA or nothing at all during VV-ECMO? Paris, France

2014 May 19  **Invited Speaker.** American Thoracic Society International Conference (ATS) Assembly on Critical Care Membership Meeting - Journal Presentation. San Diego, California, United States.


**Provincial**


2015 Oct 17  **Invited Speaker.** JIVA. Quebec, Canada. Speaker: Ventilation protectrice et individualisation des réglages; Ventilation protectrice et individualisation des réglages; Haut débit nasal ou Bipap?.


Local


Oct 27, Speaker: Ventilation-Muscles & Synchrony: Integration-Individualising Ventilation


2015 Sep 30 Invited Speaker. Department of Medicine, University Health Network/Mt. Sinai Hospital, Medical Grand Rounds. Toronto, Ontario, Canada. Speaker: Goldstein Lecture: How We Learned Physiology by Using Mechanical Ventilation.

2015 Sep 24 Invited Speaker. Early Weaning Symposium. Toronto, Ontario, Canada. 1. The Scope of the Problem – Current Epidemiology, Practice and Health Policy Implications of Weaning (Moderator)
3. Components of a Successful Weaning Program - Optimizing Your Patient: Speaker: Bedside Assessment: is it the Heart or the Lungs?.


2014 Oct 15  **Invited Speaker.** St. Michael's Hospital, Department of Medicine, Medical Grand Rounds. The Acute Respiratory Distress Syndrome: What We Have Learned, What We Have Not. Toronto, Ontario, Canada.


2014 Feb 27  **Invited Speaker.** U of T Critical Care Physiology Rounds. Sleep in the Critically Ill - Sleep During Critical Illness. Toronto, Ontario, Canada.

**Honours and Awards**

2015  ERS Assembly Lifetime Achievement Award (by the Assembly 2 Respiratory Intensive Care ERS officers), European Respiratory Society (ERS), Netherlands. (Distinction)

2014  ERS Fellowship Honorary Member. European Society of Intensive Care Medicine.

2014  41st Donald F Egan Scientific Memorial Lecturer. American Association for Respiratory Care.

Peer-Reviewed Publications

Journal Articles


**Burns K**, Kho ME. How to assess a survey report: a guide for readers and peer reviewers. CMAJ. 2015 Feb 17. **Principal Author.**


Burns K, Premji A, Meade MO, Adhikari NKJ. Weaning Critically Ill Adults with Noninvasive Positive Pressure Ventilation: An Updated Systematic Review and Meta-Analysis. Review. CMAJ. 2014 Feb 18:186(3);112-122. **Principal Author.**


Chant C, Wang A, Burns K, Dos Santos CC, Hwang SW, Friedrich JO, Smith OM. Critical illness in homeless persons is poorly studied: a systematic review of the literature. Intensive Care Med. 2014 Jan:40(1);123-5. **Coauthor or Collaborator.**


**Burns K, Lellouche F, Nisenbaum R, Lessard M, Friedrich J, Blackwood B.** SmartCare™ versus non-automated mechanical ventilation strategies on discontinuation time for adults in the postoperative period. The Cochrane Database of Syst Rev. 2014: 2. **Principal Author.**

**Burns K, Lellouche F, Nisenbaum R, Lessard M, Friedrich J.** SmartCare™ versus non-automated weaning strategies for weaning time in invasively ventilated critically ill adults. The Cochrane Database of Syst Rev. 2014. **Principal Author.**


**Abstracts**

Greco P, Every H, Porretta K, **Burns K.** Does Pressure Matter? A Comparison of CPAP vs. No Ventilator Support in the Measurement of the Rapid Shallow Breathing Index. Canadian Respiratory Care Society Meeting. 2014:50(2);57. **Coauthor or Collaborator.**

**Burns K, Premji A, Rizvi L, Leung D, Hammond Mobilio M, Gotlib-Conn L, Smith O.** A Randomized Trial of Different Strategies for Introducing Research to Substitute Decision Makers: The Approach Trial (Qualitative Study) AJRCCM. 2014; A1145. **Principal Author.**


**Burns K, Lellouche F, Nisenbaum R, Lessard M, Friedrich JO.** SmartCare versus Non-automated weaning Strategies for Weaning Time in Invasively Ventilated Critically Ill Adults. AJRCCM. 2014; A4468. **Principal Author.**

Badin M, Brown H, **Burns K, Friedrich JO, Mazer DS, Mazer CD.** Use of Alternative Consent Models in Randomized Trials of Acute Care Research: A Systematic Review. AJRCCM. 2014. **Coauthor or Collaborator**

Digby GC, Parker CM, Keenan SP, Muscedere J, Sinuff T, **Burns K, Mehta S, Ronco JJ, Kutsogiannis DJ, Rose L, Ayas NT, Berthiaume LR, D’Arsigny CL, Stollery DE.** Non-Invasive Ventilation Practice Patterns in Canadian Tertiary Care Centres: A Descriptive Analysis. Canadian Respiratory Journal. 2014. **Coauthor or Collaborator.**

**Book Chapters**

Peer-Reviewed Fundings


2013 Mar – 2015 Mar  Principal Applicant. A Nested Study Within An International Observational Study. Tech Value Net. $70,950.00 CAD. [Grants]


Principal Applicant. Practice Pattern Variation in Liberating Critically Ill Adults from Invasive Mechanical Ventilation: An International Study. GE Healthcare. $15,000.00 CAD. [Grants]

Principal Applicant. Practice Pattern Variation in Liberating Critically Ill Adults from Invasive Mechanical Ventilation: An International Study. Fisher & Paykel Inc. $25,000.00 CAD. [Grants]

Principal Applicant. Practice Pattern Variation in Liberating Critically Ill Adults from Invasive Mechanical Ventilation: An International Study. Covidien Inc. $50,000.00 CAD. [Grants]

Principal Applicant. The Impact of Practice Pattern Variation in Discontinuing Mechanical Ventilation in Critically Ill Adults. Ministry of Research and Innovation. $124,842.00 CAD. Collaborators: Cook D, Meade M, Dodek P, Slutsky A et al. [Grants]

Invited Lectures and Presentations

International


Provincial


National


Local


Honours and Awards


2014  Research Engagement Award. Patient and Family Centered Care Committee, St Michael's Hospital.
**Dr. Gerard Curley (St. Michael's Hospital)**

**Peer-Reviewed Publications**

**Journal Articles**


Hayes M, **Curley GF**, Contreras M, Higgins BD, Laffey JG. Mesenchymal stromal cells are more effective than the MSC secretome in diminishing injury and enhancing recovery following ventilator-induced lung injury. Intensive Care Medicine Experimental. 2015 May 15. In Press. **Co-Principal Author.**

Hayes M, Masterson C, Devaney J, Barry F, Elliman S, O’Brien T, O’Toole D, **Curley GF**, Laffey JG. Therapeutic efficacy of human mesenchymal stromal cells in the repair of established ventilator-induced lung injury in the rat. Anesthesiology. 2015 Feb;122(2):363-73. **Coauthor or Collaborator.**

**Book Chapters**

**Curley GF**. What is the role of empiric antibiotic therapy in sepsis. In: Evidence Based Practice of Critical Care. 2nd. Elsevier Companies Inc (Publication Autumn 2014); 2015. In Press. **Principal Author.**


**Commentaries**

**Curley GF**, Laffey JG, Zhang H, Slutsky AS. Noninvasive respiratory support for acute respiratory failure—high flow nasal cannula oxygen or non-invasive ventilation? J Thorac Dis. 2015 Jul 1;7(7):1092-1097. **Principal Author.**


Peer-Reviewed Fundings


2015 - 2020  Principal Investigator. Activation of Mesenchymal Stem Cells with Danger Signals: Enhancing Bacterial Clearance and Tissue Repair during sepsis-induced ARDS. Ontario Early Researcher Award. $150,000.00 CAD. [Grants]

2015 - 2016  Co-Investigator. IMPACT (IMproved Pulmonary repair with Advanced Cell Therapy) for Acute Respiratory Distress Syndrome. Mitacs-Accelerate. Graduate Research Internship Program. $80,000.00 CAD. [Grants]

2014 - 2019  Principal Investigator. Pre-activated Mesenchymal Stem Cell Therapy for Bacterial Pneumonia. Canadian Anesthesiologists’ Society. Canadian Anesthesia Research Foundation Operating Grant. $30,000.00 CAD. [Grants]


2013 - 2016  Principal Investigator. Fate and function of MSCs in ARDS and sepsis. University of Toronto Clinician Scientist Transition Award. $150,000.00 CAD. [Grants]

2013 - 2015  Principal Investigator. Optimizing MSC-macrophages interactions in ARDS and sepsis. International Anesthesia Research Society Mentored Research Award. $150,000.00 USD. [Grants]

2013 - 2015  Co-Investigator. Targeting the MSC-Macrophage interaction to maximize the therapeutic utility of MSCs in sepsis induced ARDS. University of Toronto Translational Research Competition. $100,000.00 CAD. [Grants]
Invited Lectures and Presentations

International


Local

2015 Jan  **Invited Speaker.** Mesenchymal stromal cell - macrophages interactions in ARDS. Keenan Research Centre for Biomedical Science of St. Michael's Hospital Research Meeting, St. Michael's Hospital. Toronto, Ontario, Canada.
Dr. Claudia Dos Santos (St. Michael’s Hospital)

Peer-Reviewed Publications

Journal Articles


Editorials


Peer-Reviewed Fundings


2014 Jul – 2019 Jun Principal Investigator. Molecular Mechanism(s) of Protection from Acute Lung Injury. Canadian Institutes of Health Research (CIHR). $900,000.00 CAD. [Grants]


2012 Mar – 2017 Apr Principal Investigator. New Investigator Award: Informed discovery of novel targets for therapy. Canadian Institutes of Health Research (CIHR). $562,000.00 CAD. [Grants]

Invited Lectures and Presentations

International

2014 Sept 29  Invited Speaker. ESICM. Mesenchymal Stem Cells in Acute Lung Injury Barcelona, Spain.

Local


Honours and Awards

2014  University of Toronto Fellowship - Laboratory Medicine and Pathobiology SGS.
2014  LMP Scholarship of Excellence - SGS. University of Toronto.
2014  IMS Summer Scholarship. University of Toronto.
2014  Department of Physiology Excellence Award. University of Toronto.
2012 – 2017  New Investigator Award. Canadian Institutes of Health Research.
Dr. Jan Friedrich (St. Michael’s Hospital)

Peer-Reviewed Publications

Journal Articles


Chant C, Dewhurst NF, Friedrich JO. Do we need a pharmacist in the ICU? Intensive Care Med. 2015 Jul 1;41(7):1314-20. Senior Responsible Author.


Friedrich JO, Baker AJ. Optimizing the approach to pain, agitation, and delirium in critical care. Can J Anaesth. 2014 Jul 1;61(7); 605-610. Principal Author.


Abstracts


Editorials


Reviews


Peer-Reviewed Fundings


Invited Lectures and Presentations

International


Provincial


Local


2014 May 7 Invited Speaker. Canadian Association of Critical Care Nurses Toronto Chapter Annual Conference. Acute Renal Failure in Critical Care. Toronto, Ontario, Canada.

2014 May 7 Invited Speaker. Department of Oncology, St. Michael's Hospital. ICU Admission of Critically-Ill Cancer Patients. Toronto, Ontario, Canada.
Honours and Awards

2014 Oct
The 2014 Arthurs - Li Ka Shing Knowledge Institute Research Academy Awards. St. Michael’s Hospital “Most Frequently Cited Article”

2014 Mar – 2017 Feb
Clinician Scientist Award – Phase 2 Renewal. Canadian Institutes for Health Research (CIHR)

2013 Jul – 2014 Jun
Best Teacher, St. Michael's Hospital Site. University of Toronto, Interdepartmental Division of Critical Care.
**Dr. Sara Gray (St. Michael’s Hospital)**

**Peer-Reviewed Publications**

**Journal Articles**

Petrosoniak A, Owen J, **Gray S**. Done a thoracotomy lately? An intensive, simulation-based curriculum to teach rare procedures in emergency medicine. Journal of Graduate Medical Education. 2015 Dec. **Senior Responsible Author.**

Quan G, McGowan M, Lebovic G, **Gray S**. Should Canada implement early warning scores in the ED for septic shock patients? CMAJ Open. 2015 Dec (Trainee publication, PGY-5). **Senior Responsible Author.**

Ly D, Thipphavong S, **Gray S**, Hanbidge A, Atri M, Khalili K. When the appendix is not seen on ultrasound for right lower quadrant pain: does the interpretation of emergency department physicians correlate with diagnostic performance? Ultrasound Quarterly. 2015 Nov. In Press (Trainee publication). **Coauthor or Collaborator.**


Abstracts


Peer-Reviewed Fundings


Invited Lectures and Presentations

International


Provincial


National


Local

2015 Nov 2 **Keynote Speaker.** Optimizing Critical Care resuscitation in your ED. University Health Network EM Conference. Toronto, Ontario, Canada.

2015 May 26 **Speaker.** Developing triage criteria for scarce critical care resources. University of Toronto EM Faculty Research Day. Toronto, Ontario, Canada. Presenter(s): Clare Acton. (Trainee Presentation).


Honours and Awards

2015 May      Outstanding Clinical Teaching Award, Emergency Medicine, Dept of Medicine, Faculty of Medicine, University of Toronto Division of Emergency Medicine. (Postgraduate MD)

2014 Mar      Toronto's Best Doctors. Toronto Life Magazine
Dr. David Hall (St. Michael’s Hospital)

Peer-Reviewed Publications

Journal Article


Invited Lectures and Presentations

Provincial


Local


2015 Jun 19 Invited Speaker. Primary Ciliary Dyskinesia: The Beat Goes On. Division of Respirology, Dept of Medicine, Faculty of Medicine. Toronto.


Dr. Christopher Hayes (St. Michael’s Hospital)

Peer-Reviewed Fundings

2012 Oct – present Principal Investigator. SEARCHED: Sepsis Early Antibiotics and Resuscitation to Control Infected Patients in the Emergency Department. AHSC Alternate Funding Plan Innovation Fund – MOHLTC. $82,455.00 CAD. [Grants]

Peer-Reviewed Publications

Journal Articles


Invited Lectures and Presentations

International


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<tr>
<th>Date</th>
<th>Type</th>
<th>Title</th>
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<tbody>
<tr>
<td>2015 Sep 18</td>
<td>Invited Speaker</td>
<td>Pursuing Triple Aim &amp; Sustaining Adoptable Improvement.</td>
<td>Saguenay, Quebec, Canada.</td>
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<td>Canadian Foundation of Healthcare Improvement.</td>
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<td>Presenter(s): Hayes C, Verma J, de Villa E.</td>
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<td>Canadian Orthopedics Association.</td>
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<td>Health Quality Ontario - IDEAS Program.</td>
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<td>Centre for Quality Improvement and Patient Safety Annual Symposium.</td>
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<td>2015 Sep 29</td>
<td>Invited Speaker</td>
<td>Highly Adoptable Improvement.</td>
<td>Toronto, Ontario, Canada.</td>
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<td>Dept of Gastroenterology, St. Michael's Hospital.</td>
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<tr>
<td>2015 Sep 16</td>
<td>Distinguished Speaker</td>
<td>Achieving Excellence...Sustainably: Lessons from high</td>
<td>Mississauga, Ontario, Canada.</td>
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<td>performing healthcare organizations. Trillium Health Partners.</td>
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<tr>
<td>2015 May 27</td>
<td>Invited Speaker</td>
<td>Using a Quality Lense to Execute Strategy.</td>
<td>Toronto, Ontario, Canada.</td>
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<td>St.Michael's Hospital - Leadership Insights.</td>
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<td>2015 May 22</td>
<td>Keynote Speaker</td>
<td>Highly Adoptable Improvement.</td>
<td>Mississauga, Ontario, Canada.</td>
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<td>Trillium Health Partners.</td>
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<td>2015 May 19</td>
<td>Invited Speaker</td>
<td>Highly Adoptable Improvement.</td>
<td>Toronto, Ontario, Canada.</td>
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<td>Centre for Quality Improvement of Patient Safety (C-QuIPS).</td>
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<td>IHI U of T Open School Chapter.</td>
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<tr>
<td>2015 Feb 18</td>
<td>Invited Speaker</td>
<td>What Is All This Quality Stuff About? St.Michael's Hospital -</td>
<td>Toronto, Ontario, Canada.</td>
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<td>Faculty Development Day.</td>
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<tr>
<td>2015 Feb 11</td>
<td>Invited Speaker</td>
<td>To Study or Improve? That IS the Question.</td>
<td>St.Michael’s Hospital.</td>
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<tr>
<td>2015 Feb 10</td>
<td>Invited Speaker</td>
<td>Engaging Clinicians By Creating Highly Adoptable Improvement.</td>
<td>Toronto, Ontario, Canada.</td>
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<td>Canadian Patient Safety Institute.</td>
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2015 Jan 29  Attendee. Quality of Care Reviews and Disclosures. Toronto, Ontario, Canada.


Honours and Awards

**Dr. Patricia Houston (St. Michael's Hospital)**

Peer-Reviewed Publications

**Journal Articles**


**Invited Lectures and Presentations**

**International**


2015 Mar **Invited Speaker**. How can we teach QI Competencies. Royal Australasian College of Surgeons. Melbourne, Victoria, Australia.


2015 Feb **Invited Speaker**. Perioperative myocardial infarction: which beta-blocker is more protective? Doctors Updates 2015. Val d'Isere, Savoie, France.

2015 Feb **Invited Speaker**. When is blood the right fluid? Doctors Updates 2015. Val d'Isere, Savoie, France.

**Provincial**


2015 Apr **Moderator**. Interprofessional Education. Canadian Conference on Medical Education. Vancouver, British Columbia, Canada.

2015 Apr  **Moderator.** Leadership/Mentorship. Canadian Conference on Medical Education. Vancouver, British Columbia, Canada.

2014 Feb  **Presenter.** Drug Shortages. UBC Whistler Anesthesia Summit. Whistler, British Columbia, Canada. Presenter(s): Houston, PL.

### National


2014 Apr  **Moderator.** Education Innovation - Interprofessional Education. Canadian Conference on Medical Education. Ottawa, Ontario, Canada.

2014 Apr  **Moderator.** Education Innovation - Faculty Development. Canadian Conference on Medical Education. Ottawa, Ontario, Canada.

2014 Feb  **Speaker.** Drug Shortages. CMA Specialist Forum. Ottawa, Ontario, Canada. Presenter(s): Houston, PL.

2014 Feb  **Speaker.** Drug Shortages. ACUDA Management Committee. Ottawa, Ontario, Canada. Presenter(s): Houston, PL.

### Local

2014 Sep  **Invited Speaker.** Canadian Anesthesiologists’ Society Update. 59th Annual Ontario Anesthesia Meeting. Toronto, Ontario, Canada.

2014 Dec 2 **Invited Speaker.** Which is Better: Interprofessional practice in real time or focused continuing professional development to acquire the knowledge and skills of interprofessional practice? University of Toronto. Toronto, Ontario, Canada. Co-Presenter: Russell A.

### Honours and Awards

2014 Jun  Jeffrey Lozon Physician Leadership Award, St Michaels Hospital, Ontario, Canada. (Distinction)
Dr. Mark Kataoka (St. Michael’s Hospital)

Peer-Reviewed Publication

Journal Article

Dr. David Klein (St. Michael’s Hospital)

Peer-Reviewed Publications

Journal Articles


Peer-Reviewed Fundings

2014 Oct - 2015 Sep  **Co-Investigator.** STandard versus initiation of Renal Replacement Therapy in Acute Kidney injury (STARRT-AKI). Canadian Institutes of Health Research (CIHR). Operating Grant, Grant New. PI: Wald, R. Collaborator(s): Ms. Orla Marie SMITH, Dr. Mark Douglas SOTH, Dr. Henry Thomas STELFOX, Dr. Amit GARG, et al. $100,000.00 CAD. [Clinical Trials]

2013 Apr – Present  **Co-Principal Investigator.** A Phase II Randomized Placebo Controlled Trial testing Withania somnifera in Volunteers with Amyotrophic Lateral Sclerosis (NIALS). ALS Canada. PI: Zinman L. $500,000.00 CAD. [Grants]

Invited Lectures and Presentations

**International**


2014 Jun 9  **Invited Speaker.** Spectral Diagnostics Investigator Meeting. MODS score as an enrollment criteria. New York, New York, United States.

2014 Mar 7  **Invited Speaker.** CRRT 2014. CRRT Polymyxin B binding Filter in Sepsis: The EUPHRATES Trial Plenary Lecture; The Burden of Endotoxin in Health and Disease: Where else does it hurt? San Diego, California, United States.

**National**


**Local**

2014 Nov 1  **Invited Speaker.** Canadian Critical Care Foundation - Spectral Diagnostics EUPHRATES Update. Toronto, Ontario, Canada.
Dr. John Laffey (St. Michael’s Hospital)

Peer-Reviewed Publications

Journal Articles

Walshe CM, Laffey JG, Kevin L, O’Toole D. Sepsis protects the myocardium and other organs from subsequent ischaemic/reperfusion injury via a MAPK-dependent mechanism. Intensive Care Med Exp. 2015 Dec. Dec 2015; 3(1);35. Coauthor or Collaborator.


Abstracts


Devaney J, Horie S, Masterson C, O'Toole DP, Laffey JG. Optimal Dose And Mechanism Of Action Of Human Mesenchymal Stromal Cell Therapy In E.coli Induced Pneumonia In The Rat. Am J Respir Crit Care Med. 2014. 189;2014: A340. Senior Responsible Author.
Book Chapters

Contreras M, **Laffey JG**. Is Permissive Hypercapnia helpful or harmful? In: C Deutschman, P Neligan, editor(s). Elsevier; 2015. **Co-Principal Author.**


Neligan P, **Laffey JG**. Obstetric Physiology and Special Considerations in ICU. In: Andrew Webb, Derek Angus, Simon Finfer, Luciano Gattinoni, Mervyn Singer, editor(s). Oxford Textbook of Critical Care. Oxford University Press (Anticipated Publication Spring 2015); 2015. **Senior Responsible Author.**


Contreras M, **Laffey JG**, Kavanagh BP. Mechanical Ventilation, Permissive Hypercapnia. Encyclopedia of Trauma Care. 2014. Springer Companies Inc. Editors: Papadakos P, Gestring M, Lapinsky S. **Coauthor or Collaborator.**

Hassett P, **Laffey JG**, Kavanagh BP. Permissive Hypercapnia. Pediatric Critical Care. 2014. Springer-Verlag. Editor: Rimensberger P. **Coauthor or Collaborator.**

Editorials

Steinberg BE, Goldenberg NM, **Laffey JG**. Extracorporeal membrane oxygenation for blastomycosis-related severe ARDS: a new indication as a rescue therapy? Can J Anaesth. 2015 Jul. 2015 July;62(7):731-5. **Senior Responsible Author.**

Peer-Reviewed Fundings

2014 Oct - 2017 Sep **Co-Applicant (N. Rowan Principal Applicant).** Enhancing the antimicrobial efficacy of mesenchymal stem cells (MSCs) for eliminating sepsis induced acute lung injury (ALI) using a novel combination of immune-stimulants. Health Research Board, Ireland. Project Grant. HRA-POR-2014-644. 288,000.00 EUR. [Grants]

2014 Oct - 2017 Sep **Co-Applicant (A. Nichol Principal Applicant).** STandaRd Issue TrANSfusion versus Fresher red blood cell Use in intenSive carE (TRANSFUSE) – a randomised controlled trial. Health Research Board, Ireland. Project Grant. HRA-2014-DI-589. 750,000.00 EUR. [Grants]

2013 Jul - 2015  **Applicant.** 2013 - 2015 Merit Award. Dept. of Anesthesia, University of Toronto. $40,000.00 CAD. [Grants]

2012 Apr - 2015 Apr  **Principal Applicant.** Investigation of therapeutic potential of Mesenchymal Stem Cells to aid repair following Acute Lung Injury. Health Research Board (HRB) (Ireland). Project Grant. 300,000.00 EUR. [Grants]

2004 May - 2015 Jun  **Mentor and Joint Project Supervisor (with Prof P. McLoughlin).** Investigation of the efficacy of Hypercapnic acidosis on pulmonary sepsis induced ARDS. IRCSET Graduate Studentship Grant - Enterprise Ireland. PI: Nichol, Alistair (Conway Institute, UCD). 18,000.00 EUR. [Grants]

2014 Feb  **Principal Investigator.** Operating Grant Award. Canadian Institutes for Health Research. $750,000.00 CAD. [Grant]

**Invited Lectures and Presentations**

**International**

2014 Oct 3  **Invited Speaker.** Statins for ARDS: where are we now? Medical Grand Rounds, Galway University Hospitals. Galway, Ireland.

2014 Sept 30  **Invited Speaker.** LUNG SAFE Study: Results from the Northern Hemisphere; Drug induced ARDS; Three papers that changed my practice in Drug therapy for ARDS. European Society of Intensive Care Medicine (ESICM) Annual Conference. Barcelona, Spain.

**Provincial**


**National**

2014 Oct 31 – Nov 1  **Invited Speaker.** LUNG SAFE study Results; ARDS…cell therapies. Canadian Critical Care Forum. Toronto, Ontario, Canada.


**Local**
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<th>Event Description</th>
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<tr>
<td>2014 Jun 10</td>
<td><strong>Invited Speaker.</strong> When more CO2 is less and more – a physiologic approach. University of Toronto Interdisciplinary Dept of Critical Care Annual Residents Day. Toronto, Ontario, Canada.</td>
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</table>
Dr. Bernard Lawless (St. Michael’s Hospital)

Peer-Reviewed Publications

Journal Articles


Clinical Care Guidelines


Magazine Entries


Manuals


Peer-Reviewed Fundings


Dr. Warren Lee (St. Michael’s Hospital)

Peer-Reviewed Publications

Journal Articles


Book Chapters


Editorials


Letters to Editor


Peer-Reviewed Fundings

2015 May - present Principal Investigator. Center for advanced dynamic imaging of tissue barriers: cellular processes and molecular interactions. Canadian Foundation for Innovation (CFI). John R. Evans Leaders Fund. Collaborator(s): Kapus, Andras and Szaszi, K. $1,000,000.00 CAD [Grants]

2015 Jun - 2020 Jun Principal Investigator. Molecular characterization of endothelial transcytosis by different tissue beds. NSERC. $150,000.00 CAD. [Grants]

2013 Jun – 2018 Sept Principal Applicant. Influenza and acute lung injury: priming, platelets and permeability. Canadian Institutes of Health Research (CIHR). $480,000.00 CAD. [Grants]


2012 Jul – 2015 Jul  **Co-Investigator.** Endothelial and transendothelial events underlying immune cell infiltration of metabolic tissues in pre-diabetes Canadian Diabetes Association. PI: Klip A. $300,000.00 CAD. [Grants]

2011 Nov – 2016 Apr  **Principal Investigator.** Pathogenesis of severe disease from influenza - role and mechanisms of microvascular leak. Early Research Award, Ministry of Research and Innovation (Ontario) $150,000.00 CAD. [Grants]

### Invited Lectures and Presentations

#### International

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<th>Date</th>
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<tr>
<td>2015 Nov 26</td>
<td><strong>Invited Speaker</strong></td>
<td>Beyond mechanical ventilation - Novel therapeutic approaches for ARDS. Life and Care Symposium, Swiss Paraplegic Centre. Nottwil, Switzerland.</td>
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<tr>
<td>2015 Apr</td>
<td><strong>Presenter</strong></td>
<td>A Tie2 agonist protects mice from lethal influenza infection (Poster). Experimental Biology, International Conference. United States. Trainee presentation - Michael Sugiyama; awarded a Graduate Student Poster Prize.</td>
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#### Provincial

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<tr>
<td>2014 Apr 25</td>
<td><strong>Presenter</strong></td>
<td>LDL crosses the coronary artery endothelium by transcytosis. IRCM, Montreal. Quebec, Canada. Podium presentation by my student Susan Armstrong, awarded Best Abstract. (Trainee Presentation).</td>
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National


2014  Invited Speaker. Around and through - endothelial permeability as a therapeutic target. RGE Murray Seminar Series, University of Western Ontario (Dept of Microbiology and Immunology).

Local


Media Appearances


Dr. John Marshall (St. Michael’s Hospital)

Peer-Reviewed Publications

Journal Articles


Blackwood B, Marshall JC, Rose L. Progress on core outcome sets for critical care research. 2015 Aug 8. **Coauthor or Collaborator.**


Conference Publication


Journal Articles, Multicenter Study, Randomized Controlled Trial


Book Chapters


Peer Reviewed Fundings

2015 Jul - 2016 Jun  Co-Investigator. Bacteremia Antibiotic Length Actually Needed for Clinical Effectiveness (BALANCE): A Randomized Controlled Clinical Trial. Canadian Institutes of Health Research. Operating Grant. PI: Daneman, Nick & Fowler, Robert A. Collaborator(s): Bagshaw, Sean M; Coburn, Bryan A; Cook, Deborah J; Dodek, Peter M; Hall, Richard I; Kumar, Anand; Lamontagne, Francois; Lauzier, Francois; Marshall, John C; Martin, Claudio M; McIntyre, Lauralyn A; Muscedere, John; Reynolds, Steven C; Stelfox, Henry T. $100,000.00 CAD. [Clinical Trials]


2015 Apr - 2016 Mar  Principal Investigator. International Forum for Acute Care Trialists. Canadian Institutes of Health Research (CIHR). Institute of Circulatory and Respiratory Health. $40,000.00 CAD. [Planning Meeting Grant 2015-16]


2014 Oct – 2019 Aug  Co-Investigator. Temperature, Heart and Respiratory Rate Investigation with Variability Evaluation and Serum Biomarkers THRRIVES) to provide early and specific warning of infection. The Ottawa Hospital Academic Medical Organization. PI: Seely A. [Clinical Trials]


2012 – 2014 **Principal Investigator.** Cellular and Molecular Mechanisms of Prolonged Neutrophil-Mediated Inflammation in Trauma and Sepsis: The Role of PBEF/Nampt/Visfatin. The Physicians' Incorporated Foundation. $169,500.00 CAD. [Clinical Trials]


**Invited Lectures and Presentations**

**International**


2015 Apr  **Invited Speaker.** From inflammation to the Multiple Organ Dysfunction Syndrome. 35th Surgical Infection Society Meeting, April 16-18, 2015. Westlake Village, California, United States.


2014 Sep 18  **Invited Speaker.** The PIRO concept; Opportunities for global collaboration in sepsis research. SepsEast; 2nd Central and Eastern European Sepsis Forum. Budapest, Hungary.

2014 Aug 15  **Invited Speaker.** What is evidence-based medicine?; When are randomized clinical trials unnecessary? 3rd Neurocritical Care Research Conference. Houston, Texas, United States.

2014 May 15-17  **Invited Speaker.** Sepsis 2014; Source control in complex infections; Scores: What is new? 12 Simposio Internacionale de Emergencias Médicas y Paciente Crítico. Santiago, Chile.

2014 May 14  **Invited Speaker.** International Forum for Acute Care Trialists (InFACT) - Collaborative global acute care research. Latinoamerican Clinical Trial Investigative Network (LACTIN) 2nd Annual Meeting. Casa Blanca, Chile.

2014 May 1-3 **Invited Speaker.** The multiple organ dysfunction syndrome. Surgical Infection Society 34th Annual Meeting. Baltimore, Maryland, United States.

2014 Apr 21 **Invited Speaker.** InFACT: Global collaboration in acute care research; Management of severe acute pancreatitis. Xiangya School of Medicine. Changsha, China.


2014 Mar 18-21 **Invited Speaker.** Pandemics: How should the critical care community respond?; Apoptosis as a mechanism of critical illness; Big international research consortia; PBEF/Nampt/Visfatin; Core outcome measures for critical care research; The microbial flora of critical illness: What does it tell us?; Abdominal trauma; Acute pancreatitis: Principles of management. 34th International Symposium of Intensive Care and Emergency Medicine. Brussels, Belgium.


2014 Jan 13-14 **Invited Speaker.** Sepsis: A history of the concept; Compartmentalization of inflammation. San Francisco, California, United States.


**Provincial**


2014 Jun 16 **Invited Speaker.** Building a career in academic medicine. Canadian Critical Care Trials Group Residents’ Research Day. Montreal, Quebec, Canada.
Local


Honours and Awards

2014  Academia Colombiana de Medicine Crítica. Honorary Member.
**Peer-Reviewed Publications**

**Journal Articles**


Deb S, Austin PC, Tu JV, Ko DT, **Mazer CD**, Kiss A, Friesme SE. A review of propensity score methods and their use in cardiovascular research. Cdn J of Cardiology. 2015. In Press. **Coauthor or Collaborator.**

Kim N, Dai SY, Pang V, **Mazer CD**. Vasopressinase activity: a potential early biomarker for detecting cardiopulmonary bypass-associated acute injury? Thoracic and Cardiovascular Surgeon. 2015. In Press. **Senior Responsible Author.**

Ha A, Verma S, **Mazer CD**, Yanagawa B, Verma A. A clinician guide to perioperative atrial fibrillation. Circulation. 2015. **Coauthor or Collaborator.**


**Book Chapters**

McAuliffe NA, Hanumanthaiah D, **Mazer CD.** Pharmacologic prophylaxis for post-cardiopulmonary bypass bleeding. In: G. Gravlee, editor(s). Cardiopulmonary Bypass and Mechanical Circulator Support. 4e. (India); 2015. In Press. **Senior Responsible Author.**

**Peer-Reviewed Fundings**

2015 Jan - 2018 Dec **Co-Principal Investigator.** Transfusion Triggers in Cardiac Surgery Australia Trial (TRICS III). NHMRC (National Health and Medical Research Council of Australia). PI: Royce, A. Collaborator(s): Scott D, Fraser J, Shehata N. 1,379,436.00 AUD. [Clinical Trials]

Collaborator. Left Atrial Appendage occlusion Study III (LAAOS III). Canadian Institutes of Health Research (CIHR). PI: Dr Richard Whitlock. $70,000.00 CAD. [Clinical Trials]

Co-Investigator. STandard versus Accelerated initiation of Renal Replacement therapy in Acute Kidney Injury (STARRT-AKI). CIHR Operating Grant. PI: Wald, Ron. $1,177,472.00 CAD. [Clinical Trials]

Co-Investigator. STandard vs Accelerated initiation of Renal Replacement therapy in Acute Kidney Injury (STARRT-AKI). Canadian Institutes of Health Research (CIHR) and Industry Partnered. $220,996.00 CAD. [Grants]

Principal Investigator. Transfusion requirement in cardiac surgery III (TRICS III). Canadian Institutes of Health Research (CIHR). $3,323,110.00 CAD. [Grants]

Principal Investigator. Reducing adverse outcomes in cardiac surgery related to tissue hypoxia. Department of Anesthesia Merit Award Research Competition University of Toronto. $80,000.00 CAD. [Grants]


Co-Investigator. Transfusion requirements in cardiac surgery (TRICS II). Canadian Institutes of Health Research (CIHR). $444,165.00 CAD. [Grants]

Invited Lectures and Presentations

International


2014 Nov  **Invited Speaker.** TRICS III Prospective Randomized Controlled Trial of a Restrictive or Liberal Blood Transfusion Protocol. Australian and New Zealand Society of Cardiac and Thoracic Surgeons (ANZSCTS). New Zealand.

2014 Oct 11-15  **Invited Speaker.** What are the alternatives to FFP?; Update on strategies for blood conservation and hemostasis in cardiac surgery; Factor Concentrates – what is their place in perioperative bleeding?; SCA and Society of Thoracic Surgeons Collaborative Guidelines. ASA Annual meeting. Louisiana, New Orleans, United States.

2014 Sept 17  **Invited Speaker.** Haemostasis and major bleeding in cardiac surgery. International Congress on Cardiovascular Anesthesia (ICCVA) and European Association of Cardiothoracic Anesthesiologists (EACTA) meeting. Florence, Italy.

2014 May 1  **Invited Speaker.** Transfusion in cardiac surgery. Prince Charles Hospital. Brisbane, Queensland, Australia.

2014 Apr 30  **Invited Speaker.** Transfusion in cardiac surgery. Royal North Shore Hospital. Sydney, New South Wales, Australia.

2014 Apr 28  **Invited Speaker.** Transfusion in cardiac surgery. University of Melbourne, Royal Melbourne Hospital. Melbourne, Victoria, Australia.

2014 Mar 30 – Apr 1  **Invited Speaker.** What transfusion trigger is indicated?; The role of fibrinogen in reducing transfusion. SCA Annual meeting. New Orleans, Louisiana, United States.

2014 Mar 30  **Moderator.** Transfusion medicine: Time for a shift. SCA Annual meeting. New Orleans, Louisiana, United States.

2014 Mar 27  **Invited Speaker.** Transfusion requirements in cardiac surgery. Steroids in cardiac surgery (SIRS) study Investigators’ meeting. Washington, United States.
Provincial


2014 Feb 11  Invited Speaker. Transfusion and blood conservation in cardiac surgery. Laval University, Institut Universitaire de Cardiologie et de Pneumologie de Québec. Montreal, Quebec, Canada.

National


2015 Jan 21  Invited Lecturer. Transfusion Requirements in Cardiac Surgery (TRICS-III). Department of Anesthesia, Queens University. Kingston, Ontario, Canada.


Local


Dr. Antoine Pronovost (St. Michael’s Hospital)

Invited Lectures and Presentations

Local


Peer-Reviewed Publications

Journal Article


Peer-Reviewed Fundings

2012 - present  Co-Investigator. Observational Study of Cerebral Tissue Oxygen Saturation During Blood Transfusion in Severe Traumatic Brain Injured Patients. Physicians Services Incorporated Foundation (The) (PSI). $40,000.00 CAD. [Grants]

2010 – present  Co-Investigator, Site Principal Investigator. Early determination of neurological prognosis in ICU patients with severe traumatic brain injury: TBI Prognosis Pilot Study. Canadian Institutes of Health Research (CIHR). $1,400,000 CAD. [Grants]

Invited Lectures and Presentations

International


National


Local

**Dr. Sandro Rizoli (St. Michael’s Hospital)**

**Peer-Reviewed Publications**

**Journals**

Zakrison TL; Rosenbloom B; McFarlan A; Jovicic A; Soklaridis S; Allen C; Schulman C; Namias N; **Rizoli S**. Lost information during the handover of critically injured trauma patients: a mixed-methods study. BMJ Qual Saf. 2015 Nov 6; **Senior Responsible Author**.

Byrne JP; Xiong W; Gomez D; Mason S; Karanicolas P; **Rizoli S**; Tien H; Nathens AB. Redefining “dead on arrival”: Identifying the unsalvageable patient for the purpose of performance improvement. J Trauma Acute Care Surg. 2015 Nov;79(5):850-7. **Co-Principal Author**.

Rezende-Neto JB; Angarita FA; **Rizoli SB**; Rotstein OD. Modified triple-layer peritoneal-aponeurotic transposition: A new strategy to close the “open abdomen”. J Trauma Acute Care Surg. 2015 Oct;79(4):694-7. **Co-Principal Author**.

Peng HT; Grodecki R; **Rizoli S**; Shek PN. A comparative study of tissue factor and kaolin on blood coagulation assays using rotational thromboelastometry and thromboelastography. Blood Coagul Fibrinolysis. 2015 Sep;Epub ahead of print. **Co-Principal Author**.

Coccolini F; Montori G; Catena F; Di Saverio S; Biffl W; Moore EE; Peitzman AB; **Rizoli S**; Tugnoli G; Sartelli M; Manfredi R; Ansaloni L. Liver trauma: WSES position paper. World J Emerg Surg. 2015 Aug 25;10(39). **Co-Principal Author**.

Delano MJ; **Rizoli SB**; Rhind SG; Cuschieri J; Junger W; Baker AJ; Dubick MA; Hoyt DB; Bulger EM. Pre-Hospital Resuscitation of Traumatic Hemorrhagic Shock with Hypertonic Solutions Worsen Hypo-Coagulation and Hyper-Fibrinolysis. Shock. 2015 Jul;44(1):25-31. **Co-Principal Author**.

Novak DJ; Bai Y; Cooke RK; Marques MB; Fontaine MJ; Gottschall JL; Carey PM; Scanlan RM; Fiebig EW; Shulman IA; Nelson JM; Flax S; Duncan V; Daniel-Johnson JA; Callum J; Holcomb JB; Fox EE; Baraniuk S; Tilley BC; Schreiber MA; Inaba K; **Rizoli S**; Podbielski J; Cotton BA; Hess JR on behalf PROPPR Study Group. Making thawed universal donor plasma available rapidly for massively bleeding trauma patients: the experience of the PROPPR trial centers. 55. 2015 Jun 30;6(1331-9). **Co-Principal Author**.

Inaba K; **Rizoli S**; Veigas PV; Callum J; Davenport R; Hess J; Maegele M and the Viscoelastic Testing in Trauma Consensus Panel. Consensus conference on viscoelastic test-based transfusion guidelines for early trauma resuscitation: report of the panel. Journal of Trauma and Acute Care Surgery. 2015 Jun;78(6):1220-1229. **Co-Principal Author**.

Di Battista AP; Buonora JE; Rhind SG; Hutchison MG; Baker AJ; **Rizoli SB**; Diaz-Arrastia R; Mueller GP. Blood Biomarkers in Moderate-To-Severe Traumatic Injury: Potential Utility of a Multi-Marker Approach in Characterizing Outcome. Front Neurol. 2015 May;6:110. **Co-Principal Author**.
Idris AH; Guffey D; Pepe PE; Brown SP; Brooks SC; Callaway CW; Christenson J; Davis DP; Daya MR; Gray R; Kudenchuk PJ; Larsen J; Lin S; Menegazzi JJ; Sheehan K; Sopko G; Stiell I; Nichol G; Auferheide TP; Resuscitation Outcomes Consortium Investigators. Chest compression rates and survival following out-of-hospital cardiac arrest. Crit Care Med. 2015 Apr;43(4):840-8.


Toor GK; Harris JE; Escobar M; Yoshida K; Velikonja D; Rizoli S; Cusimano M; Cullen N; Sokoloff S; Colantonio A. Long-term health service outcomes among women with traumatic brain injury. Arch Phys Med Rehabil. 2015 Feb 20;Epub ahead of print. Co-Principal Author.


Byrne JP; Mann NC; Hoeft CJ; Buick J; Karanicolas P; Rizoli S; Hunt JP; Nathens AB. When speed is not a virtue: the impact of short pre-hospital times on trauma center performance benchmarking. Journal of Trauma and Acute Care Surgery. 2015. Co-Principal Author.

Rizoli S; Peterson A; Bulger E; Coimbra R; Jeffrey K; Minej J; Morrison L; Nathens A; de Oliveira Manoel AL; Schreiber M. Early prediction of outcome after severe traumatic brain injury: a simple and practical model. Critical Care. 2015. Principal Author.

Di Battista AP; Rhind SG; Hassan S; Shiu MY; Hutchison MG; Baker AJ; Inaba K; Topolevic-Vranic J; Capone Neto A; Rizoli S. Inflammatory Cytokine - Chemokine Profiles are Associated with the Hyperadrenergic State and Patient Outcome After Moderate-to-Severe Traumatic Brain Injury. Journal of Neuroinflammation. 2015.


de Oliveira Manoel AL; Neto AC; Veigas PV; Rizoli S. Traumatic Brain Injury Associated Coagulopathy. Neurocritical Care. 2014 July. Senior Responsible Author.

Ackery A; Rizoli S. Tranexamic acid for trauma-related hemorrhage. CMAJ. 2014 Jul. Senior Responsible Author.


Rizoli S, Min A, Sanchez AP, Shek P, Grodecki R, Veigas P, Peng H. In trauma, conventional ROTEM® and TEG® results are not interchangeable but are similar in clinical applicability. Journal of Military Medicine. 2014. Principal Author.


Book Chapter


Newspaper Article


Peer Reviewed Fundings

2015 - 2016 Principal Investigator. Using rotational thromboelastometry and simplified guidelines to reduce inappropriate transfusion of blood and blood products to trauma patients at St. Michael’s Hospital. St. Michael’s Hospital. AFP Innovation Funds. $29,200.00 CAD. [Clinical Trials]


2012 – 2016 Principal Site Investigator. Prospective randomized optimal platelet and plasma ratio trial. CIHR and Defense Research and Development Canada. Co-PI: Holcomb, J. [Clinical Trials]
2009 Sept – present  **Co-Investigator.** Age of blood evaluation (ABLE) trial in the resuscitation of critically ill patients. Canadian Institutes of Health Research (CIHR). PI: Lacroix, J. Collaborators: Callum J, Fowler R. [Clinical Trials]


**Invited Lectures and Presentations**

**International**

2015 Nov 14 **Lecturer.** (1) North vs. South debate. (2) How to resuscitate injured patients taking the novel oral anticoagulants. (3) Blood transfusions should be tailored to the patient infront of you. XXVIII Panamerican Clinical Congress of Trauma. Santa Cruz, Bolivia, Plurinational State Of.

2015 Aug 1 **Lecturer.** Focus intra-operative bleeding: pitfalls. II International Symposium on the Care for the Injured Patient. Sao Paulo, Brazil.

2015 Aug 1 **Lecturer.** Coagulopathy prevention: how to achieve it? II International Symposium on the Care for the Injured Patient. Sao Paulo, Brazil.

2015 Jun 28 **Presenter.** Characterization of Peripheral Blood Endothelial Activation-Damage Markers in Moderate-to-Severe TBI Patients - Relationship to Systemic Catecholamines and Outcome. National Neurotrauma 2015 Symposium. Santa Fe, New Mexico, United States. Presenter(s): Di Battista AP; Rhind SG; Hutchison MG; Baker AJ; Shiu MY; Capone-Neto A; Rizoli SB.

2015 Jun 28 **Presenter.** Alterations of circulating chemokines in relation to neurological outcome after moderate-to-severe traumatic brain injury. National Neurotrauma 2015 Symposium. Santa Fe, New Mexico, United States. Presenter(s): Di Battista AP; Rhind SG; Hutchison MG; Baker AJ; Shiu MY; Capone-Neto A; Rizoli SB.

2015 Apr 24 **Speaker.** II Reuniao Ibero-Afro-Americana de Trauma e Cirurgia de Trauma e Cirurgia de Emergencia. Campinas, Brazil.
2015 Mar 28  **Video Presentation.** Resuscitaceo em trauma - coagulopatia. IX Congresso de Trauma e Emergencia LATE - UFRJ. Rio de Janeiro, Brazil.


2015 Mar 2 Circulating Vascular Adhesion Protein-1 and Syndecan-1 are elevated after TBI in relation to sympathetic hyperactivity. 11th World Congress on Brain Injury. The Hague, Netherlands. Presenter(s): Di Battista AP; Rhind SG; Shiu MY; Baker AJ; Hutchison MG; Rizoli S.

2014 Nov 10 **Speaker.** Trauma Quality Improvement Program (TQIP) 2014. Annual Scientific Meeting and Trauma. Venous thromboembolism prophylaxis in trauma: How are we doing?; Damage control resuscitation: theory vs reality. Illinois, Chicago, United States. Presenters: Rezende Neto J; Belmon C; Canestrini S; McFarlan A; Ahmed N; Rizoli S.

2014 Nov **Chair.** Conference on thromboelastometry-based transfusion guidelines for early trauma resuscitation. Pennsylvania, United States.


2014 June 27 **Presenter.** PanAmerican Trauma Society International Trauma Tele Grand Rounds. Crush extremity - Case presentation.

2014 May 24 **Chair.** 15th European Congress of Trauma & Emergency Surgery and 2nd World Trauma Congress. Diagnosing coagulopathy immediately after trauma; Advances in diagnosis and treatment of early trauma coagulopathy Prehospital trauma care Frankfurt, Germany.

2014 May 9 **Presenter.** PanAmerican Trauma Society International Trauma Tele Grand Rounds. Blunt cardiac injury - case presentation.

2014 Apr 26 **Lecturer.** 8th CIRURGIAO - Update in General Surgery, Emergency and Trauma of the Faculty of Medicine of the University of Sao Paulo (FMUSP). What every surgeon should know about compartment syndrome; The best timing to abbreviate the operation in damage control; The management of the trauma patient with massive bleeding. Sao Paulo, Brazil.

2014 Apr 23 **Lecturer.** XVI Trauma Course and Pre-Congress Brazilian Trauma Leagues (Pre-COLT) 2014. The team work in the trauma room. Campinas, Brazil.

2014 Apr 22 **Lecturer.** School of Medicine of Ribeirao Preto Symposium. Coagulopathy in trauma. Preto, Ribeirao, Brazil.
2014 Mar 28  **Lecturer.** International Course Advanced Medical Response in Disasters via teleconference. Crush injuries.

**Provincial**

2015 Sep 19  **Chair & Judge.** Resident and Fellows Paper Competition of the Trauma Association of Canada and Committee on Trauma of the American College of Surgeon at the Canadian Surgery Forum. Quebec City, Quebec, Canada.

2015 Sep 18  **Attendee.** Canadian Surgery Form. Quebec City, Quebec, Canada.

2014 Apr 9  **Chair.** Annual Scientific Meeting of the Trauma Association of Canada. Session Open Paper Presentations Stream 2A; Pressidential Address; Montreal, Quebec, Canada.


2014 Apr  **Presenter.** Trauma Association of Canada Annual Scientific Meeting. Assessing the time to CT scan and outcomes in moderate to severe traumatic brain injury. Presenters: Sobrian-Couroux S, McFarlan A. Montreal, Quebec, Canada.

2014 Apr  **Presenter.** Trauma Association of Canada Annual Scientific Meeting. Exception of written consent for emergency research: the views and values of Canadians. Presenters: Perez A, Trpcic S, Nascimento B. Montreal, Quebec, Canada.


2014 Apr  
**Presenter.** Trauma Association of Canada Annual Scientific Meeting. Isolated Vena Cava Injuries from Blunt Trauma: A Diagnostic Dilemma with Life-Threatening Hemorrhage – Poster. Presenters: Kim M, Rezende-Neto JB. Montreal, Quebec, Canada.

2014 Apr  
**Presenter.** Trauma Association of Canada Annual Scientific Meeting. The road to trauma distinction: a partnership between Accreditation Canada and the Trauma Association of Canada to design an accreditation program – Poster. Presenters: Taulu T, Sarakbi D, Phillips L, Tallon J, Poirier P, Simons R, Rizoli S, Brenneman F, MacDonald B. Montreal, Quebec, Canada.

2014 Feb 19  
**Lecturer.** Trauma Symposium, University of British Columbia. Pre-hospital trauma resuscitation; Coagulation and trauma. British Columbia, Vancouver, Canada.

**National**

2014 June 3  

**Local**

2015 Oct 26  
**Lecturer.** Red Cell Transfusion - Lessons learned from trauma. Critical Care Canada Forum. Toronto, Ontario, Canada.

2015 Oct 9  
**Lecturer/Speaker via Teleconference.** Ballooning or Bruised: A Case of Blunt Cardiac Trauma. Internal Trauma Tele-Grand Rounds. Toronto, Ontario, Canada.

2014 Oct 29  
**Lecturer.** Critical Care Canada Forum. TBI - cathecolamines and outcome; Massive transfusion - the knowledge vs practice gap. Toronto, Ontario, Canada.

2015 Aug 12  
**Lecturer.** Damage control surgery and resuscitation. St. Michael’s Hospital Trauma Rounds. Toronto, Ontario, Canada.

2014 Jul 29  

2014 Jul 15  
**Lecturer.** St. Michael’s Hospital 6th Breakfast of Champions. Trauma is a team sport. Toronto, Ontario, Canada.

2014 Jun 06  **Lecturer.** University of Toronto Visiting Professor in Trauma Research Symposium. Toronto, Ontario, Canada.

2014 May 12  **Chair.** Canadian Severe Bleeding Management Meeting. Neurosurgery and drug-induced intracerebral hemorrhage; North America perspectives. Toronto, Ontario, Canada.

2014 May 7  **Lecturer.** Evolutions in Critical Care 2014. Abdominal hypertension and compartment syndrome. Toronto, Ontario, Canada.

2014 Mar 17  **Expert discussant.** Evidence Based Reviews in Surgery - Journal Club, University of Toronto, Toronto, Ontario, Canada.

2014 Feb 28  **Lecturer.** The Common, the Rare and the Deadly Trauma Conference. Opening remarks. Toronto, Ontario, Canada.

**Honours and Awards**

2014  Director Trauma and Acute Care. University of Toronto

2014  Honorary Member. Paraguayan Society of Trauma. Distinction
Dr. Christer Sinderby (St. Michael’s Hospital)

Peer Reviewed Funding
2007 – present  Principal Investigator. Maquet Critical Care and St. Michael’s Hospital. [Contracts]

Invited Lectures and Presentations

International
2014 July 15  Invited Speaker. Japan Society of Respiratory Care Medicine. The Developmental Story of NAVA. Akita, Japan

Provincial

Local
Dr. Arthur Slutsky (St. Michael’s Hospital)

Peer-Reviewed Publications

Journals


Goligher EC, Villar J, Slutsky AS. Positive end-expiratory pressure in acute respiratory distress syndrome: when should we turn up the pressure? Crit Care Med. 2014 Feb 1: 42(2):448-50. **Senior Responsible Author.**


**Book Chapters**


**Letters to Editor**


**Peer Reviewed Fundings**

2015 – 2019 **Principal Investigator.** Mechanisms and Therapies of ARDS. Slutsky AS, Zhang H: Canadian Institutes of Health Research - Foundation Scheme. $2,588,884.00 CAD. [Grants]

2014 Nov – 2019 Oct **Principal Investigator.** CIHR Health Researcher of the Year Prize Grant. Canadian Institutes of Health Research (CIHR). $500,000.00 CAD. [Grants]

2013 – 2016 **Principal Investigator.** Mechanisms of ventilator-induced lung injury and remodeling. Slutsky AS, Zhong N, Zhang H: CIHR ($225,000.00); National Natural Science Foundation of China. ($163,800.00). $338,800.00 CAD [Grants]
2010 – 2016  **Co-Investigator.** From Bench to Bedside to Curbside. Clinical Research Consortium to Improve Resuscitation Outcomes. National Institutes of Health (NIH). PI: Morrison LJ. Collaborator(s): Dorian P. $600,000.00 CAD. [Grants]

2010 – 2016  **Co-Investigator** Resuscitation Outcomes Consortium Core Training Grant: NIH ($1,009,800.00), Heart & Stroke Foundation of Canada ($1,500,000.00), and Canadian Institutes of Health Research ($1,000,000.00). Collaborator(s): Morrison LJ, Nathens A, Cheskes S, Slutsky AS, Dorian P: National Institutes of Health and funding partners. $3,509,800.00 CAD. [Grants]

2010 – 2016  **Co-Investigator.** From Bench to Bedside to Curbside. Clinical Research Consortium to Improve Resuscitation Outcomes. Canadian Institutes of Health Research (CIHR). PI: Morrison LJ. Collaborator(s): Dorian P. $1,000,000.00 CAD. [Grants]

2010 – 2015  **Co-Investigator.** National Institutes of Health (NIH). PI: Morrison LJ. Collaborator(s): Nathens A, Cheskes S, Dorian P. $1,009,800.00 CAD. [Grants]

2010 – 2016  **Co-Investigator.** Heart and Stroke Foundation of Canada (HSFC) PI: Morrison LJ. Collaborator(s): Nathens A, Cheskes S, Dorian P. $1,500,000.00 CAD. [Grants]

2010 – 2016  **Co-Investigator.** Canadian Institutes of Health Research (CIHR) PI: Morrison LJ. Collaborator(s): Nathens A, Cheskes S, Dorian P. $1,500,000.00 CAD. [Grants]

2010 – 2016  **Co-Investigator.** From Bench to Bedside to Curbside. Clinical Research Consortium to Improve Resuscitation Outcomes. Heart and Stroke Foundation of Canada (HSFC) PI: Morrison LJ. Collaborator(s): Dorian P. $1,500,000.00 CAD [Grants]

2010 – 2015  **Principal Investigator.** Mechanisms of ventilator-induced pulmonary fibrosis and its therapy. Canadian Institutes of Health Research (CIHR) $808,658.00 CAD. [Grants]

**Invited Lectures and Presentations**

**International**

2015 Oct 3-7  **Invited Speaker.** European Society of Intensive Care Medicine (ESICM). O Keynote Address: Lung protection during mechanical ventilation: A 500 year journey; Hot topics in ARDS (Chair); VILI driving pressure and survival. Berlin, Germany

2015 May 26-29  **Invited Speaker.** Simposio Mostra Anestesia Rianimazione e Terapia Intesiva (SMART). Spontaneous breathing: The ultimate lung protection (Chair); Driving pressure: the magic number? Lung protective ventilation (Chair). Milan, Italy


2015 Apr 17-18  **Invited Speaker.** 16th International Conference on Mechanical Ventilation, Co-Director of Conference; Three papers published in the last two years that might change your practice; Driving Pressure: What is it and why might it be important. Madrid, Spain


2014 Mar 17-19  **Invited Speaker.** European Society of Intensive Care Medicine (ESICM) Mechanical Ventilation Course. Ventilator induced lung injury; Managing severe hypoxemic respiratory failure; HFO worthwhile; Higher PEEP and lower tidal volume?; So, is there still a place for high-frequency ventilation?; Have we made progress in ARDS?; Organ donation - Increasing the number of lungs for transplantation; Biomarkers in ARDS; The role of data safety and monitoring boards. Brussels, Belgium.
2014 Jan 6-9  **Invited Speaker.** Guangzhou Medical College. Lung protection for non ARDS patient. Guangzhou, China

2014 Jan 16-19  **Invited Speaker.** UK Intensive Care Society Annual Meeting. Making sense of recent ventilation studies; Understanding the basics: Ventilation; David Bennett Session. London, United Kingdom.

**Honours and Awards**

2015  Inaugural Presidential Plenary Lecturer, the 110th Annual Thoracic Society (ATS) International Conference Lecture: "Evolution and Development of Mechanical Ventilation". Denver, Colorado, USA.

2015  Elected to the Fellowship of the Royal Society of Canada in the Life Sciences Division of the Academy of Science.

2014  Canada's Health Researcher of the Year. Canadian Institutes of Health Research

2014  David Bennett Lectureship. UK Intensive Care Society.

2014  Margaret Turner Warwick Lecture. Imperial College London

2014  Engineering Alumni Medal. University of Toronto

2014  Honorary Member. European Society of Intensive Care Medicine (only given to 5 non-Europeans since its inception)
Dr. Natalie Wong (St. Michael’s Hospital)

Peer Reviewed Funding

2014 - present  Principal Investigator. Simulation Training of Cardiac Arrest Team for In-Patient Cardiac Arrests. Association of Fundraising Professionals (AFP). AFP grant. Collaborator(s): ER & Anesthesia Departments, St. Michael's Hospital. $91,000.00 CAD. [Grants]

Non-Peer-Reviewed Fundings

2013 May - present  Principal Investigator. Improved Care for In-Hospital Cardiac Arrest (IHCA). SMH MRP. $15,908.00 CAD. [Grants]

2005 Jul - present  Principal Investigator. Observational Study of residents performance during simulated cardiac arrests. ZOLL Medical Corporation. Collaborator(s): Paul Dorian. [Industrial Grants]

Honours and Awards

2015  Outstanding Teaching Award, General Internal Medicine, Dept of Medicine, Faculty of Medicine. (Postgraduate MD, Core Program)
Peer-Reviewed Publications

Journal Articles


**Peer-Reviewed Fundings**

2015 Jul - 2023 Jun Co-Investigator. Mechanisms and therapies of ARDS. Canadian Institutes of Health Research (CIHR). Foundation Scheme. $2,588,883.00 CAD. [Grants]


2010 Apr - 2015 Mar  **Principal Investigator.** Mechanisms of ventilator-induced pulmonary fibrosis and its therapy. Canadian Institutes of Health Research (CIHR). CIHR Operating Grant. $798,747.00 CAD. [Grants]

**Non-Peer-Reviewed Fundings**

2014 Oct - 2019 Sep  **Co-Principal Investigator.** Mechanisms of alveolar-capillary barrier injury and repair in acute injury: biophysical, biochemical and biological approaches of intervention. NSF operating grant. 600,000.00 CNY. [Grants]

2013 Sep - 2017 Aug  Targeting the signaling of human neutrophil peptides in lung injury. NSF Operating Grant. $145,000.00 CAD. [Grants]

2013 Jan - 2015 Dec  **Principal Investigator.** Mechanisms of acute lung injury. Oversea Scholarship Province of Guangdong, China. $508,475.00 CAD. [Grants]

**Invited Lectures and Presentations**

**International**


**Dr. Gail Annich (Hospital for Sick Children)**

Peer-Reviewed Publications

**Journal Articles**


Kawai, Yu MD; Cornell, Timothy T. MD; Cooley, Elaine G. BSN, LRT; Beckman, Craig N. BSN; Baldridge, Paula K. MSN; Mottes, Theresa A. RN; Luckritz, Kera E. DO, MPH; Plomaritas, Kathryn S. BSN; Meade, J. Michael BSN; Odetola, Folafoluwa O. MD, MPH; Han, Yong Y. MD; Blatt, Neal B. MD, PhD; Annich, Gail M. MD, MS, FRCP(C). Therapeutic Plasma Exchange May Improve Hemodynamics and Organ Failure Among Children With Sepsis-Induced Multiple Organ Dysfunction Syndrome Receiving Extracorporeal Life Support. Paediatric Critical Care Medicine. 2015 Jan 20. **Senior Author.**


Book Chapters


Peer-Reviewed Funding


2011 Sep - 2014 Aug Principal Investigator. Development of Nonthrombogenic and Biofilm Resistant Catheters for use in Newborns. NIH/FDA. REVISED. $450,000.00 USD. [Grants]

Invited Lectures and Presentations

International

2015 Sep 18  Invited Speaker. Can we have a quality program with less than 10 patients a year? Pro/Con. ELSO. Atlanta, Georgia, United States. Pre-Conference Symposium. (Continuing Education).

2015 Sep 18  Moderator. ELSO. Atlanta, Georgia, United States. Presenter(s): with Co-Moderator: Dr Melaika Mendonca. (Continuing Education).


2015 Jul 19  Invited Speaker. Managing bleeding and thrombosis in ECMO. Asia Pacific ELSO. Kyôto [Kyoto], Japan. (Continuing Education).

2015 Jul 19  Moderator. Coagulation and Transfusion. Asia Pacific ELSO. Kyôto [Kyoto], Japan. Presenter(s): Co-moderator: Dr Satoshi Nakagawa (Japan).

2015 Jun 7   Speaker. ELSO - South and West Asia Chapter. India. Webinar. ECMO Training Program. (Continuing Education).


2015 Apr     Invited Speaker. Longitudinal Assessment of Trainees’ Pediatric Code Resuscitation Through Simulation. Pediatric Academic Societies. San Diego, California, United States. Presenter(s): Ostwani W.


2014 Sep 18  Moderator. Pediatric/ Adult Case presentations. ELSO Congress. Ann Arbor, Michigan, United States.

2014 Sep 16  Invited Speaker. 87 Days on ECMO. ELSO Preconference. Ann Arbor, Michigan, United States.


2014 Jan

**Invited Speaker.** ECMO in Septic Shock; Principles and Practical Points of Anticoagulation; Development of the Nonthrombogenic Surface. Samsung Medical Center Mechanical Life Support Symposium 2014. Seoul, South Korea.

**Provincial**

2014 May


**Local**

2015 Nov 27

**Chair of program and lecturer.** Resuscitation Week: Does a Code Blue Program affect patient outcome? Resuscitation Advisory Group, The Hospital for Sick Children. Toronto, Ontario, Canada. (Continuing Education).

2015 Jun 6


2014 Oct 29

**Moderator.** Cardiac Arrest: Prevention, Detection and Management. Critical Care Forum Canada and The Hospital for Sick Children. Toronto, Ontario, Canada. Presenters: Parshuram C, DeCaen A.
**Dr. Corrine Balit (Hospital for Sick Children)**

**Peer-Reviewed Publications**

**Journal Articles**


**Invited Lectures and Presentations**

**International**

2014 May 1  
**Invited Lecturer.** Neurological Emergencies. Critical Care Medicine. Paediatric BASIC Provider Course and Conference. Tel-Aviv, Israel.

2014 May 1  
**Facilitator.** Skills Station: Vascular Access. Critical Care Medicine. Paediatric BASIC Provider Course and Conference. Tel-Aviv, Israel.

2014 May 1  
**Facilitator.** Skills Station: Arterial Blood Gas. Critical Care Medicine. Paediatric BASIC Provider Course and Conference. Tel-Aviv, Israel.

2014 Apr 30  
**Invited Lecturer.** Basic Hemodynamic Monitoring. Critical Care Medicine. Israel Paediatric BASIC Provider Course and Conference. Tel-Aviv, Israel.

**Local**

2015 Dec 2  
**Invited Lecturer.** Shock States, Etiologies and Management: Goal-directed therapy. Cardiac Education Days, CCCU, The Hospital for Sick Children. Toronto, Ontario, Canada. (Continuing Education).

2015 Nov 18  
**Invited Lecturer.** Vasoactive Drugs: Practiced Review with Clinical Cases. Cardiac Education Days, CCCU, The Hospital for Sick Children. Toronto, Ontario, Canada. (Continuing Education).

2015 Nov 11  

2015 Oct 7  
**Invited Lecturer.** Analgesic and Sedative Withdrawal: A Side Effect of Critical Care. Department of Paediatrics, Children’s Hospital, London Health Sciences Centre. Toronto, Ontario, Canada.

2014 Nov 5  **Invited Lecturer.** Shock States and Etiologies and Management: Goal-directed therapy. Interprofessional Cardiology Course. The Hospital for Sick Children. Toronto, Canada.


Dr. Peter Cox (Hospital for Sick Children)

Peer-reviewed Publications

Journal Articles


Invited Lectures and Presentations

International


April 2014  Invited Speaker. World Federation of Paediatric Intensive Care Societies. Turkey, Instanbul.

National


Local


2014 Feb  Invited Speaker. Didactic & Simulation Session. Credit Valley Hospital, Mississauga, Ontario, Canada.


Honours and Awards

Peer-reviewed Publications

Journal Articles


Schwartz S, Floh AA. Is glucose metabolism important for patients on extracorporeal membrane oxygenation? Pediatric Critical Care Medicine. Senior Responsible Author.

Schwartz S, Floh AA. Is this heart going to work? Pediatric Critical Care Medicine. 2014 November. 15(9):909-10. Senior Responsible Author.


Peer-Reviewed Fundings

2014 - present Co-Investigator. Randomized study of early nutritional delivery on glucose control, insulin resistance and systemic inflammation following pediatric cardiac surgery. Pediatric Heart Network Scholars Grant. $74,950.00 CAD. [Clinical Trials]
Invited Lectures and Presentations

International


Local


2015 Nov 4  Invited Lecturer. Cardiac Patient on ECMO. The ECMO Specialist’s Training Course, Sick Kids Hospital. Toronto, Ontario, Canada. (Continuing Education).

2015 Oct 24  Invited Speaker. Effective Use of Data to Impact Quality in Patients with Congenital Heart Disease: Harnessing Big Data in the Cardiac ICU. Canadian Cardiovascular Congress. Toronto, Ontario, Canada.


2014 Feb 26

**Invited Speaker.** Post-operative Management of Hypoplastic Left Heart Syndrome. George Brown Acute Interprofessional Cardiology Course. The Hospital for Sick Children. Toronto, Ontario, Canada. (Continuing Education).

2014

Dr. Anne-Marie Guerguerian (Hospital for Sick Children)

Peer-reviewed Publications

Journal Articles


**Book Chapters**

Morrisson W, Hunt E, Dean M, **Guerguerian AM**. Research design and statistical analysis. In: Nichols D, Shaffner DH., editor(s). Rogers Textbook of Pediatric Intensive Care. 5th ed. 2015. **Senior Responsible Author.**

**Clinical Care Guidelines**


**Editorials**


Eytan D, Goodwin A, Laussen P, **Guerguerian AM**. Insights from multi-dimensional physiological signals to predict and prevent cardiac arrests. Pediatric Critical Care Medicine. 2015 Sep. In Press. **Senior Responsible Author.**

**Guerguerian AM**, Ganeshalingham A, Ta E, Laughlin S. Computed Tomography After Pediatric Out-of-Hospital Cardiac Arrest - Where To Go Next? Pediatric Critical Care Medicine. 2015 Jul;16(6):590-592. **Principal Author.**

**Manuscript - Trainee publication**

Bamaga A, pediatric neuromuscular sub-specialty post-doctoral fellow. **Coauthor or Collaborator.**

**Peer-Reviewed Funding**


2010 Jul - 2015 Jun  **Site Investigator.** A randomized controlled trial of Therapeutic Hypothermia After Pediatric Cardiac Arrest (THAPCA). National Heart, Lung, and Blood Institute (NHLBI) (USA). PI: Moler, Frank; Dean, Mike. Collaborator(s): Guerguerian AM, Schwartz SM, THAPCA site investigators. $21,000,000.00 USD. [Grants].
**Invited Lectures and Presentations**

**International**

2015 Sep 20  

2015 Sep 17  

2015 Sep 16  

2015 Jan 31  

2014 Nov 18  

2014 Nov 16  

2014 Nov  

2014 Sept 15  

2014 May 23  


**Provincial**


**Local**

2015 Dec 3  **Invited Lecturer.** Quantifying Brain Injury on Computed Tomography in Hospitalized Children: A Prospective Trial. Department of Critical Care Medicine Research Rounds. Toronto, Ontario, Canada. Presenter(s): Guerguerian AM, LeBlanc N.


2014 Jun 10  Clinical outcomes in Children exposed to large-volume blood transfusion during extracorporeal membrane oxygenation support. Interdepartmental Division of Critical Care Medicine, University of Toronto Critical Care Medicine Residents’ Day Program. Toronto, Ontario, Canada. Presenter(s): Eva Fernandez Diaz. Oral Abstract Presentation. (Trainee Presentation).
2014 Jun 10  Costs associated with Extracorporeal Membrane Oxygenation: A Systematic Review. Interdepartmental Division of Critical Care Medicine, University of Toronto Critical Care Medicine Residents’ Day Program. Toronto, Ontario, Canada. Presenter(s): Tanya Di Genova. Poster Abstract. (Trainee Presentation).


2014 Jun 10  Heuristic Assessment of Software to Support Multimodal Monitoring. Interdepartmental Division of Critical Care Medicine, University of Toronto Critical Care Medicine Residents’ Day Program. Toronto, Ontario, Canada. Presenter(s): Ying Ling Lin. Poster Abstract. (Trainee Presentation).


2014 Jun 10  Dynamic modeling of cerebral hemodynamics in neonates after cardiac surgery. Interdepartmental Division of Critical Care Medicine, University of Toronto Critical Care Medicine Residents’ Day Program. Toronto, Ontario, Canada. Presenter(s): Saba Moghimi. Poster Abstract. (Trainee Presentation).


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<th>Date</th>
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<tr>
<td>2014 Jun 10</td>
<td>Using Cerebral Edema to Predict Outcome of Children with Traumatic Brain Injuries. Interdepartmental Division of Critical Care Medicine, University of Toronto Critical Care Medicine Residents' Day Program. Toronto, Ontario, Canada. Presenter(s): Eva Ta. Poster Abstract. (Trainee Presentation).</td>
</tr>
<tr>
<td>2014 Jun 10</td>
<td>Invited Speaker. Quality, Science and Extracorporeal Membranous Oxygenation (ECMO). Interdepartmental Division of Critical Care Medicine, University of Toronto Critical Care Medicine Residents' Day Program. Toronto, Ontario, Canada.</td>
</tr>
<tr>
<td>2014 Apr 29</td>
<td>Facilitator. Research in Motion (RiM) 2014 - Li Ka Shing Knowledge Institute, St. Michael's Hospital, University of Toronto, Faculty of Medicine. Toronto, Ontario, Canada. April 28-29, 2014.</td>
</tr>
</tbody>
</table>
**Dr. Tilman Humpl (Hospital for Sick Children)**

**Peer-reviewed Publications**

**Journal Articles**


Conway J, St Louis J, Morales DL, Law S, Tjossem C, **Humpl T**. Delineating Survival Outcomes in Children; 10 Kg Bridged to Transplant or Recovery With the Berlin Heart EXCOR Ventricular Assist Device. JACC Heart Fail. 2014 Nov 11. **Senior Responsible Author**

Woerner C, Cutz E, Yoo SJ, Grasemann H, **Humpl T**. Pulmonary veno-occlusive disease in childhood. Chest. 2014 Feb 6. **Senior Responsible Author**

**Invited Lectures and Presentations**

**International**


2014 Sept 13  **Moderator.** MCS. Pediatric Heart Failure Summit. Cincinnati, Ohio, United States.

2014 July  **Invited Speaker.** Indications for VAD in pediatrics. 4th Scientific Meeting of the Work Society for Pediatric and Congenital Heart Surgery. San Paulo, São Paulo, Brazil.

2014 May  

2014 May  
**Invited Speaker.** Positive effects of steroids on adverse events in VAD patients. EPUUG Meeting. Duisburg, Germany.

2014 Mar  
**Invited Speaker.** Genetics of Pulmonary Hypertension. 7th International Neonatal & Childhood Pulmonary Vascular Disease Conference. San Francisco, California, United States.

2014 Mar  
**Invited Speaker.** Similarities and Differences in Pediatric Pulmonary Hypertension Epidemiology Insights from Registries. 7th International Neonatal & Childhood Pulmonary Vascular Disease Conference. San Francisco, California, United States.

**Local**

2015 Oct 26  

2015 Oct 26  
**Invited Speaker.** Eisenmenger’s Syndrome. 2015 Canadian Cardiovascular congress. Toronto, Ontario, Canada. Presenter(s): Humpl T.

2015 Oct 5  
**Invited Lecturer.** Long term ventricle assist device. 25th anniversary of the ECMO program - Academic symposium. Toronto, Ontario, Canada. Presenter(s): Dr. Tilman Humpl. Video Presentation.

2014 Jun 8  
**Invited Speaker.** Myocarditis - VAD or ECMO? The 6th Cardiac Symposium: Non-Structural heart Disease. Toronto, Ontario, Canada.

2014 Jun 5  
**Chair.** The Pressure Loaded RV. The 3rd Toronto RV Symposium. Toronto, Ontario, Canada.

2014 Jun 5  
**Invited Speaker.** How is Eisenmenger RV different? The 3rd Toronto RV Symposium. Toronto, Ontario, Canada.
**Dr. Jamie Hutchison (Hospital for Sick Children)**

**Peer-reviewed Publications**

**Journal Articles**


**Hutchison JS**, Foster D. Shock. 2015 Nov;44(5):402-409. Eratum: **Coauthor or Collaborator.**


Abstracts


Editorials


Peer-Reviewed Fundings

2015 Jul - 2018 Jun Principal Investigator. A national biobank and database for patients with traumatic brain injury. Brain Canada. Brain Canada Technology and Platform Application. Collaborator(s): Baker, Andrew; Barlow, Karen; Clarke, David; Esser, Michael; Green, Robin; Lacroix, Jacques; Ptito, Alain; Walley, Keith. $3,000,000.00 CAD. [Grants]

2015 Mar - 2015 Dec Principal Applicant. Pilot study for the SQUEEZE Trial to determine whether septic shock reversal is quicker in pediatric patients randomized to an early goal directed fluid sparing strategy vs. usual care. Hamilton Health Sciences New Investigator Fund. Collaborator(s): Schonfield, Deborah; Boutis, Kathy; Parker, Melissa. $100,000.00 CAD. [Grants]


2010 Jan - 2016 Dec  Co-Investigator. From Bench to Bedside to Curbside. Clinical Research Consortium to improve Resuscitation Outcomes. Heart and Stroke Foundation of Canada (HSFC). PI: Morrison, Laurie. $15,000,000.00 CAD. [Grants]

2010 - 2014  Co-Investigator. The Bedside Paediatric Early Warning System: a cluster RCT of portality and processes of care. Canadian Institutes of Health Research (CIHR). PI: Parshuram, Christopher. $3,300,000.00 CAD

2009 Jan - 2016 Dec  Co-Investigator. From Bench to Bedside to Curbside. Clinical Research Consortium to improve Resuscitation Outcomes. Canadian Institutes of Health Research (CIHR). Operating grant. PI: Morrison, Laurie. $1,057,000.00 CAD. [Grants]

2009 - 2015  Co-applicant. Therapeutic Hypothermia in Pediatric Cardiac Arrest. National Institutes of Health. Collaborator(s): Frank Moler, Jamie Hutchison. $3,600,000.00 CAD. [Grants]

Invited Lectures and Presentations

International

2015 Oct 13  Panel Member. Session III - Safe Common Clinical Data Sharing (Methodology panel discussion: Menon, Manley, Hill, Hicks, McAuliffe, Bertiloni, Hutchison. International Traumatic Brain Injury (INTBIR). Brussels, Belgium. Presenter(s): Menon, Manley, Hill, Hicks, McAuliffe, Bertiloni, Hutchison.


2014 May 7  **Judge.** Poster Viewing and Exhibition. 7th World Congress on Pediatric Intensive and Critical Care. Istanbul, Turkey.

2014 May 7  **Chair.** Coma & Challenge. 7th World Congress on Pediatric Intensive and Critical Care. Istanbul, Turkey. Presenter(s): Hutchison Jamie, Figaji.

2014 May 6  **Chair.** Track the Brain Pain & Outcomes. 7th World Congress on Pediatric Intensive and Critical Care. Istanbul, Turkey. Presenter(s): Hutchison Jamie, Beca John.

2014 May 5  **Judge.** Poster Viewing and Exhibition. 7th World Congress on Pediatric Intensive and Critical Care. Istanbul, Turkey.

2014 May 5  **Invited Speaker.** The Good, the Bad, and the Ugly of Clinical Trials in Pediatric Neurocritical Care. 7th World Congress on Pediatric Intensive and Critical Care. Istanbul, Turkey.

2014 May 5  **Invited Speaker.** Cooling is good, Cooling is bad. 7th World Congress on Pediatric Intensive and Critical Care. Istanbul, Turkey.


2014 May  **Presenter.** Biomarkers in mild traumatic brain injury: a systematic review. 7th World Congress on Pediatric Intensive and Critical Care May 2014. Istanbul, Turkey. Presenter(s): Ide, Kentaro; Kukreti, Vinay; Nickel, Cheri; Augustinavicius, Jura; Hutchison, Jamie; Guerguerian, Anne-Marie. (Trainee Presentation).


**Provincial**

2015 Jan 28 **Chair.** Session Chair. Canadian Critical Care Trials Group (CCCTG). Lake Louise, Alberta, Canada. Presenter(s): Karam, Oliver; Brochard, Laurent; Bosma, karen; Burns, Karen.


**National**

2014 Apr 4 **Invited Speaker.** A paradigm shift in the care of patients with brain injury. Research Seminar, Research Institute, Children’s Hospital of Eastern Ontario (CHEO). Ottawa, Ontario, Canada.
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<tr>
<th>Date</th>
<th>Title</th>
<th>Event Description</th>
<th>Location</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>2015 Mar 27</td>
<td>Invited Speaker</td>
<td>Maureen Dennis Symposium, The Hospital for Sick Children.</td>
<td>Toronto, Ontario, Canada</td>
<td>Hutchison, Jamie</td>
</tr>
<tr>
<td>2015 Nov 15</td>
<td>Invited Speaker</td>
<td>Trauma transport. 27th Pediatric Anesthesia Conference.</td>
<td>Toronto, Ontario, Canada</td>
<td>Hutchison, Jamie</td>
</tr>
<tr>
<td>2014 Oct 31</td>
<td>Invited Speaker</td>
<td>Protecting the Pediatric Brain. Critical Care Canada forum (CCCF).</td>
<td>Toronto, Ontario, Canada</td>
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<tr>
<td>2014 Oct 31</td>
<td>Moderator</td>
<td>Antibiotics &amp; Influenza. Critical Care Canada forum (CCCF).</td>
<td>Toronto, Ontario, Canada</td>
<td></td>
</tr>
<tr>
<td>2014 Oct 29</td>
<td>Invited Speaker</td>
<td>Improving Outcomes following TBI. SickKids Alumni Meeting.</td>
<td>Toronto, Ontario, Canada</td>
<td></td>
</tr>
</tbody>
</table>
**Dr. Brian Kavanagh (Hospital for Sick Children)**

Peer-reviewed Publications

**Journal Articles**


Downar J, Sibbald RW, Bailey TM, Kavanagh BP. Withdrawal and withholding treatment in Canada: implications of the Supreme Court of Canada's decision in the Rasouli case. CMAJ. 2014 November. 186(16):E622-626. Senior Responsible Author


Goldenberg NM, Steinberg BE, Lee WL, Wijeysundera DN, Kavanagh BP. Lung protective ventilation in the operating room - time to implement? Anesthesiology. 2014 July. 121(1):184-8. Senior Responsible Author


McNamara P, Engelberts D, Finelli M, Adeli K, Kavanagh BP. Vasopressin improves survival compared to epinephrine in a neonatal model of asphyxial cardiac arrest. Pediatric Research. 2014 June. 738-748. Senior Responsible Author


Nurok M, Kavanagh BP. Problems with protocols - Hidden threats to effective use. 2014. Senior Responsible Author

Goligher EC, Murray A, Fan E, Tomlinson G, Rubenfeld GD, Kavanagh BP, Singh JM, Herridge MS, Ferguson ND. Time course and determinants of diaphragmatic atrophy during mechanical ventilation. 2014. Coauthor or Collaborator


Book Chapters


Editorials

Letters

Goldenberg NM, Steinberg BE, Kavanagh BP. Reply to comment on “Lung-protective ventilation in the operating room: time to implement?”. Anesthesiology. 2015 Feb;122(2):473-4. Senior Responsible Author

Letters to Editor


Peer-Reviewed Fundings


2014 Apr - 2019 Mar Principal Applicant. Ventilator-Induced Lung Injury: Linking gene activation, physiology and outcome (Operating Grant). Canadian Institutes of Health Research (CIHR). Collaborator(s): M Post, G Santyr, M Amato (Co-applicants). $718,000.00 CAD. [Grants]


2010 Oct - 2015 Sep Sole Applicant. Preclinical Assessment of Therapeutic Hypercapnia (Operating Grant-Renewal). Canadian Institutes of Health Research (CIHR). $563,000.00 CAD. [Grants]
Invited Lectures and Presentations

International


2015 Mar  Invited Speaker. Clinical decision making in critical care medicine: strengths and limitations of kinds of medical knowledge; Case discussion: Challenging pediatric respiratory failure; Fluid and Shock (Chair); Neonatal and Pediatric Case discussion: ECLS indication and goals. 11th European Postgraduate Course in Neonatal and Pediatric Intensive Care. Berne, Switzerland.


2014 Jun  **Invited Speaker.** Protocols and Guidelines (Invited Professor – Division of Critical Care Medicine) Boston Children’s Hospital, Division of Critical Care Medicine, Cardiac ICU, and Dept of Anesthesia. Boston, Massachusetts, United States.

2014 May  **Invited Speaker.** CO2 in critical illness. University of Toronto and FMUSP (INCOR) Symposium 2014: Respiratory, Critical Care and Sleep Medicine. Sao Paulo, Brazil.


2014 Mar  **Invited Speaker.** 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. 33rd International Symposium of Intensive Care and Emergency Medicine. Belgium, Brussels.

2014 Feb  **Invited Speaker.** Protocols and guidelines; PEEP during anesthesia; Fluids in OR: are we giving too much? International Anesthesia Meeting of the National Health Institute of Medical Sciences & Nutrition of Mexico. Mexico City, Mexico.

2014 Jan  **Invited Speaker.** Experience should be used to make decisions; Glucose control in sepsis. Society of Critical Care Medicine Congress. San Francisco, California, United States.

2014  **Invited Speaker.** "Protocols and Guidelines in Acute Care" (Adobe Air application) OPEN Pediatrics. Boston, Massachusetts, United States.

**National**

2014 Jan  

**Local**

2015 Oct  
**Co-Moderator.** Physician-Assisted Death; Do Molecules Matter?; AC Bryan Physiology Symposium; DCD a Standard for Care? (pro); Physiology to improve RCTs. Critical Care Canada Forum 2015. Toronto, Canada.

2015 Sep  
**Invited Speaker.** Anesthesiology - Shaping Our Future. 60th Ontario Anesthesia Meeting. Toronto, Canada.

2014 Oct  
Dr. Afrothite Kotsakis (Hospital for Sick Children)

Peer-reviewed Publications

Journal Articles


Book Chapters


Curriculum

Peer-Reviewed Funding

2010 Dec - 2014 Dec **Principal Site Investigator.** Can adherence to PALS guidelines be improved by team training of pediatric resuscitation team members? Heart and Stroke Foundation of Canada (HSFC) and the Canadian Institutes of Health Research Institute of Circulatory and Respiratory Health (CIHR-ICRH). PI: Gilfoyle, Elaine. Collaborator(s): Duff, J., Kotsakis, A., Gottesman, R., Writer, H. $474,038.00 CAD. [Grants]


Invited Lectures and Presentations

International

2014 Apr 23 **Invited Speaker.** Title: Build It And They Will Come: Tools To Develop An Interprofessional Simulation-Based Education Program. 6th International Pediatric Simulation Symposia and Workshop. Wien, Austria. Presenter(s): Elaine Ng Afrothite Kotsakis.

2014 Apr **Invited Speaker.** 6th International Pediatric Simulation Symposia and Workshops. International Pediatric Simulation. Wien, Austria. Presenter(s): Mema, B., Kotsakis, A. Validation of A Paediatric Critical Care OSCE.

Provincial


National

Local


2015 Jun 2  **Senior Author.** Pediatric ICU Readmission: A Systemic Review. Art Slutsky Day (IDCCM), University of Toronto Faculty of Medicine. Toronto, Ontario, Canada. Presenter(s): Neeraj Verma.

2014 Dec 5  **Invited Speaker.** Develop a Simulation Based Standardized Clinical Exam (OSCE) in a Competency Based Medical (CBM) Era. SIM-one. Toronto, Ontario, Canada. Presenter(s): Kotsakis, A., Mema, B.

2014 Dec 5  **Presenter.** Debriefing interprofessional teams. SIM-one. Toronto, Ontario, Canada. Presenter(s): Ng, E., Kotsakis, A., Murray, D.

2014 Nov 6  **Presenter.** Facilitation and Debriefing Course. The Learning Institute, Hospital for Sick Children. Toronto, Ontario, Canada.

2014 Oct 25  **Invited Speaker.** Debriefing: From simulation to clinical setting. International Conference on Residency Education. Toronto, Ontario, Canada. Developed the workshop with a coauthor including learning objectives, teaching material, case based teaching scenarios.


**Dr. Peter Laussen (Hospital for Sick Children)**

**Peer-Reviewed Publications**

**Journal Articles**


Mehta NM, Sharma S, **Laussen PC**. Unplanned extubation: securing the tool of our trade. Intensive Care Medicine. 2015 Nov;41(11):1983-5. **Senior Principal Author.**


Cheng HH, Carmona F, McDavitt E, Wigmore D, Perez-Rossello JM, Gordon CM, Pigula FA, **Laussen PC**, Rajagopal SK. Fractures related to metabolic bone disease in children with congenital heart disease. Congenital Heart Disease. 2015 Aug;Epub ahead of print. **Coauthor or Collaborator.**

Taylor KL, **Laussen PC**. Anesthesia outside of the operating room: The pediatric cardiac catheterization laboratory. Curr Opin Anaesthesiol. 2015 Aug;128(4):453-7. **Senior Principal Author.**

**Laussen PC**. Learning and Evolving (2nd Anthony Chang Lecture, presented at the 10th International Meeting of the Pediatric Cardiac Intensive Care Society, Miami, Florida - Dec 12, 2014). Cardiol Young. 2015 Jun;25(5):984-90. **Senior Principal Author.**


Books


Book Chapters


Sivarajan B, Yeh J, **Laussen PC**, Roth SP. Cardiac Intensive Care. 2014. In Anesthesia for Congenital Heart Disease. 3rd Edition. Andropolous DB, Slayer SA, Mossad EB, Miller-Hance WC, editor(s). In Press. **Coauthor or Collaborator.**


Peer-Reviewed Funding

2015 Jul - 2017 Jun  Principal Applicant. Validating a hemodynamic early warning system in pediatric critical care. University of Toronto. Department of Anesthesia Merit Award. $60,000.00 CAD. [Grants]


Invited Lectures and Presentations

International


2015 Nov 7  Invited Speaker. “Airway and Respiratory Management in Heart Failure”. 23rd Annual Pediatric Critical Care Workshop. Tsukuba City, Japan.


2015 Sep 11  Co-Chair. Scores and Outcomes in Cardiac Disease. 4th European Conference on Paediatric and Neonatal Cardiac Intensive Care (EPNCIC). Geneva, Switzerland.

2015 Sep 11  **Invited Speaker**. “The basic need to build a highly reliable cardiac team”. 4th European Conference on Paediatric and Neonatal Cardiac Intensive Care (EPNCIC). Geneva, Switzerland.


2015 Mar 12  **Invited Speaker**. “Critical Congenital Heart Disease: HLHS - Before the OR” (Multidisciplinary Round Table). CHOC Children’s NeoHeart 2015: Cardiovascular Management of the Neonate. Huntington Beach, California, United States.

2015 Mar 12  **Invited Speaker**. “Critical Congenital Heart Disease: HLHS - Perioperative Issues” (Multidisciplinary Round Table). CHOC Children’s NeoHeart 2015: Cardiovascular Management of the Neonate. Huntington Beach, California, United States.


2015 Feb 14  **Invited Speaker**. “Can we use big data to inform on decisions concerning extubation?”. Cardiology 2015: 18th Annual Update on Pediatric and Congenital Heart Disease - Challenges and Dilemmas. Scottsdale, Arizona, United States.

2015 Feb 14  **Invited Speaker**. “Thrombosis in Pediatric and Congenital Cardiovascular Disease” (Moderated Panel of Experts). Cardiology 2015: 18th Annual Update on Pediatric and Congenital Heart Disease - Challenges and Dilemmas. Scottsdale, Arizona, United States.


2014 Dec 12-13  **Invited Speaker**. Teaching in the CICU: Bullying or Feedback? (Pro/Con); Learning and Evolving (The Anthony C. Chang lecture); Pediatric Cardiac Intensive Care Society 10th International Conference. Florida, Miami, United States.

2014 Dec 12  **Moderator**. Confessions of a CICU Director. Pediatric Cardiac Intensive Care Society 10th International Conference. Florida, Miami, United States.
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<th>Presenters</th>
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<tr>
<td>2014 Jul 3-5</td>
<td>Invited Speaker</td>
<td>Recent development of pre- and postoperative neonatal cardiac surgery; Management of HLHS; Modifiable Risk: Critical Care Contributions to Outcome.</td>
<td>50th Annual Meeting of Japanese Society of Pediatric Cardiology and Cardiac Surgery. Okayama, Japan.</td>
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<tr>
<td>2014 May 5-7</td>
<td>Invited Speaker</td>
<td>Transforming data to information: The challenges is ours; What cardiac intensivists think is important; The challenge of transitioning young adult with congenital heart disease from pediatrics to adult care.</td>
<td>7th World Congress on Pediatric Intensive and Critical Care; Istanbul, Turkey.</td>
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<tr>
<td>2014 May 5</td>
<td>Moderator</td>
<td>The Heart: Heart and Family.</td>
<td>7th World Congress on Pediatric Intensive and Critical Care; Istanbul, Turkey.</td>
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2014 Jan  
**Invited Speaker.** Modifiable Risk in the CICU: Seeing is Believing. Congenital Cardiology Group / SYZYGY Innovation Summit. Dana Point, United States.

**Provincial**

2015 Oct 21  

2014 May  
**Presenter.** Cerebral Oxygenation Extraction Measured by NIRS and Jugular Bulb Oxygen Saturation Demonstrates the Importance of Hemoglobin Concentration in Congenital Heart Disease. International Anesthesia Research Society. Quebec, Montreal, Canada. Presenters: Kussman BD, McGowan FX, Laussen PC, McElinniey DB, Benni P.

**National**

2014 Oct 31  

2014 Oct 31  

2014 Oct 30  

2014 Oct 29  
**Invited Speaker.** Predictions from Physiologic Data. CCCF / CCCS Residents’ Day. Toronto, Ontario, Canada.

**Local**

2015 Nov 20  
**Invited Speaker.** “Precision Critical Care”. Congenital Heart Surgeons’ Society (CHSS) Data Center Fall Work Weekend. Toronto, Canada.

2015 Oct 28  

2015 Apr 29  

2015 Feb 27  
**Invited Speaker.** “Bedside PEWS: Decision to implement”. International Bedside PEWS Day. Toronto, Canada.


**Honours and Awards**

2014 Jul  Department of Anesthesia Interim Merit Research Award. Department of Anesthesia, University of Toronto. Toronto, Canada.

**Dr. Briseida Mema (Hospital for Sick Children)**

**Peer-reviewed Publication**

**Journal Article**

Ma IW, Pugh D, **Mema B**, Brindle ME, Cooke L, Stromer JN. Use of an error-focused checklist to identify incompetence in lumbar puncture performances. Med Educ. 2015 Oct;49(10):1004-15. **Coauthor or Collaborator.**


**Peer-Reviewed Fundings**

- **2014 Feb - 2015 Feb**  **Collaborator.** RESPECT: a tool to improve patient care quality and safety & facilitate team learning. Canadian Institutes of Health Research (CIHR). Catalyst Grant: eHealth Innovations. PI: Parshuran, C. Collaborators: Dryden-Palmer V, Tijssen N. $92,205.00.00 CAD. [Grant]

- **2014 - 2015**  **Principal Investigator.** In search of the optimal bronchoscopy training platform: Evaluating the use of a novel, low cost, virtual tool for pre-training novice learners. The Hospital for Sick Children. Perioperative Services Innovation Projects. Collaborator: Dubrowski A. $9,000.00 CAD. [Grant].

- **2013 Jul - 2015 Jul**  **Principal Applicant.** Rehersal vs. Premier - Chest Tube Skills From Simulation to Bedside. The Hospital for Sick Children. Paediatric Consultant’s Education Research Grants Committee. Collaborators: Park Y, Mylopopulos M. $5000.00 CAD. [Grant]

- **2013 Jul - 2014 Jul**  **Principal Investigator.** Post Factum – What if you could change the terms? Initial experiences of U/S guided lines. The Hospital for Sick Children. Pediatric Consultants Education research Grants Committee. $2,898.50 CAD. [Grant]

- **2012 Jul - 2014 Jul**  **Student.** Royal College of Physicians and Surgeons of Canada. Royal College Fellowship for Studies in Medical Education. Fellowship for Studies in Medical Education $45,000.00 CAD. [Grant]
Invited Lectures and Presentations

International

2015 Feb 6  Invited Speaker. Education Beyond...”see one ...do one.... kill one”. 12th Asia Pacific Medical Education Conference. Singapore.

2015 Feb 5  Facilitator. Develop a simulation based objective standardized clinical exam (OSCE) in a competency based medical education (CBME) era. 12th Asia Pacific Medical Education Conference. Singapore.

2015 Feb 5  Facilitator. 2nd presentation: Develop a simulation based objective standardized clinical exam (OSCE) in a competency based medical education (CBME) era. 12th Asia Pacific Medical Education Conference. Singapore.


2014 Oct 6-10  Invited Speaker. Pediatric EMS course. Cardiac Emergencies; AHA Updated Guidelines; Pediatric Septis; Respiratory Emergencies; Pediatric Shock. Yerven, Armenia.


2014 Apr 23  Presenter. 6th International Pediatric Simulation Symposia and Workshop. MORE IS NOT ALWAYS BETTER” High satisfaction and performance in thoracostomy with a low fidelity model. Vienna, Austria.

**Provincial**


2015 Nov 25  **Invited Lecturer.** Effective use of simulation for procedural teaching. 2015 Simulation Summit. Banff, Alberta, Canada. Presenter(s): Mema B.


**National**


**Local**

2015 Dec 15  **Invited Lecturer.** Effective use of simulation for procedural teaching in medical education: beyond...


2015 Nov 11  **Invited Lecturer.** Making Learning Stick. Faculty Development Day. 1 of 2 workshops. Toronto, Ontario, Canada.

2015 Nov 11  **Invited Lecturer.** Making Learning Stick. Faculty Development Day. 2 of 2 workshops. Toronto, Ontario, Canada.


Honours and Awards

2012 Jul - 2014 Jun  POWER Teaching Award, Postgraduate Medical Education, Dept of Pediatrics, Faculty of Medicine, University of Toronto, The Hospital for Sick Children, Ontario, Canada. (Postgraduate MD, Core Program)
Dr. Hadi Mohseni-Bod (Hospital for Sick Children)

Peer-Reviewed Publications

Journal Articles


Invited Lectures and Presentations

International

2014 Oct 16-22 Invited Speaker. Management of DKA; Central venous pressure monitoring; Neurologic monitoring in PICU. 26th International Paediatric Congress. Tehran, Iran.
Dr. Christopher Parshuram (Hospital for Sick Children)

Peer-Reviewed Publications

Journal Articles


Book Chapters


Peer-Reviewed Funding


2013 Jan - 2014 Dec Co-Investigator. Improving Precision: Randomized Control Trial of Milrinone Therapeutic Drug Monitoring. Canadian Anaesthesiologists’ Society. PI: Taylor K. $20,000.00 CAD. [Grants]

2012 – 2016 Principal Investigator. End of Life Research Funding. RDV Foundation. Unrestricted grant for RDV Foundation. $150,000.00 CAD. [Grants]


Invited Lectures and Presentations

International


2015 Jan 16 Invited Speaker. BedsidePEWS. Princess University Hospital. London, United Kingdom. Presenter(s): Parshuram, Christopher.
2015 Jan 15  **Invited Speaker.** BedsidePEWS / Emergency BedsidePEWS. Whipp’s Cross University Hospital. London, City of, United Kingdom. Presenter(s): **Parshuram, Christopher.**


2014 May  **Supervisor.** Enhancing Implementation; Identifying influential factors in the adoption of complex and clinical interventions. 7th World Congress on Pediatric Intensive and Critical Care. Istanbul, Turkey. Presenters: Dryden-Palmer K, Middaugh K. (Trainee Presentation).


**Provincial**

2015 Jun 9  **Invited Speaker.** Evaluating processes of care & the outcomes of children in hospital (EPOCH) - Update of project underway. Canadian Critical Care Trials Group (CCCTG). Montebello, Quebec, Canada.

2015 Jun 9  **Invited Speaker.** InCURS: Intensive Care Unit Resident Scheduling Study First presentation of new project part of existing program. Canadian Critical Care Trials Group (CCCTG). Montebello, Quebec, Canada. Presenter(s): Parshuram, Christopher; Piquette, Dominique.
2015 Jan 28  **Invited Speaker.** InCURS - ICU Duty Hours Program. Canadian Critical Care Trials Group (CCCTG). Lake Louise, Alberta, Canada.


2014 Jan 29  **Invited Speaker.** ICU residents study (Update of project underway). Canadian Critical Care Trials Group (CCCTG). Lake Louise, Alberta, Canada

**Local**


2015 Oct 27  **Session Moderator.** Quality Rounds. Critical Care Canada Forum (CCCF). Toronto, Ontario, Canada. Presenter(s): Parshuram, C; Rose, L.


2014 Oct 16  **Panel Member.** End of Life Decisions on the PICU. Paediatric Palliative Care Symposium, The Hospital for Sick Children. Toronto, Ontario, Canada.

2014 Oct 8  **Invited Speaker.** Patient safety, resident wellbeing and continuity in three resident duty schedules in ICU: a randomized trial. Centre for Quality Improvement and Patient Safety (C-QuIPS), The Hospital for Sick Children. Toronto, Ontario, Canada.

2014 Sep 11  **Presenter.** Bedside Paediatric Early Warning System. Research Rounds, Department of Critical Care Medicine, The Hospital for Sick Children. Toronto, Ontario, Canada.

2014 Jun  


2014 Feb 28  

**Invited Speaker.** Resident Duty Hours. Critical Care Rounds, St. Michael’s Hospital. Toronto, Ontario, Canada.
Peer-reviewed Publications

Journal Articles


Floh AA, Schwartz S. Is Glucose Metabolism Important for Patients on ECMO? Pediatric Crit Care Med. 2015 Mar;16(3):296-7. **Senior Responsible Author**.


Schwartz S, Floh AA. Is this heart going to work? Pediatr Crit Care Med. 2014 Nov;15(9). **Principal Author**.


**Book Chapters**


**Editorials**


**Comment, Editorials**


**Peer-Reviewed Fundings**

2015 - 2021 **Co-Investigator.** Cardiovascular Physiology and Brain Development in Newborns with Congenital Heart Disease. Canadian Institutes of Health Research (CIHR). PI: Miller Steven, Seed Mike. Collaborator(s): Blaser SI, Brant RF, Chau V, Hickey EJ, Kingdom JC, Ly LG, MacGowan CK, Schwartz SM, Sled JG. $1,008,289.00 CAD. [Grants]

2015 **Principal Investigator.** Multicentre, open -label,does escalation study to evaluate safety, tolerability and pharmacokinetics of RLX030 in addition to standard of care in pediatric patients from birth to <18 years of age, hospitalized with acute heart failure. Novarits AG. [Grants]

2014 - 2015 Jan **Mentor.** Randomized study of early nutritional delivery on glucose control, insulin resistance and systemic inflammation following pediatric cardiac surgery. Pediatric Heart Network Scholars Grant. Pediatric Heart Network Scholars Grant. PI: Floh AA. $75,000.00 CAD. [Grants]

2013 Jul - 2014 Jun **Co-Investigator** Improving Precision: Randomized Control Trial of Milrinone Therapeutic Drug Monitoring. Canadian Anesthesiologists’ Society. PI: Taylor, Katherine. Collaborators: Parshuram C. $20,000.00 CAD. [Grants]


2011 Jul - 2014 Jun **Principal Investigator.** Glucose Homeostasis and Cardiac Output After Paediatric Cardiac Surgery. Heart and Stroke Foundation of Canada. NA 7834. 195,019 CAD. [Grants]


2010 – 2015 **Co-Investigator.** Clinical Assessment of Thrombosis in Children After Heart Surgery: The CATCH Study. Canadian Institutes of Health Research (CIHR). Operating Grant. PI: McCrindle, BW. $1,514,330.00 CAD. [Grants]

**Invited Lectures and Presentations**

**International**

2015 Dec 5 **Invited Lecturer.** Better Hearts and Brains: Is the ICU the problem and how can we be part of the solution? Evolution or Revolution? Nicklau Children’s Hospital - Heart Program. Florida, United States.


2015 Oct 7  **Visiting Professor.** Improving Outcomes in Pediatric Cardiac Care: Small Steps and Big Leaps. Columbia University Medical Centre. New York, United States. 20th Annual Sylvia P Griffiths Lectureship and Teaching Day.

2015 Oct  **Visiting Professor.** Case Studies in Cardiovascular Physiology in the Cardiac ICU. Columbia University Medical Centre. New York, New York, United States.

2015 Sep 15  **Invited Speaker.** Masterclass Programme: How I use haemodynamic monitoring to provide state of the art care. PICS 2015 29th annual Paediatric Intensive Care Society Conference. Birmingham, United Kingdom.

2015 Sep 15  **Invited Speaker.** Medical Management of cardiac failure. PICS 2015. Birmingham, United Kingdom.

2015 Jul  **Invited Research Presentation.** Improving Outcomes in Pediatric Cardiac Care: Small Steps and Big Leaps. Children’s Hospital of Wisconsin. Milwaukee, Wisconsin, United States.

2015 Mar 28  **Keynote Speaker.** Quality Assurance and avoiding medical error in the PICU. AICS Cardio - AbbVie Infant Care Summit. São Paulo, Brazil.

2015 Mar 28  **Keynote Speaker.** Optimizing the Intensive Care Support to the Failing Heart. AICS Cardio - AbbVie Infant Care Summit. São Paulo, Brazil.

2015 Mar 13  **Invited Speaker.** Case Studies in the PICU: CV physiology in the PICU. European Postgraduate course in neonatal and pediatric intensive care medicine. Bern (de), Switzerland.

2015 Mar 13  **Invited Speaker.** Perioperative stage 1 in hypoplastic left heart syndrome. European Postgraduate course in neonatal and pediatric intensive care medicine. Bern (de), Switzerland.

2015 Mar 13  **Invited Speaker.** Residual Left Heart Lesion in the biventricular Circulation. European Postgraduate course in neonatal and pediatric intensive care medicine. Bern (de), Switzerland.

2015 Mar 12  **Keynote Speaker.** Total system cardiovascular physiology. European Postgraduate course in neonatal and pediatric intensive care medicine. Bern (de), Switzerland.

2014 Dec 14  **Invited Speaker.** Pharmacology of LCOS. PCICS. Miami, Florida, United States.

2014 Oct  Invited Speaker. subsets. American Academy of Pediatrics National Conference and Exhibition. HLHS: Current Expectations, risk stratification, are the high risks subsets are what is the correct approach to those. San Diego, California, United States.

2014 Sep 23 Invited Speaker. Boston’s Children Hospital. Acute and Chronic Heart Failure in Children: It’s not Just About the Inotropes? Boston, Massachusetts, United States.

2014 Sep 12 Invited Speaker. Pediatric Heart Failure Summit. Diastolic Dysfunction Early and Late After Surgery -MD Track 2 - Cardiomyopathy in CHD. Cincinnati, Ohio, United States.

2014 Mar 6 Invited Speaker. The 5th Congress of the Asia Pacific Pediatric Cardiac Society Meeting. What’s new in intensive care and how much of it really works?; Post operative care of the regressed LV; Risk factors for CLABSI and sepsis in the PCICU; Debate (con): Glycemic control impacts outcomes after pediatric cardiac surgery. New Delhi, India. March 6-9, 2014.


Local


2014 Jun 6  **Invited Speaker.** The 6th Cardiac Symposium: Non-Structural Heart Disease in Children. PostopSIRS - Can we avoid it? Toronto, Ontario, Canada.

2014 Jun 4  **Chair.** The 3rd Toronto RV symposium. Complex Decisions in the Congenitally Malformed RV. Toronto, Ontario, Canada.


**Honours and Awards**

2010 Jan - 2015 Jan  **The Norine Rose Chair in Cardiovascular Sciences,** Inaugural Chair holder, Labatt Family Heart Centre/The Hospital for Sick Children, Ontario, Canada.
Dr. Venkatesan Ben Sivarajan (Hospital for Sick Children)

Peer-Reviewed Publications

Journal Articles

Sivarajan B, Yeh J, Laussen PC, Roth SP. Cardiac Intensive Care. Anesthesia for Congenital Heart Disease. Principal Author.

Peer-Reviewed Funding


2009 Jun - present Principal Investigator. Changes in Plasma Arginine and DMA in Neonates. The Hospital for Sick Children. Labatt Heart Centre Innovation Fund. $3,460.00 CAD. [Grants]


Invited Lectures and Presentations

International


Local

Dr. Neill Adhikari (Sunnybrook Hospital)

Peer-Reviewed Publications

Journal Articles


Da Luz LT, Nascimento B, Shankarakutty AK, Rizoli S, Adhikari NK. Effect of thromboelastography (TEG®) and rotational thromboelastometry (ROTEM®) on diagnosis of coagulopathy, transfusion guidance and mortality in trauma: descriptive systematic review. Crit Care. 2014 Sept 27;18(5);518. **Senior Responsible Author.**


Vukoja M, Riviello E, Gavrilovic S, Adhikari NK, Kashyap R, Bhagwanjee S, Gajic O, Kilickaya O, CERTAIN Investigators. A survey on critical care resources and practices in low- and middle-income countries. Glob Heart. 2014 Sept 1;9(3); 337-342.e5. **Coauthor or Collaborator.**


Duggal A, Ganapathy A, Ratnapalan M, Adhikari NK. Pharmacological treatments for acute respiratory distress syndrome: systematic review. Minerva Anestesiol. 2014 Jun 17. **Senior Responsible Author.**


Abstracts

Leligdowicz A, Murthy S, Adhikari NK. Critical care capacity in low-income countries: a systematic review Crit Care Med. 2014 Dec;42(12);A1394. Senior Responsible Author.


Lamontagne F, Bosma K, **Adhikari N**, Friedrich J, Silversides J, Sanchez J, Wise M, Arroglia A, Arabi YM, Charbonney E, Lazosky L, Granot JT, Ferguson ND, Meade MO. Changes In MAP And Vasopressors Predict Mortality In Oscillation For ARDS. Data From The OSCILLATE TrialAm J Respir Crit Care Med. 2014 May:189(A1172). **Coauthor or Collaborator.**


**Book Chapters**


**Editorials**

WHO interim guidance document


Peer-Reviewed Funding


2015 Jul - 2019 Jun Co-Investigator. STandard versus Accelerated initiation of Renal Replacement Therapy in Acute Kidney Injury (STARRT-AKI). Canadian Institutes of Health Research (CIHR). Operating Grant. PI: Wald, Ron; Bagshaw, Sean. Collaborator(s): Adhikari, Neill K; Bellomo, Rinaldo; Burns, Karen E; Cailhier, Jean-Francois; Chawla, Lakhmir; Dodek, Peter M; Friedrich, Jan; Garg, Amit; Herridge, Margaret S; Hiremath, Swapnil; Lamontagne, Francois; Lapinsky, Stephen E; Manns, Braden J; Mazer, David; McGuinness, Shay; McIntyre, Lauralyn A; Muscedere, John; Ostermann, Marlies; Palevsky, Paul M; Pettitiä, Ville; Smith, Orla M; Soth, Mark D; Stelfox, Henry T; Thorpe, Kevin E; Turgeon, Alexis F; Weir, Matthew A; Wilcox, Mary E. $1,177,472.00 CAD. [Grants]


Invited Lectures and Presentations

International

2015 Oct 3 Presenter. Communicating the magnitude of treatment effect: a survey of clinicians in eight countries. 23rd Cochrane Colloquium. Vienna, Austria. Presenter(s): Johnson BC.


2015 May Presenter. The RECOVER Program: One-Year Disability in Critically Ill Patients Mechanically Ventilated (MV) for 7 Days. American Thoracic Society International Conference. Denver, Colorado, United States. Presenter(s): Herridge MS


Local


2015 May 27  Invited Speaker. The where of research: not always here! Sunnybrook Department of Critical Care Medicine Grand Rounds: the gathering.


2014 Apr 16  Invited Speaker. SHSC Department of Critical Care Medicine Grand Rounds. ECLS - coming soon to Sunnybrook? Toronto Ontario, Canada.

Dr. Andre Amaral (Sunnybrook Hospital)

Peer-Reviewed Publications

Journal Articles


Detsky M, **Amaral AC**, Bell C. A Two-site Survey of Clinicians to Identify Practices and Preferences of Intensive Care Unit Transfers to General Medical Wards. Journal of Critical Care. 2014. **Coauthor or Collaborator.**


Abstracts

Walter G, Duncan B, Harrington H, Kure L, **Amaral AC**. A Quality Improvement Project to Decrease Non-Value Blood Work in Critical Care. University of Toronto Centre for Quality Improvement and Patient Safety (C-QuIPS) Symposium. 2014 Oct. **Senior Responsible Author.**

McCreath G, **Amaral AC.** A simplified screening algorithm to monitor compliance with lung protective ventilation in ARDS. ESICM. 2014 Sept. **Senior Responsible Author.**

Dutra M, Monteiro MV, Ribeiro K, Schettino GPP, **Amaral AC.** Handoffs in the ICU: interobserver agreement between the physician staff on diagnosis and goals between daytime and nighttime intensivists. ESICM. 2014 Sept. **Senior Responsible Author.**

Au A, Duncan B, Barnes M, Russell J, Holmes N, Azarcon M, Adamson M, Gurau D, **Amaral AC.** Errors Are Part of Being Human, But Should We Accept The Cost Of Medication Errors To Patients/Families? CACCN. 2014 Aug. **Senior Responsible Author.**

Au A, Thomas B, McMillan L, Escalona P, Duncan B, Holmes N, **Amaral AC.** Preparing Patient/Family for Transfer Out of ICU. CACCN. 2014 Aug. **Senior Responsible Author.**

Walter G, Duncan B, Harrington H, Kure L, **Amaral AC.** A Quality Improvement Project to Decrease Non-Value Blood Work in Critical Care. CACCN. 2014 Aug. **Senior Responsible Author.**

**Book Chapter**

**Amaral AC.** Facilitating Interactions Between Healthcare Providers in the ICU. The Organization of Critical Care, Respiratory Medicine. 2014.Chapter 8. **Principal Author.**

**Editorials**

**Amaral, AC.** The Intensivist Effect: Three Variables + Two Papers + One Cohort = ? Crit Care Med. 2015;43. In Press. **Principal Author.**

**Peer-Reviewed Funding**

<table>
<thead>
<tr>
<th>Date Range</th>
<th>Funding Details</th>
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<tr>
<td>2015 Jul - 2016 Jun</td>
<td><strong>Co-Investigator.</strong> A National Strategy on Quality of Care Research and Evaluation - With the Patient for the Patient. CIHR. Planning and Dissemination Grant- Institute Community Suppor. PI: Hebert, Paul. Collaborator(s): Amaral, Andre C; Bagshaw, Sean M; Chasse, Michael; Debigaré, Sylvie; Dodek, Peter M; Lamontagne, Francois; Martin, Claudio M; Muscedere, John; Scales, Damon C; Turgeon, Alexis F. $25,000.00 CAD. [Grants]</td>
</tr>
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</table>


**Invited Lectures and Presentations**

**Provincial**

2014 Sept  **Presenter.** The Canadian Association of Critical Care Nurses: CACCN Conference. Anita Au, RN, MN,CNCC(C); Barb Duncan, RN, BScN; Maria Barnes, Jonathan Russell, RN; Nicky Holmes, RN, MN; Michelle Azarcon, RN Melissa Adamson, RN, BScN; Dara Gurau. Errors Are Part of Being Human, But Should We Accept The Cost Of Medication Errors To Patients/Families? Poster. Quebec, Quebec City.

2014 Sept  **Presenter.** The Canadian Association of Critical Care Nurses: CACCN Conference. Anita Au, RN, MN, CNCC(C); Biji Thomas, BScN, RN; Liseth McMillan, BScN, RN; Peggy Escalona, BScN, RN; Barb Duncan, BScN, RN; Nicky Holmes, RN, MN.Preparing Patient/Family for Transfer Out of ICU. Quebec, Quebec City.

**Local**


2014 Sept 11  Invited Speaker. Sunnybrook Health Sciences Centre. Expanding the score of Rapid Response Teams: A feasible approach to identify preventable adverse events that cause harm. Toronto, Ontario, Canada.

Honours and Awards

Dr. Martin Chapman (Sunnybrook Hospital)

Peer-Reviewed Publication

Journal Article


Peer-Reviewed Funding


Invited Lectures and Presentations

International


Provincial

2014 Sept 21 **Presenter.** Nurse Perceptions Of Care Provided In A Virtual Neurocritical Care Unit. Dynamics of Critical Care 2014, Canadian Association Critical Care Nurses. Quebec City, Quebec, Canada.

Local

2014 June 19 **Invited Speaker.** Preserving the Mind after Cardiac Arrest - It's More than Adding Ice Update on therapeutic hypothermia for post-cardiac arrest care. Schulich Heart Centre Update 2014 for Nurses and Technologists. Toronto, Ontario, Canada.
Peer-Reviewed Publications

Journal Articles


Peer-Reviewed Fundings

2015 Jul - 2020 Jun  Co-Investigator. The NEUROlogically-impaired extubation Timing Trial (NEURO-ETT). Canadian Institutes of Health Research. Operating Grant. PI: Scales, Damon C; Ferguson, Niall D. Collaborator(s): Adhikari, Neill K; Alali, Aziz S; Baker, Andrew J; Bosma, Karen J; Brochard, Laurent J; Chapman, Martin G; Charbonney, Emmanuel; Cuthbertson, Brian H; Fowler, Robert A; Griesdale, Donald; Mainprize, Todd G; McCredie, Victoria A; Meade, Maureen O; Nathens, Avery B; Rubenfeld, Gordon; Seely, Andrew J; Singh, Jeffrey M; Turgeon, Alexis F; Wilcox, Mary E; Zygun, David A. $880,404.00 CAD. [Grants]


Invited Lectures and Presentation

International


2015 Jun 17  Invited Speaker. MET Study Update. Collaborative Clinical Trials in Anaesthesia Conference, Monash University Centre in Prato. Prato, Italy.


2014 June 13-14  Invited Speaker. SuDDICU – balancing individual and population risk?; Tolerable risk. Why are countries so different and what does this mean for clinical studies?; How to do a ICU year in my country (CANADA); The risks of doing the right thing when a family don’t agree. Annual Scientific Meeting of the College of Intensive Care Medicine of Australia and New Zealand. Brisbane, Australia.


Provincial


National


Local

2015 Dec 1  Invited Speaker. Sunnybrook Research Rounds. Division of Cardiology, Schulich Heart Centre, Sunnybrook Health Sciences Centre. Toronto, Ontario, Canada.


2014 June 18  Invited Speaker. Reflections on the Rasouli Case. City Wide Medical Grand Rounds (CWMGR) at the University of Toronto Department of Medicine. Toronto, Ontario, Canada.
Dr. Shelly Dev (Sunnybrook Hospital)

Peer-Reviewed Publications

Multimedia


Peer-Reviewed Fundings


2011 Mar – present Principal Investigator. Is a Multimedia-Based Teaching Tool as Effective As Bedside Teaching? Proposal for a Validation Study. Education Development Fund, University of Toronto. Collaborator(s): Chow CM, Bandiera G. $4,993.00 CAD. [Grants]


2008 Mar – present Consultant/Producer. Lung Injury Knowledge Network, Educational Website Development National Heart, Lung, and Blood Institute (NHLBI) (USA). Collaborator(s): Rubenfeld G. $1,500,000.00 USD. [Grants]

Invited Lectures and Presentation

Local

2014 Dec Invited Speaker. Postgraduate Training Program Academic Half Day, Department of Cardiovascular Surgery, Faculty of Medicine, University of Toronto. The OR is Not Ready Yet: Managing Your Critically Ill Patient on the Ward. Toronto, Ontario, Canada.

2014 Oct  
**Invited Speaker.** Toronto East General Hospital, Department of Continuing Medical Education. It's All in the Lighting: Setting the Educational Climate. Toronto, Ontario, Canada.

2014 Sept 1  
**Invited Speaker.** Toronto East General Hospital, Department of Continuing Medical Education. In the Eye of the Beholder: Giving Feedback. Toronto, Ontario, Canada.

2014 Sept  
**Invited Speaker.** Department of Respiratory Therapy, Sunnybrook Health Sciences Centre. Little Brother is Watching: Role Models, Interprofessionalism and the Hidden Curriculum. Toronto, Ontario, Canada.

2014 Apr 1  
**Invited Speaker.** Toronto East General Hospital, Department of Continuing Medical Education. Great Expectations: Setting Objectives and Identifying Learner Needs. Toronto, Ontario, Canada.

2014 Apr  
**Invited Speaker.** Postgraduate Year 3 Academic Half Day, Department of Medicine, Faculty of Medicine, University of Toronto. Little Brother is Watching: Role Models, Professionalism and The Hidden Curriculum. Toronto, Ontario, Canada.
Dr. Robert Fowler (Sunnybrook Hospital)

Peer-Reviewed Publications

Journals


Letters to Editor


Review


Fowler R. CPR & Beyond. How will IPR therapy impact the way we treat patients in the future? JEMS. 2014 Dec 1;Suppl:14-9. Principal Author.


Peer-Reviewed Fundings


2014 – 2018  **Co-Principal Investigator.** Bacteremia Antibiotic Length Actually Needed for Clinical Effectiveness (BALANCE): a Pilot Randomized Clinical Trial Ontario Ministry of Health and Long-Term Care. $81,892.00 CAD. [Grants]


2014 – 2015  **Co-Investigator.** Evaluation of a novel cardiopulmonary resuscitation (CPR) video decision aid to promote shared decision-making. Heart and Stroke Foundation of Canada (HSFC). PI: Kryworuchko J. $60,682.00 CAD. [Grants]


2013 – 2014  **Primary Investigator.** A Pilot Study to Ascertain the use of Intensive Care Units (ICU's) as an Option for the Surveillance of Severe Respiratory Illness (SRI) in Canada Public Health Agency of Canada (PHAC). $197,068.59 CAD. [Grants]


2012 – 2014  **Co-Principal Investigator.** Optimizing duration of antibiotic therapy for bloodstream infections. Physicians Services Incorporated Foundation (PSI). PI: Daneman N. $167,000.00 CAD. [Grants]


Invited Lectures and Presentation

International


2015 Sep 9  Invited Speaker. Consideration for clinical trials during outbreak. MERS-CoV Research Initiative Workshop, King Saud bin Abdulaziz University for Health Sciences and the King Abdullah International Research Center. Ar Riyāḍ, Saudi Arabia.


**Provincial**


2015 Jan 30  **Invited Speaker.** Canadian Critical Care Capacity. International Forum of Acute Care Trialists. Lake Louise, Alberta, Canada.


2014 Nov 26  **Invited Speaker.** Challenges in Treating Ebola Patients. Department of Medicine, Section of Critical Care Medicine, University of Manitoba. Winnipeg, Manitoba, Canada. Presenter(s): Fowler, Robert.


National


2015 Jun 13 Invited Lecturer. Reflections on the Ebola Epidemic: Did we get it right? Medecins sans frontiers Annual General Assembly. Montreal, Ontario, Canada. Presenter(s): Panel discussion moderated by Dr. Heather Culbert, president. With Dr. Robert Fowler, Univ. of Toronto & World Health Organization, Dr. José Antonio Bastos, President MSF-OCBA and Bruno Jochum, Executive Director MSF-OCG and Dr. Tim Jagatic, MSF fieldworker.


Local


2014 Oct 29  **Invited Speaker.** Tales of SARS, H1N1, MERS, and EBOLA. Critical Care Canada Forum. Toronto, Ontario, Canada. Presenter(s): Fowler RA.


2014 Oct 20  **Invited Speaker.** University of Toronto Interdepartmental Division of Critical Care Medicine Strategic Planning Day. Ebola Virus Disease. Toronto, Ontario, Canada.

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**Honours and Awards**

Dr. Shannon Goddard (Sunnybrook Hospital)

Peer-Reviewed Fundings


Invited Lectures and Presentation

Provincial


Local

Peer-Reviewed Publications

Journals


Manoel AL, Turkel-Parrella D, Duggal A, Murphy A, **McCredie VA**, Marotta TR, Management of Aneurysmal Subarachnoid Hemorrhage. The Cleveland Clinic Journal of Medicine, Cleveland Clinic Journal of Medicine 2015 Mar;82(3):177-192. Review article. **Coauthor or Collaborator.**

Abstracts


Book Chapters


Editorials

Peer-Reviewed Fundings

2015 – 2020  

2015 - 2020  

2012 – 2014  
**Principal Investigator.** Cerebral Tissue Oxygen Saturation During Blood Transfusion in Severe Traumatic Brain Injured Patients. Co-PIs: Baker AJ, Collaborators: Hare G, Rigamonti A. Physicians Services Inc. Foundation Health Research Grant. $46,500.00 CAD [Grants]

Invited Lectures and Presentation

Provincial

2015  
**Invited Speaker.** Do We Need Specialized Neurocritical Care? Department of Critical Care Medicine Grand Rounds, University of Calgary, Calgary, Canada.

2015  
**Invited Speaker.** Cerebral Tissue Oxygenation during a Blood Transfusion in Severe Traumatic Brain Injury. Neurosciences Grand Rounds, Winnipeg Health Sciences Centre, University of Manitoba, Canada.

2014  
**Invited Speaker.** Does Neurocritical Care work? Department of Critical Care Medicine Grand Rounds, University of Manitoba, Winnipeg, Canada.
National

2015  Invited Speaker. Do We Need Specialized Neurocritical Care? Department of Critical Care Medicine Grand Rounds, Kingston General Hospital, University of Queens, Canada.

Local


2015  Invited Speaker. Do We Need Specialized Neurocritical Care? Department of Critical Care Medicine Grand Rounds, Sunnybrook Health Sciences Centre, Toronto, Canada.

2015  Invited Speaker. Does Adult Neurocritical Care work? Department of Critical Care Medicine Research Rounds, SickKids, Toronto, Canada.


Honours and Awards

2014  The Garner King Award Best Scientific Poster at the Canadian Critical Care Forum, Toronto
Dr. Dominique Piquette (Sunnybrook Hospital)

Peer-Reviewed Publications

Journals


Piquette D, Moulton CA, LeBlanc VR. Creating learning momentum through overt teaching interactions during real acute episodes. Advances in Health Science Education. 2014 Nov. Principal Author.


Peer-Reviewed Fundings


2015 Mar – 2016 Mar  Principal Investigator. Effects of level of trainee autonomy during acute care episodes on learning of technical and non-technical skills to prevent harm. Co-PI: Brydges R, Lee C, Goffi A, Amaral AC, Ringsted C. Granting Agency: Sunnybrook Education Advisory Council (SEAC) and Education Research Unit (ERU) Education Research and Scholarship Grant Funds: $10,000.00 CAD [Grants]


Invited Lectures and Presentation

International

2014 Aug  Invited Speaker. AMEE Conference. Level of supervision and learning in acute care environment. Milan, Italy.

Provincial


National

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<tr>
<th>Date</th>
<th>Role</th>
<th>Event Description</th>
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<tr>
<td>2015 Jun 2</td>
<td>Invited Speaker</td>
<td>Competency by Design: Is it for us? Arts Slutsky Day, Interdepartmental Division of Critical Care Medicine, University of Toronto, Toronto, Ontario, Canada.</td>
</tr>
<tr>
<td>2015 May 28</td>
<td>Invited Speaker</td>
<td>Resident Autonomy: How much is enough? Challenges in designing medical education research. CCM Research Rounds, Department of Critical Care Medicine, Sick Kids Hospital. Toronto, Ontario, Canada.</td>
</tr>
<tr>
<td>2015 Apr 1</td>
<td>Invited Speaker</td>
<td>Inter-Professional Problem-Based Learning. The Gathering. Department of Critical Care Medicine, Sunnybrook Health Sciences Centre. Toronto, Ontario, Canada.</td>
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**Honours and Awards**

<table>
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<tr>
<td>2015 Apr</td>
<td>Teaching &amp; Learning in Medicine Editor's Choice Award, Best Paper 2015 in the Teaching &amp; Learning in Medicine Journal.</td>
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</table>
Dr. Louise Rose (Sunnybrook Hospital)

Peer-Reviewed Publications

Journals


Papers


Abstracts


Book Chapters


Peer-Reviewed Fundings


2015 **Co-Investigator.** Predictors and prevalence of difficulty accessing the mouth as a result of oral hygiene barriers in critically ill adults: an observational study. Canadian Association of Critical Care Nurses. Co-PI: Dale C, Smith O, Burry L, Pinto R. $2,500.00 CAD. [Grants]


2014 **Investigator.** Rose L, Adhikari N, Leasa D, Fergusson D, Fraser I, McKim D. Cough augmentation techniques to optimize weaning success and prevent reintubation for critically ill patients. CIHR Knowledge Synthesis Grant.$81,722.00 CAD. [Grants]

Investigator. Dale C, Angus J, Sutherland S, Yarascavitch C, Dev S, Rose L. Video-facilitated exploration and analysis of identified oral hygiene barriers, modifiable antecedents and recommended interventions for intubated and mechanically ventilated critically ill adults. A Pilot Study. Sigma Theta Tau Seed. $1,000.00 CAD. [Grants]

Investigator. Rose L, Fraser I, Istanboulian L, Malus E. The Prolonged-Ventilation Weaning Centre (PWC) Teleconsultation Service for Weaning from Prolonged Mechanical Ventilation. TEGH Community Based Research Fund. $9,991.00 CAD. [Grants]

Invited Lectures and Presentation

International


**Provincial**


**Local**


**Honours and Awards**

2015  Fellow of the American Academy of Nurses (FAAN)

2015  Council of Ontario University Programs in Nursing, Practice Award Scholarship
Dr. Gordon Rubenfeld  (Sunnybrook Hospital)

Peer-Reviewed Publications

Journals


Curtis JR, **Rubenfeld G**.”No escalation of treatment” as a routine strategy for decision-making in the ICU: con. Intensive Care Med. 2014 Sept;40(9);1374-6. **Senior Responsible Author.**


Amaral AC, Barros BS, Barros CC, Innes C, Pinto R, **Rubenfeld G**. Nighttime cross-coverage is associated with decreased intensive care unit mortality. A single-center study. Am J Respir Crit Care Med. 2014 Jun;189(11);1395-401. **Senior Responsible Author.**

CCSC Task Force on Critical Care Educational Pathways in Internal Medicine. Training internists to meet critical care needs in the United States: a consensus statement from the Critical Care Societies Collaborative (CCSC). Crit Care Med. 2014 May 1;42(5);1272-9. **Coauthor or Collaborator.**


CCSC Task Force on Critical Care Educational Pathways in Internal Medicine. Training internists to meet critical care needs in the United States: a consensus statement from the Critical Care Societies Collaborative (CCSC). Crit Care Med. 2014 May;42(5);1272-9. **Coauthor or Collaborator.**


Gershengorn HB, Garland A, Kramer A, Scales DC, **Rubenfeld G**, Wunsch H. Variation of arterial and central venous catheter use in United States intensive care units. Anesthesiology. 2014 Mar:120(3);650-64. **Coauthor or Collaborator.**

**Rubenfeld G**, Rhodes A. How many intensive care beds are enough? Intensive Care Med. 2014 Mar;40(3);451-2. **Principal Author.**


Peer-Reviewed Fundings


**Non-Peer-Review Funding**


**Invited Lectures and Presentation**

**International**

2015 Jun 10  **Visiting Professor.** If you’ve seen one ICU, you’ve seen one ICU: the case for evidence based ICU organization. NYU Department of Medicine Grand Rounds. New York, United States.


2015 Apr 24  **Invited Lecturer.** Plenary Lecture 1 - Why all our trials are failing, why we don’t believe the positive ones, and mortality is still falling. 2015 Singapore ANZICS Intensive Care Forum. Singapore.

2015 Mar 19  **Invited Speaker.** Speaker CON: Does it help to know the patient has ARDS? - Does it help to know the patient has ARDS? International Symposium on Intensive Care and Emergency Medicine. Brussels, Belgium.


2014 Dec 10  **Invited Speaker.** Joint Pulm/CC and Surg CC visit at University of Pennsylvania. Pulmonary Grand Rounds, “ARDS: If Belin is the answer, what is the question?; End of life care in the SICU: can intensivists and surgeons see eye to eye? Pennsylvania, United States.

2014 Sep 27 – Oct 5  **Presenter.** 27th Annual European Society of Intensive Care Medicine Conference. LUNG SAFE Steering Committee Meeting; ESICM/SCCM Guideline Revision Task Force Barcelona; Spain


**Local**


2015 Jan 26  **Invited Lecturer.** How to Get Published (an editor’s perspective). Collaborative Program in Resuscitation Sciences (CPRS), University of Toronto. Toronto, Ontario, Canada.


2014 Apr 28 - 29  **Invited Speaker.** Research in Motion 2014, Emergency Medicine, University of Toronto. Round Table Discussion; Scientific Sessions 5: Curbside Research. Toronto, Ontario, Canada.

2014 Feb 28  **Participant.** 2014 Trauma Conference, Sunnybrook Health Sciences Centre. Toronto, Ontario, Canada.
Dr. Damon Scales  (Sunnybrook Hospital)

Peer-Reviewed Publications

Journals


Gershengorn HB, Garland A, Kramer A, Scales D, Rubenfeld G, Wunsch H. Variation of arterial and central venous catheter use in United States intensive care units. Anesthesiology. 2014 Mar;120(3);650-64. Coauthor or Collaborator


Peer-Reviewed Fundings


2012 Jul – 2015 Jun  Principal Investigator. Translating Evidence into Practice for Patients with Anoxic Brain Injury. Physicians Services Incorporated Foundation (PSI). $300,000.00 CAD. [Grants]


2009 Jul – 2014 Jun  **Principal Investigator.** The Impact of an Aging Population on the Delivery of Critical Care Services in Canada Canadian Institutes of Health Research (CIHR). $300,000.00 CAD. [Grants]
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<tr>
<td>2015 May</td>
<td>Presenter</td>
<td>The Optimal VAsopressor TIltratiON (OVATION) Pilot Randomized Controlled Trial, [A6418].</td>
<td>American Thoracic Society 2015 International Conference.</td>
</tr>
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</table>
2014 Apr 15-17 Invited Speaker. Saudi Arabia Patient Safety Forum, King Saud bin Abdulaziz University for Health Sciences (KSAU - HS). Quality of Care be Improved Using Collaborative Networks?: Improving Quality in Multiple ICUs; When Does Quality Improvement Become Research?: Study Designs for Quality and Safety; Publishing Quality Improvement Manuscripts

2014 Mar 3-7 Invited Speaker. American Thoracic Society. MECOR program. Study designs; Bias, Confounding and Chance Methods; Sample Size and Power Methods; Approaches to confounding Methods; Diagnosis Methods; Don't make these mistakes. Bogor, Indonesia.


Provincial


Local


2014 Jun 5  
**Invited Speaker.** Sunnybrook Critical Challenges Conference. Proning debate. Toronto, Ontario, Canada.

2014 Apr 28  
**Invited Speaker.** Division of Emergency Medicine, University of Toronto Resuscitation in Motion Conference (RIM) - Innovation in Resuscitation Science Research. Toronto, Ontario, Canada.

2014 Jan 14  
**Invited Speaker.** Department of Cardiology Research Rounds, Sunnybrook Health Sciences Centre. Update on Post-Cardiac Arrest Care. Toronto, Ontario, Canada.
Dr. Taz Sinuff (Sunnybrook Hospital)

Peer-Reviewed Publications

Journals


Piquette D, Tarshis J, **Sinuff T**, Fowler, RA, Pinto R, LeBlanc VR. Impact of Acute Stress on Resident Performance during Simulated Resuscitation Episodes: A Prospective Randomized Cross-Over Study. Teach Learn Med. 2014: 26(1);9-16. **Coauthor or Collaborator.**


**Peer-Reviewed Fundings**

<table>
<thead>
<tr>
<th>Period</th>
<th>Role</th>
<th>Title</th>
<th>Principal Investigator (PI)</th>
<th>Collaborators</th>
<th>Budget (CAD)</th>
<th>Notes</th>
</tr>
</thead>
</table>
**Dr. Terry Smith  (Sunnybrook Hospital)**

**Peer-Reviewed Fundings**

2013 – present  **Primary Investigator.** Retrospective burden of illness analysis of massively transfused trauma patients. Novo Nordisk Canada. Manuscript in preparation. $20,000.00 CAD. [Grants]

2013 – present  **Co-Investigator.** Pharmacoeconomic analysis of burden of illness of massively transfused trauma patients. Manuscript in preparation. $40,000.00 CAD. [Grants]
**Dr. Lorraine Tremblay (Sunnybrook Hospital)**

**Peer-Reviewed Funding**

2014 Apr – present  **Co-Investigator.** The impact of an institutional multidisciplinary tracheostomy team on patient care and clinical outcomes: An observational before and after cohort study. Sunnybrook General Surgery AEF Grant. PIs: Chu P, Chapman M. Collaborator(s): Tien H. $9,750.00 CAD. [Grants]

2012 May – present  **Co-Investigator.** The impact of an institutional multidisciplinary tracheostomy team on patient care and clinical outcomes: An observational before and after cohort study. Sunnybrook AFP Association. PIs: Chu P, Chapman M. Collaborator(s): Tien H. $10,000.00 CAD. [Grants]

Dr. Hannah Wunsch (Sunnybrook Hospital)

Peer-Reviewed Publications

Journal Articles


Sjoding MW, Prescott HC, **Wunsch H**, Iwashyna TJ, Cooke CR, Hospitals with High Intensive Care Utilization Provide Lower Quality Pneumonia Care Critical Care Medicine 2015 Mar 10. [Epub ahead of print]. **Coauthor or Collaborator**.

Hua M, Gong MN, Brady J, **Wunsch H**. Early and late unplanned rehospitalizations for survivors of critical illness. Crit Care Med. 2015 Feb;43(2):430-8. **Senior Responsible Author**.


Moitra VK, Guerra C, Linde-Zwirble WT, **Wunsch H**. Relationship Between ICU Length of Stay and Long-term Mortality for Elderly ICU Survivors, Critical Care Medicine. 2015. **Senior Responsible Author**.

Kramer AA, Gershengorn, HB, **Wunsch H**, Zimmerman J. Variations in case-mix adjusted duration of mechanical ventilation among intensive care units, Critical Care Medicine. 2015. **Coauthor or Collaborator**.


Prin M, Harrison D, Rowan K, **Wunsch H**. Epidemiology of admissions to 11 stand-alone high-dependency care units in the UK, Intensive Care Medicine 2015; 41(11): 1903-10. **Senior Responsible Author**.

Guerra C, Hua M, **Wunsch H**. Risk of a Diagnosis of Dementia for Elderly Medicare Beneficiaries after Intensive Care, Anesthesiology 2015; 123(5): 1105-12. **Senior Responsible Author**.

Hope AA, Gong MN, Guerra C, **Wunsch H**. Frailty Before Critical Illness and Mortality for Elderly Medicare Beneficiaries, Journal of the American Geriatrics Society 2015; 63(6): 1121-1128. **Senior Responsible Author**.

Gershengorn HB, Keene A, Dzierba AL, **Wunsch H**. The Association of Antibiotic Treatment Regimen and Hospital Mortality in Patients Hospitalized with Legionella Pneumonia, Clinical Infectious Diseases 2015; 60 (11): e66-e79. **Senior Responsible Author**.
Creutzfeldt C, **Wunsch H**, Curtis JR, Hua M. Prevalence and Outcomes of Patients meeting Palliative Care Triggers in Neurological Intensive Care Units, Neurocritical Care. 2015. **Coauthor or Collaborator.**

Moitra V, Patel MK, Darrah D, **Wunsch H**. Low Dose Ketamine in Chronic Critical Illness. Journal of Critical Care. 2015. **Senior Responsible Author.**

Prin M, **Wunsch H**. The role of stepdown beds in hospital care. Am J Respir Crit Care Med. 2014 Dec 1. 190(11):1210-6. **Senior Responsible Author.**


Gershengorn HB, Garland A, Scales D, Rubenfeld G, Kramer A, **Wunsch H**. Variation of Arterial and Central Venous Catheter Use in United States Intensive Care Units. Anesthesiology. 2014 Mar. 120 (3): 650-64. **Senior Responsible Author.**

Gershengorn HB, Kahn JM, **Wunsch H**. Temporal trends in the use of parenteral nutrition in critically ill patients. Chest. 2014 Mar 1. 145(3):508-17. **Senior Responsible Author.**

Brady JE, **Wunsch H**, Dimaggio C, Lang BH, Giglio J, Li G. Prescription Drug Monitoring and Dispensing of Prescription Opioids. Public Health Reports. 2014 Mar. 129(2): 139-147. **Coauthor or Collaborator.**


Hua MS, Li G, Blinderman CD, **Wunsch H**. Estimates of the need for palliative care consultation across united states intensive care units using a trigger-based model. Am J Respir Crit Care Med. 2014 Feb 15. 189(4):428-36. **Senior Responsible Author.**


**Editorials, Letters, and Review Chapters**

Wilcox ME, **Wunsch H**. Identifying and targeting intensive care unit survivors at risk for excess morbidity and premature death. Ann Am Thorac Soc. 2015 Feb;12(2):243-4. **Senior Responsible Author.**


de Lange DW, Wunsch H, Kesecioglu J. Comparing intensive care units by size or level. Intensive Care Med. 2015 Feb;41(2):357-9. **Senior Responsible Author.**

Prin M, **Wunsch H**. The Role of Stepdown Beds in Hospital Care, American Journal of Respiratory & Critical Care Medicine 2014; 20(6):673-80. **Senior Responsible Author.**

**Wunsch H**. Untangling the Healthcare Use Patterns of Severe Sepsis Survivors [Editorial], American Journal of Respiratory and Critical Care Medicine, 2014; 190(1):7-8. **Principal Author.**
Peer-Reviewed Fundings

2015 – 2020 **Mentor.** NIH/NIA. K08 [Beeson Award]. Determinants of Critical Care Intensity for Hospitalized Older Adults: the Effect of Hospital-based Palliative Care Services. $862,510.00 CAD. [Grants]

2015 – 2017 **Co-Investigator.** Changes in Work and Earnings After Heart Attack, Stroke and Cardiac Arrest Heart & Stroke. $245,000.00 CAD. [Operating Grants]

2014 – 2017 **Principal Investigator.** Identifying Risk Factors for and Outcomes following Rehospitalizations for Elderly Critically Ill Patients. CIHR. $189,225.00 CAD. [Operating Grants]


2011 – 2014 **Principal Investigator.** Treatment Intensity and Outcomes for Critically Ill Patients. Columbia University, Irving Scholars Program, New York, USA. $180,000.00 USD. [Grants]


Invited Lectures and Presentation

**International**

2015 Oct **Invited Speaker.** Delirium: which medications to avoid; Big Data. European Society of Intensive Care Medicine, Berlin, Germany

2015 Oct **Invited Speaker.** Post-Intensive Care Syndrome. Post-graduate course, European Society of Intensive Care Medicine, Berlin, Germany

2015 Oct **Invited Speaker.** Randomization Strategies and Alternatives. Post-graduate course, European Society of Intensive Care Medicine, Berlin, Germany
2015 Sept  Invited Speaker. The role of Stepdown Beds in Hospital Care Management Seminar at the Joint Annual Meeting 2015 of the Swiss Society of Intensive Care Medicine SSICM, Swiss Society for Infectious Diseases SSI, Swiss Society for Emergency Medicine SGNOR/SSMUS and the Swiss Society for Hospital Hygiene SSHH, Interlaken, Switzerland

2015 Jun  Invited Speaker. Triaging Patients for the ICU. Grand Rounds, Department of Anesthesiology, UCSF, San Francisco, California

2015 Jun  Invited Speaker. Assessing Long-term Outcomes after Critical Illness Research Seminar, Department of Anesthesiology, UCSF, San Francisco, California


2015 Mar  Invited Speaker. Triaging High-Risk Surgical Patients; Pros and Cons of Separate Stepdown Beds; Who needs palliative care in the ICU?; Detecting variation in care; Psychiatric Disease after Critical Illness; Barriers to De-adoption of what we like. International Society of Intensive Care & Emergency Medicine, Annual Meeting, Brussels, Belgium

2015 Jan  Invited Speaker. ICU Occupancy Rates and Beds per 100,000: Are These Relevant Parameters? Society of Critical Care Medicine, Annual Meeting, Phoenix, Arizona


2014 Sep 4  Invited Speaker. Triaging Patients for the ICU. Grand Rounds, Department of Anesthesiology, Massachusetts General Hospital, Harvard Medical School. Boston, Massachusetts, United States.

2014 Jun 5  Invited Speaker. Critical Illness in the Continuum of Disease and Disability. Grand Rounds, Critical Care Medicine, Columbia University. New York, United States.


2014 Jan 10  **Invited Speaker.** Critical Care Top Five Taskforce for Choosing Wisely – Presentation of Selected Recommendations. Society of Critical Care Medicine. San Francisco, California, United States.

**Provincial**

2015 Oct  **Invited Speaker.** Use of Quality Metrics to Enhance ICU Care. Chest, Montreal, Quebec, Canada

**Local**

2015 Oct  **Invited Speaker.** ICU Strain: Using Intermediate Care Beds
Critical Care Canada Forum, Toronto, ON, Canada

2015 Oct  **Invited Speaker.** Use of Intensive Care After Surgery – International Comparisons Anesthesia Professor’s Rounds for Fellows, Department of Anesthesia, University of Toronto

2014 Oct 30-31  **Invited Speaker.** Misled...by occupancy data; Sepsis: why all the variation in outcomes?; When to think about palliation. Critical Care Canada Forum. Toronto, Ontario, Canada.

**Honours and Awards**

2014  Presidential Citation. Society of Critical Care Medicine. Dinstinction.
**Dr. Michael Detsky (Mount Sinai Hospital)**

**Peer-Reviewed Publications**

**Journal Articles**

Marhong JD, Munshi L, **Detsky ME**, Telesnicki T, Fan E. Mechanical ventilation during extracorporeal life support (ECLS): A systematic review. Intensive Care Medicine. 2015 Mar 10. **Coauthor or Collaborator.**


**Abstracts**

Peer-Reviewed Publications

Journal Articles


Al-Awamer A, Downar J. Developing a palliative care service model for Muslim Middle Eastern countries. Support Care Cancer. 2014 Jul 17. Senior Responsible Author.


Book Chapters

Downar J, Bernstein M. End-of-Life Care. Neurosurgical Ethics in Practice: Value-Based Medicine 2014; 89-100. Principal Author.

Clinical Care Guidelines


Editorials

**Peer-Reviewed Fundings**

<table>
<thead>
<tr>
<th>Year</th>
<th>Role</th>
<th>Title</th>
<th>Funding Body</th>
<th>Collaborators</th>
<th>Amount</th>
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<tbody>
<tr>
<td>2014 Jul - 2015 Jun</td>
<td>Co-Investigator</td>
<td>Heart and Stroke Foundation of Ontario (The) (HSFO), Bridge Funding Program. Pls: You J, Ross H.</td>
<td>Collaborator(s): Demers C, Macliver J</td>
<td>$70,000.00 CAD</td>
<td>[Grants]</td>
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<tr>
<td>2012 Jul – 2014 Jun</td>
<td>Principal Investigator</td>
<td>Are standardized patient simulation sessions more effective than didactic teaching alone for improving the skill and comfort level of medical residents when discussing goals of care and resuscitation? Royal College of Physicians and Surgeons of Canada. Collaborator(s): Knickle K, McNaughton N, McDonald-Blumer H.</td>
<td></td>
<td>$22,642.50 CAD</td>
<td>[Grants]</td>
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**Invited Lectures and Presentation**

**International**

2015 Sep 19 **Invited Speaker.** Cardiac Palliation. Electrophysiology Cornerstone Workshop, Minneapolis, Minnesota, United States.


2014 Sept 5 **Invited Speaker.** Adult Congenital Heart Association Annual Meeting 2014. How do we involve Palliative Care Services in the management of our patient? The role of PC in Congenital Heart Disease. Chicago, Illinois, United States.


**Provincial**

2015 Oct 23 **Presenter.** Standardized patient simulation more effective than didactic teaching for improving residents’ communication skills when discussing goals of care and resuscitation: A randomized controlled trial. International Conference on Residency Education, Vancouver, British Columbia, Canada.


2015 Jun 2 **Presenter.** Palliative Care in the ICU. Critical Care Network (Interior British Columbia), British Columbia, Canada. Webinar covering aspects of Palliative Care provision in the ICU.


2015 Feb 26 **Invited Speaker.** Palliative Care in the ICU. Canadian Critical Care Conference 2015, Whistler, British Columbia, Canada.


2015 Jan 23 **Presenter.** Realistic 80 Communication Intervention. Improving Compassion in Critical Care (ICCARE) Group, Calgary, Alberta, Canada.

2015 Jan 23 **Presenter.** ICU BEREAVE- Designing a bereavement screening and support service. Improving Compassion in Critical Care (ICCARE) Group, Calgary, Alberta, Canada.


2014 Oct 15 **Speaker.** Societe Radio-Canada. Aide Medicale a Mourir au Canada Interviewed for news item on Supreme Court Hearing in Carter vs. Canada.

2014 Oct 9 **Speaker.** La Presse. Les Canadiens Appuient L’Aide Medicale a Mourir.


2014 Aug 7 **Speaker.** Postmedia News. "Family presence during hospital resuscitation a growing trend in Canada" Describing policies to allow families to witness cardiopulmonary resuscitation, and potential concerns about them.

2014 Aug 7 **Speaker.** "Physician-assisted death and euthanasia in Canada: should it be legal or banned?" Review of current laws and cases relevant to Assisted Death in Canada.


2014 Apr 8  Speaker. Corus entertainment, Canadian Broadcasting Corporation, NL Broadcasting Ltd. The need for protocols for assisted death in Canada. A series of 10-minute interviews about the CMAJ article published this week.

2014 Apr 7-8  Visiting Professor. Cancer Care Manitoba. Nonbeneficial Treatment in Canada following the Rasouli Decision; Quality and Everything that Lies between; Physician-Assisted Death in Canada: Moving Beyond “Yes” and ”No”. Winnipeg, Manitoba, Canada.

2014 Apr 7  Speaker. Postmedia News. ‘Physician-assisted death is going to become legal’: Canada’s right-to-die debate almost over, doctors say.

2014 Apr 7  Speaker. Canadian Press. MDs need to prepare for eventual legalized assisted suicide, some doctors argue.
<table>
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<tr>
<th>Date</th>
<th>Title</th>
<th>Location</th>
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<tbody>
<tr>
<td>2015 Nov 18</td>
<td>Invited Speaker. Physician Assisted Death in Canada: Where we are, where we are going. McMaster University Division of Palliative Care, Hamilton, Ontario, Canada.</td>
<td>Invited Seminar. Physician Assisted Death. McMaster University Division of Palliative Care Grand Rounds, Hamilton, Ontario, Canada.</td>
</tr>
<tr>
<td>2015 Sep 22</td>
<td>Invited Speaker. Palliative Care in the ICU. Royal Victoria Hospital (Barrie), Barrie, Ontario, Canada.</td>
<td>Invited Seminar. Palliative Care in the ICU. Royal Victoria Hospital (Barrie), Barrie, Ontario, Canada.</td>
</tr>
</tbody>
</table>

2015 Jan 19  Invited Speaker. Palliative Care in the ICU. Quinte Health Care Corporation, Trenton, Ontario, Canada.


2014 Dec 4  Speaker. Canadian Broadcasting Corporation. Palliative Care vs Assisted Suicide: A False Dichotomy?

2014 Nov 6  Speaker. The Globe and Mail. The story behind the CMA’s overwhelming change on assisted death.


Local

2015 Dec 2  Invited Speaker. Physician Assisted Death in Canada: Where we are, where we are going. Joint Centre for Bioethics- 20th Anniversary Education Day, Toronto, Ontario, Canada. Presenter(s): Dr. Philip Hebert, Dr. Wayne Sumner, Dr. Monica Branigan, Dr. James Downar.


2015 Jun 5  Invited Speaker. “How do we involve Palliative Care in the management of our patients?”. 25th International Symposium on Adult Congenital Heart Disease, Toronto, Ontario, Canada. Breakout workshop on Advance Care Planning

2015 May 8  Speaker. The Ethics of ECLS. UHN Extracorporeal Life Support Symposium, Toronto, Ontario, Canada.


2015 Apr 10  Presenter. Palliative Inotropes for End-Stage Heart Failure. Toronto, Ontario, Canada.

2015 Apr 7  Speaker. Department of Emergency Medicine Grand Rounds: Palliative Care in the ER. Department of Emergency Medicine, University of Toronto, Toronto, Ontario, Canada.

2015 Mar 30  Presenter. Behavioural Sciences and Health Research Rounds: ICU BEREAVE. Department of Psychosocial Oncology, UHN, Toronto, Ontario, Canada.
2015 Mar 30 **Speaker.** Physician Assisted Death: Where do we go from here. Centre for Ethics, University of Toronto, Toronto, Ontario, Canada. Presenter(s): James Downar, Jocelyn Downie, Wayne Sumner.

2015 Mar 5 **Speaker.** Perspectives on Advance Care Planning. Toronto General Hospital Professional Practice Rounds, Toronto, Ontario, Canada. Presenter(s): Anstey K, Downar J.


2015 Feb 6 **Speaker.** Assisted Death in Canada. CBC News Network. Canadian Broadcasting Corporation, Canada.


2015 Speaker. Innovative Palliative Care Models. Canadian Medical Association. Canada. A report highlighting "Palliative Care physician leaders" across the country to show different models of Palliative Care provision.


<table>
<thead>
<tr>
<th>Date</th>
<th>Role</th>
<th>Event/Activity</th>
<th>Location</th>
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<tbody>
<tr>
<td>2014 Sept 19</td>
<td>Lecturer.</td>
<td>Grand Rounds, Psychosocial Oncology and Palliative Care, UHN.</td>
<td>Toronto, Ontario, Canada.</td>
</tr>
<tr>
<td>2014 Sept 18</td>
<td>Lecturer.</td>
<td>University of Toronto Division of Palliative Care Grand Rounds.</td>
<td>Toronto, Ontario, Canada.</td>
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<tr>
<td>2014 Dec 17</td>
<td>Invited Speaker.</td>
<td>UHN Congenital Cardiac Centre- Academic Teaching Rounds.</td>
<td>Toronto, Ontario, Canada.</td>
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<tr>
<td>2014 Jan 21</td>
<td>Invited Speaker.</td>
<td>UHN/MSH Division of Rheumatology. Articulating a need for Palliative Care in the Rheumatology Population. Weekly Divisional Rounds for Staff and Residents.</td>
<td>Toronto, Ontario, Canada.</td>
</tr>
<tr>
<td>Date</td>
<td>Award Description</td>
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<tr>
<td>2014 Jul - 2015 Jun</td>
<td><strong>Wightman-Berris Award for Teaching Excellence</strong>, Dept of Medicine, Faculty of Medicine, University of Toronto. (Postgraduate MD).</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Peer-Reviewed Publications

Journal Articles


Fan E, Herridge MS. Finally, a time and place for electrophysiological testing in critically ill patients? Intensive Care Med. 2015 Dec 1;41(12):2221-3. Principal Author.


Del Sorbo L, Goligher E, Fan E, Slutsky AS. Setting Mechanical ventilation in ARDS patients during VV-ECMO: where are we? Minerva Anestesiol. 2014 Oct 10. **Coauthor or Collaborator.**

Marhong J, Fan E. Carbon dioxide in the critically ill: too much or too little of a good thing? Respir Care. 2014 Oct 1:59(10);1597-605. **Senior Responsible Author.**


Marhong JD, Telesnicki T, Munshi L, Del Sorbo L, Detsky M, Fan E. Mechanical ventilation during extracorporeal membrane oxygenation. An international survey. Ann Am Thorac Soc. 2014 Jul 1:11(6);956-61. **Senior Responsible Author.**


Del Sorbo L, Cypel M, Fan E. Extracorporeal life support for adults with severe acute respiratory failure. Lancet Respir Med. 2014 Feb 1;2(2):154-64. **Senior Responsible Author.**


Durbin CG Jr, Blanch L, Fan E, Hess DR. Respiratory Care year in review 2013: airway management, noninvasive monitoring, and invasive mechanical ventilation. Respir Care. 2014 Apr 1;59(4);595-606. **Coauthor or Collaborator.**

Rose L, Fowler RA, Goldstein R, Katz S, Leasa D, Pedersen C, McKim D, CANuVENT Group. Patient transitions relevant to individuals requiring ongoing ventilatory assistance: a Delphi study. Can Respir J. 2014 Jan 1;21(5); 287-92. **Coauthor or Collaborator.**

**Comments**

Fan E, Brodie D. Higher volumes, better outcomes: the end or just the beginning of the story for extracorporeal membrane oxygenation? Am J Respir Crit Care Med. 2015 Apr 15;191(8):864-6. **Principal Author.**

**Editorials**

Fan E, Brochard L. Underuse versus equipoise for low tidal volume ventilation in acute respiratory distress syndrome: is this the right question?*. Crit Care Med. 2014 Oct 1;42(10);2310-1. **Principal Author.**

Fan E, Pham T. Extracorporeal membrane oxygenation for severe acute respiratory failure: yes we can! (But should we?). Am J Respir Crit Care Med. 2014 Jun 1;189(11);1293-5. **Co-Principal Author.**

Fan E, Brodie D, Slutsky AS. Ventilation in acute respiratory distress syndrome: less may be more, in more than one way. Crit Care Med. 2014 Jun 1;42(6);1581-2. **Principal Author.**

Munshi L, Fan E, Del Sorbo L. Prone position during ECMO: a turn of events? Minerva Anestesiol. 2014 Mar 1;80(3);281-3. **Coauthor or Collaborator.**

Stephens R, Fan E. Choosing wisely - when to mend a broken heart with ECMO? Crit Care. 2014 Feb 20;18(1);112. **Senior Responsible Author.**

Goddard SL, Fan E. "Only few find the way, some don't recognize it when they do ..."--can we "observe" causality? Crit Care Med. 2014 Jan 1;42(1);208-9. **Senior Responsible Author.**

**Letters to the Editor**

Munshi L, Walkey A, Fan E. Reply: extracorporeal life support. Ann Am Thorac Soc. 2014 Jul 1.11(6);993. **Senior Responsible Author.**
## Peer-Reviewed Fundings

<table>
<thead>
<tr>
<th>Date Range</th>
<th>Role</th>
<th>Description</th>
<th>Grantor</th>
<th>Amount USD/CAD</th>
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</thead>
<tbody>
<tr>
<td>2015 Jul - 2020 Jun</td>
<td>Principal Investigator</td>
<td>Strategies for Optimal Lung Ventilation in ECMO for ARDS: The SOLVE ARDS Study.</td>
<td>Canadian Institutes of Health Research (CIHR), New Investigator Award.</td>
<td>$300,000.00 CAD</td>
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<tr>
<td>2015 Apr - 2017 Mar</td>
<td>Principal Investigator</td>
<td>Gas exchange extracorporeal techniques: The XXL Study.</td>
<td>MSH-UHN AMO, AFP Innovation Fund.</td>
<td>$130,950.00 CAD</td>
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<tr>
<td>2015 Jan - 2015 Dec</td>
<td>Principal Investigator</td>
<td>The Impact of Oxygen and Carbon Dioxide Thresholds on Mortality during ECLS.</td>
<td>Extracorporeal Life Support Organization (ELSO), Research Grant.</td>
<td>$5,000.00 USD</td>
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<tr>
<td>2014 Oct - 2016 Sep</td>
<td>Co-Investigator</td>
<td>Frequency and Screening and SBT Technique Trial: The FAST Trial.</td>
<td>Canadian Institutes of Health Research (CIHR), Open Operating Grant.</td>
<td>$158,000.00 CAD</td>
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<tr>
<td>2014 Aug - 2015 Jul</td>
<td>Co-Investigator</td>
<td>Liberation from Mechanical Ventilation and Screening Frequency Trial: The RELEASE Trial.</td>
<td>Ontario Thoracic Society (OTS), Grant-in-Aid.</td>
<td>$50,000.00 CAD</td>
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<tr>
<td>2014 Jul - 2016 Jun</td>
<td>Co-Investigator</td>
<td>Screening Elderly Patients for Inclusion in a Weaning Trial: The SENIOR Trial.</td>
<td>TechValueNet (TVN), Catalyst Grant.</td>
<td>$100,000.00 CAD</td>
</tr>
<tr>
<td>2014 Apr - 2016 Mar</td>
<td>Principal Investigator</td>
<td>The Importance of Spontaneous Breathing Efforts in Mechanically Ventilated Patients with Acute Respiratory Distress Syndrome.</td>
<td>Physician Services Incorporated (PSI) Foundation.</td>
<td>$170,000.00 CAD</td>
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<tr>
<td>2014 Apr - 2015 Oct</td>
<td>Co-Investigator</td>
<td>Intensive Care Rehabilitation Study (ICURuS): Barriers to Early Physical Rehabilitation in the ICU – A Delphi Study.</td>
<td>Canadian Institutes of Health Research (CIHR).</td>
<td>$88,438.00 CAD</td>
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<tr>
<td>2013 Dec - 2015 Nov</td>
<td>Principal Investigator</td>
<td>Strategies for Optimal Lung Ventilation in ECMO for ARDS: The SOLVE ARDS Study.</td>
<td>Physician Services Incorporated (PSI) Foundation.</td>
<td>$57,500.00 CAD</td>
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Non-Peer-Reviewed Fundings

2015 May - 2016 May  Principal Investigator. The International ECMONet Registry Project. Hearts of ECMO. $15,000.00 USD. [Donations].


2013 Oct - 2016 Sep  Principal Investigator. Prospective Evaluation of the Vision Alpha in Adults with Acute Lung Injury. Nihon Kohden Corporation. $297,000.00 CAD [Industrial Grants]

Invited Lectures and Presentation

International

2015 Dec 16  Invited Lecturer. Refractory Hypoxemia in ARDS. Cook County Trauma Rounds, Chicago, Illinois, United States.


2015 Dec 8  Invited Speaker. ECMO: You Are Doing It All Wrong (Pro-Con Debate). UK Intensive Care Society State of the Art Meeting, London, City of, United Kingdom.


2015 Nov 8  Invited Speaker. ECLS to Facilitate Lung Protection in ARDS. 61st Annual American Association for Respiratory Care (AARC) Congress, Tampa, Florida, United States.

2015 Nov 7  Invited Speaker. Spontaneous Breathing in ARDS. 61st Annual American Association for Respiratory Care (AARC) Congress, Tampa, Florida, United States.
2015 Sep 19  **Invited Speaker.** Mechanical Ventilation During VV ECMO. 28th Annual ELSO Conference, Atlanta, Georgia, United States.


2015 Jun 16  **Facilitator.** ECMO - Future Studies. Collaborative Clinical Trials in Intensive Care Medicine Conference, Prato, Italy.

2015 Jun 15  **Invited Speaker.** ICU Recovery - International Practice. Collaborative Clinical Trials in Intensive Care Medicine Conference, Prato, Italy.


2015 May 9  **Invited Speaker.** Superprotective Ventilation with ECCO2R: Goals, Complications, Future Directions. EuroELSO 2015 Meeting, Regensburg, Germany.


2015 Mar 19  **Invited Speaker.** Predicting VV ECMO Success. 35th International Symposium of Intensive and Emergency Medicine, Brussels, Belgium.

2015 Mar 19  **Invited Speaker.** How to Maximize Lung Protection with Extracorporeal Support. 35th International Symposium of Intensive and Emergency Medicine, Brussels, Belgium.

2015 Mar 17  **Invited Speaker.** ICUAW - Outcomes. 35th International Symposium of Intensive and Emergency Medicine, Brussels, Belgium.

2015 Mar 17  **Invited Speaker.** Refractory Hypoxemia in ARDS. 35th International Symposium of Intensive and Emergency Medicine, Brussels, Belgium.

2015 Jan 29  **Invited Speaker.** From Good to Great? Customizing Mechanical Ventilation in ARDS. Columbia University/New York Presbyterian Hospital, New York, New York, United States.

2015 Jan 23  **Distinguished Speaker.** Wake Up, Get Up, and Get Out Early: ICU-acquired Weakness and Early Mobility in the ICU. Critical Care Reviews Conference, Belfast, United Kingdom.

2014 Dec 10  Invited Speaker. American Association for Respiratory Care Approaches to Refractory Hypoxemia - APRV and HFOV; PEEP in ARDS Must Be Optimized Using Transpulmonary Pressure - Not So Fast. Las Vegas, Nevada, United States.


2014 Jun 6  Invited Speaker. Universita degli Studi di Padova. Department of Medicine. Refractory Hypoxemia and Severe ARDS. Padova, Italy.


National

Local

2015 May 4  **Keynote Speaker.** Managing ARDS - An Important “Turn” of Events. Evolutions in Critical Care 2015 - CACCN Toronto Chapter, Toronto, Ontario, Canada.


2014 Oct 29  **Chair.** Canada Critical Care Forum. Severe Acute Respiratory Failure - A Masterclass. Toronto, Ontario, Canada.


Honours and Awards

2014  Clinical Teaching Award. Toronto General Hospital - Interdepartmental Division of Critical Care Medicine, University of Toronto.
**Peer-Reviewed Publications**

**Journal Articles**

Goligher EC, Kavanagh BP, Rubenfeld GD, **Ferguson ND**. Physiologic Responsiveness Should Guide Entry into Randomized Controlled Trials. Am J Respir Crit Care Med. 2015 Dec 15;192(12):1416-9. **Senior Responsible Author.**


**Ferguson ND**, Thompson BT. Prone positioning and neuromuscular blocking agents are part of standard care in severe ARDS patients: no. Intensive Care Medicine. 2015 Dec 1;41(12):2198-200. **Principal Author.**


Burry L, Rose L, McCullagh IJ, Fergusson DA, **Ferguson ND**, Mehta S. Daily sedation interruption versus no daily sedation interruption for critically ill adult patients requiring invasive mechanical ventilation. Cochrane Database of Systematic Reviews. 2014:7. **Coauthor or Collaborator.**
Abstracts


Book Chapters


Editorials


Ferguson ND. High-Frequency Oscillatory Ventilation for Adults: Handle with Care. Critical Care. 2014:18(4);464.Principal Author.

Peer-Reviewed Fundings


Invited Lectures and Presentation

International


2014 Nov 5  **Visiting Professor.** Department of Critical Care Medicine. University of Pittsburgh Medical Center. High-Frequency Oscillatory Ventilation for Early Severe ARDS - Grand Rounds; Does This Patient Have ARDS?... and Does it Matter? - Research Rounds. Pennsylvania, Pittsburgh, United States.

2014 Sept 18-19  **Invited Speaker.** 24th International Congress of the Argentinian Intensive Care Society. Diagnosis of ARDS According to the Berlin Definition; High-Frequency Oscillatory Ventilation – Do We Need More Studies?; 15 Years of Clinical Trials in ARDS – What Progress Have We Made?; Setting PEEP - Is the ARDSNet PEEP / FiO2 Table Still the Reference Standard?. Mar del Plata, Buenos Aires, Argentina.

2014 Jul 9  **Invited Speaker.** High-Frequency Oscillation Experts’ Conference. Saitama Chamber of Commerce & Industry. OSCILLATE Trial Results. Saitama, Tokyo, Japan.


2014 May 1  **Invited Speaker.** University of Sao Paulo and University of Toronto. INCOR Respiratory Symposium Monitoring and Improving Diaphragm Function During Mechanical Ventilation. Sao Paulo, Brazil.

2014 Mar 18-19  **Invited Speaker.** 34rd International Symposium on Intensive Care and Emergency Medicine  ECMO – Latest Fad or Here to Stay?; HFOV – What Went Wrong in the Clinical Trials?; ARDS Diagnosis: The Berlin Definition is Useful; New Approaches to Clinical Trials: QALYs as an Outcome; Monitoring Diaphragm Function; Should We Abandon Concepts of ARDS and Sepsis? – Round Table. Brussels, Belgium.

**Local**


2014 May 7  **Invited Speaker.** Canadian Association of Critical Care Nurses Toronto Chapter, EVOLUTIONS 2014The Future of Critical Care Medicine: Challenges & Opportunities. Toronto, Ontario, Canada.
**Dr. Ewan Goligher (Mount Sinai Hospital)**

Peer-Reviewed Publications

**Journal Articles**


**Goligher EC**, Kavanagh BP, Rubenfeld GD, Ferguson ND. Physiologic Responsiveness Should Guide Entry into Randomized Controlled Trials. Am J Respir Crit Care Med. 2015;192(12):1416-9. **Principal Author.**


Brochard L, Chen L, **Goligher E**. Optimum positive end-expiratory pressure 40 years later. Indian J Crit Care Med. 2014;18(8):494-6. **Senior Responsible Author.**

**Goligher EC**, Villar J, Slutsky AS. PEEP in ARDS: when should we turn up the pressure? Critical Care Medicine. 2014;42(2):448-50. **Principal Author.**

**Abstracts**

Respiratory muscle training during mechanical ventilation: a systematic review. International 
Symposium on Intensive Care and Emergency Medicine, March 2015, Brussels Belgium. Critical 
Care 2015, 19(Suppl 1):P231. Senior Responsible Author.

Goligher EC, Murray A, Herridge MS, Fan E, Ferguson ND. Inspiratory Diaphragm Activity 
Attenuates the Rapid Onset of Diaphragm Atrophy During the Early Course of Mechanical 
Crit Care Med 181;2010:A5374. Principal Author.

Ferguson ND. Validity and Reproducibility of Sonographic Evaluation of Diaphragm Structure and 
Activity in Mechanically Ventilated Patients. American Thoracic Society Scientific Meeting, May 

Peer-Reviewed Fundings

2015-2016 Co-Principal Investigator. Diaphragm Activity and Function During 
PI: Ferguson, N. $50,000.00 CAD. [Grants]

2014-2015 Co-Principal Investigator. Ultrasound to Evaluate Failure of Liberation from 
Mechanical Ventilation. Ontario Thoracic Society Grant-in-Aid. PI: 
Ferguson, N. $33,000.00 CAD. [Grants]

2013-2018 Principal Investigator. Linking Ventilator-Induced Diaphragm Dysfunction 
and Weaning Failure to Diaphragm Inactivity During Mechanical Ventilation: 
A Physiological Clinical Research Program. CIHR Post-Doctoral Fellowship. 
$275,000.00 CAD. [Grants]

2013-2015 Co-Principal Investigator. Diaphragm Monitoring for Muscle-Protective 
Ventilation. UHN Academic Medical Organization Innovation Fund. 
PI: Ferguson, N. $63,000.00 CAD. [Grants]

2013-2015 Co-Principal Investigator. Diaphragm Monitoring Techniques for Muscle- 
Protective Mechanical Ventilation: Evaluating Validity, Reliability and 
Feasibility. PSI Foundation. Health Research Grant. PI: Ferguson, N. 
$119,500.00 CAD. [Grants]

2012-2016 Principal Investigator. Clinician-Scientist Training Program Salary Award. 
University of Toronto. $220,000.00 CAD. [Grants]

Non-Peer-Reviewed Fundings

2013-2016 Principal Investigator. Diaphragm Atrophy in Mechanically Ventilated Patients: a 
Longitudinal Evaluation of Risk Factors and Outcomes. OSCILLATE Adjunct Study 
Award. $50,000.00 CAD. [Grants]
Invited Lectures and Presentation

International


Local


2015 Jun 2  Invited Speaker. Ultrasound as a Tool for Innovation in Research. Art Slutsky Research Day, Interdepartmental Division of Critical Care Medicine, Toronto, Ontario, Canada.


2014 Apr 24  Invited Speaker. Techniques for Assessing Diaphragm Function. Critical Care Physiology rounds, Interdepartmental Division of Critical Care Medicine, University of Toronto. Toronto, Ontario, Canada.
Honours and Awards

2015  Best Oral Abstract-Physiology, Art Slutsky Research Day, Interdepartmental Division of Critical Care, University of Toronto

2014  Abstract Scholarship Award ($500), American Thoracic Society International Conference, San Diego, USA

2014  Best Oral Abstract Presentation, Annual Resident Research Day, Interdepartmental Division of Critical Care, University of Toronto

2014  School of Graduate Studies Conference Grant, University of Toronto
Peer-Reviewed Publications

Journal Articles

Del Sorbo L, **Goffi A**, Goligher E, Fan E, Slutsky AS. Setting mechanical ventilation in ARDS patients during VV-ECMO: where are we? Minerva Anestesiol. 2015 Dec 1;81(12):1369-76. [*These authors contributed equally to the work*. Impact Factor 2.272. **Co-Principal Author**.


Book Chapters


Editorials

Aryal D, Acharya SP, Shrestha GS, **Goffi A**, Hawryluck L. Nepal after the disaster. Insider points of view for the future of critical care medicine. Am J Respir Crit Care Med. 2015 Oct 1;192(7):781-4. **Coauthor or Collaborator**.

Letters to Editor

Peer-Reviewed Fundings


Invited Lectures and Presentation

International


2015 Oct  Presenter. Different ways to compare diagnostic accuracy of lung ultrasound for acute decompensated heart failure in the Emergency Department. 11th WINFOCUS World Congress. Boston, Massachusetts, United States. Presenter(s): Pivetta E.


2015 Feb  \textbf{Course Director/Lecture}. Emergency Neurological Life Support Course (in collaboration with the Neurocritical Care Society). Department of Anesthesiology, TU Teaching Hospital. Kathmandu, Nepal.


\textbf{Local}


Honours and Awards

2015 Oct
NEXT Young Lecturer Award 2015, Dept of Medicine, Faculty of Medicine, ESICM - European Society of Intensive Care Medicine

2015 Sep
2015 Presidential Citation, Neurocritical Care Society

2014 Jul - 2015 Jun
Award for Individual Teaching Excellence - Toronto Western Hospital, Critical Care Medicine, Dept of Medicine, Faculty of Medicine, University of Toronto. (Postgraduate MD, Subspecialty)
Dr. John Granton  (University Health Network - TGH)

Peer-Reviewed Publications

Journal Articles


St-Onge M, Mandelzweig K, Marshall JC, Scales DC, Granton JT. Critical care trainees’ career goals and needs: A Canadian survey. Can Respir J. 2014 Mar 1:21(2);93-5. **Senior Responsible Author.**

Minic M, Granton JT, Ryan CM. Sleep disordered breathing in group 1 pulmonary arterial hypertension. J Clin Sleep Med. 2014 Mar 15:10(3);277-83. **Coauthor or Collaborator.**


Peer-Reviewed Fundings


Non-Peer-Reviewed Fundings

2015 Apr - 2019 Mar  Principal Applicant. Bayer Pulmonary Hypertension Grant. Bayer Canada Inc. Bayer Candada. Collaborator(s): de Perrot, Marc. $1,000,000.00 CAD. [Industrial Grants].

2011 Jan - 2015 Dec  Principal Site Investigator. AMBITION. A randomized multicenter study comparing the effect on time to clinical failure of initial combination therapy (ambrisentan and tadalafil) and initial monotherapy (ambrisentan or tadalafil) in subjects with pulmonary arterial hypertension. Glaxo Smith Kline. $150,000.00 CAD. [Industrial Grants].

2010 Aug - 2015 Dec  Principal Site Investigator. GRIPHON. Long-term, single-arm, open-label Phase 3 study, to evaluate the safety and tolerability of ACT-293987 in patients with pulmonary arterial hypertension. Actelion Pharmaceuticals Canada Inc. $ 150,000.00 CAD. [Industrial Grants].

Invited Lectures and Presentation

International

2015 Oct 14  Invited Speaker. Advanced Right Heart Failure; Case Presentation. Israel Pulmonary Hypertension Society, Tel-Aviv, Tel-Aviv, Israel.

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<tr>
<th>Date</th>
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<tbody>
<tr>
<td>2014 Apr 10</td>
<td>Invited Speaker</td>
<td>International Society of Heart and Lung Transplantation Annual Scientific meeting. Treatment of advanced pulmonary hypertension in the ICU. San Diego, California, United States.</td>
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<td>Provincial</td>
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<td>2015 Apr 24</td>
<td>Keynote Speaker</td>
<td>Update on the Breathing as One Campaign for Lung Research - plenary session. Canadian Thoracic Society, Ottawa, Ontario, Canada. Plenary session at opening of conference to provide information to the membership, audience, re the campaign and garner support.</td>
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<tr>
<td>2015 Feb 5</td>
<td>Invited Lecturer</td>
<td>Advances in pulmonary arterial hypertension. Medical Grand Rounds Kingston General Hospital, Kingston, Ontario, Canada.</td>
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<tr>
<td>2015 Feb 3</td>
<td>Invited Lecturer</td>
<td>causes of dyspnea in pulmonary hypertension. McMaster University, Hamilton, Ontario, Canada.</td>
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<td>2015 Oct 27-28</td>
<td>Invited Speaker</td>
<td>Lung Transplantation for the Intensivist; Remote Monitoring; Massive PE.</td>
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<td>2015 Oct 2</td>
<td>Invited Speaker</td>
<td>Treatment of advanced pulmonary hypertension and right heart failure.</td>
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<tr>
<td>2015 Mar 23</td>
<td>Invited Speaker</td>
<td>An approach to RVSP; An pragmatic approach to a patient with suspected PH.</td>
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<tr>
<td>2015 Nov 28</td>
<td>Invited Lecturer</td>
<td>New therapeutic advances in pulmonary hypertension</td>
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<tr>
<td>2014 May 24</td>
<td>Invited Speaker</td>
<td>Hypertension/renal disease and cardiac failure symposium. Pulmonary hypertension from ERAs to Soluble guanylate cyclase agonists.</td>
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<td>2014 May 7</td>
<td>Invited Speaker</td>
<td>Evolutions Conference.</td>
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Dr. Laura Hawryluck (University Health Network – TWH)

Peer-Reviewed Publications

Journal Articles


Book

Faith A, Hawryluck L (Editors) - being written on contract with Carswell. Acute Care Law. 2014.

Commentaries


Policy (draft)


Online Resource


Invited Lectures and Presentation

International


2014 Nov Distinguished Speaker. Ethic Chair Nepal Medical Council Importance of a Code of Ethics and professional Conduct Presentation to the new President of the Nepal Medical Council and the new Registrar of the importance of a Code of Ethics for the country, the content of the draft Code, the proposed roll-out/methods of ensuring stakeholder input and WHO (draft proposal).


2014 Sept Distinguished Speaker. Ethic Chair Nepal Medical Council Importance of a Code of Ethics and professional Conduct Presentation to the President of the Nepal Medical Council and Council of the importance of a Code of Ethics for the country, the content of the draft Code, the proposed roll-out/methods of ensuring stakeholder input and WHO (draft proposal).
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<tr>
<td>2015 Nov 12</td>
<td><strong>Distinguished Speaker</strong>.</td>
<td>Decreasing variability in EOL decision-making.</td>
<td>UHN CCRT, Ontario, Canada.</td>
</tr>
<tr>
<td>2015 Nov 12</td>
<td><strong>Facilitator</strong>.</td>
<td>Decreasing variability in EOL decision-making.</td>
<td>UHN CCRT, Ontario, Canada.</td>
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<tr>
<td>2015 Nov 3</td>
<td><strong>Keynote Speaker</strong>.</td>
<td>The new CPSO policies: implications for practice.</td>
<td>TWH CCRT, Ontario, Canada.</td>
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<tr>
<td>2015 Sep</td>
<td><strong>Keynote Speaker</strong>.</td>
<td>Update on Nepal after the disaster.</td>
<td>Jason Wong/ price Waterhouse Cooper, Ontario, Canada.</td>
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<tr>
<td>2015 May</td>
<td><strong>Keynote Speaker</strong>.</td>
<td>Disaster Care Boxes: how to help Nepal after the earthquake.</td>
<td>Jason Wong/ price Waterhouse Cooper, Ontario, Canada.</td>
</tr>
<tr>
<td>2015 Jun 24</td>
<td><strong>Chair</strong>.</td>
<td>Improving process and policy in EOL care.</td>
<td>OHA, Toronto, Ontario, Canada.</td>
</tr>
<tr>
<td>2015 Jun 24</td>
<td><strong>Distinguished Speaker</strong>.</td>
<td>Improving process and policy in EOL care.</td>
<td>OHA, Toronto, Ontario, Canada.</td>
</tr>
<tr>
<td>2015 Jun 24</td>
<td><strong>Distinguished Speaker</strong>.</td>
<td>Best practices in managing risk in the ICU.</td>
<td>The Osgoode Certificate in Clinical Risk, Negligence and Claims Management in Health Care, Ontario, Canada.</td>
</tr>
<tr>
<td>2014 Mar</td>
<td><strong>Distinguished Speaker</strong>.</td>
<td>OHA. Improving process and policy in EOL care.</td>
<td>Toronto, Ontario, Canada.</td>
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Dr. Margaret Herridge (University Health Network – TGH)

Peer-Reviewed Publications

Journal Articles


**Peer-Reviewed Fundings**

2015 Jul - 2018 Jul  **Principal Investigator.** The RECOVER Program: An International Model of Post-ICU care for patients and caregivers. Department of Medicine Challenge Grant. $200,000.00 CAD. [Grants]

2015 Mar - 2016 Feb  **Co-Investigator.** E---CYCLE Pilot: A Pilot Randomized Study of Early Cycle Ergometry versus Routine Physiotherapy in Elderly Mechanically Ventilated Patients. TVN. $99,988.00 CAD. [Grants]


2013 Sep - 2014 Sep  **Co-Investigator.** Clinical outcomes and predictors of PITuitary disorders in patients with moderate and severe Traumatic Brain Injury: the PIT-TBI prospective multicenter pilot cohort study. Canadian Institutes of Health Research (CIHR). $159,000.00 CAD. [Grants]
2013 Jul - 2014 Jun  Co-Investigator. TryCYCLE (Critical Care Cycling to Improve Lower Extremity Strength) A Single-Center, Prospective Pilot Study of the Safety and Feasibility of Early Rehabilitation using Cycle Ergometry in Mechanically Ventilated Patients. Canadian Institutes of Health Research (CIHR). $99,000.00 CAD. [Clinical Trials]

2013 Jul - 2014 Jun  Co-Investigator. Functional Recovery in Critically Ill Children: The “Wee-Cover” Longitudinal Cohort Study. HAHSO Innovation Grant competition. HAHSO Innovation Grant competition. $198,000.00 CAD. [Clinical Trials]

2013 Jul - 2014 Jun  Co-Investigator. COGWELL: Cognitive Outcomes and Wellness in Survivors of Critical Illness. Physicians Services Incorporated Foundation (PSI). $139,000.00 CAD [Clinical Trials]


2012 Jul - 2014 Jun  Co-Principal Investigator. Towards RECOVER: Interdisciplinary and molecular characterization of functional disability after critical illness and development of a family-centred rehabilitation program. AFP Innovation Fund, AFP Innovation Fund. $196,000.00 CAD. [Clinical Trials]

Non Peer Reviewed Fundings

2014 Jul - 2015 Jun  Principal Investigator. RECOVER Rehabilitation Program for Survivors of Complex Critical Illness and their Family Caregivers. The Luck Family Fund. $16,000.00 CAD. [Donations]

2014 Jul - 2015 Jun  Principal Investigator. RECOVER Rehabilitation Program for Survivors of Critical Illness and their Family Caregivers. The Jason Tham and Andrea Chan Family. $2,000.00 CAD. [Donations]

2013 Dec - 2015 Nov  Co-Principal Investigator. RECOVER Program for Survivors of Complex Critical Illness and their Family Caregivers. $250,000.00 CAD. [Donations]
Invited Lectures and Presentation

International

2015 Oct  

2015 Oct  

2015 May  

2014 Oct 1  
**Keynote Speaker.** ICU Acquired Weakness: Clinical Phenotypes and Determinants, ESICM. Barcelona, Spain.

2014 Sep 30  
**Invited Lecturer.** My favorite 3 papers, ESICM. Barcelona, Spain.

2014 Sep 29  
**Chair.** ICU Environment: Lessons learned from building a new ICU, ESICM. Barcelona, Spain.

2014 Apr 10-11  
**Invited Lecturer.** Rehabilitation After ICU Discharge; Muscle Weakness in The Critically Ill Patient; Early Mobilization of The Critically ill Patient. V International Brazilian Symposium of Intensive Care (V SIMI). São Paulo, Brazil.

2014 Apr 10  
**Invited Speaker.** Long Term Follow Up of ICU Survivors. V International Brazilian Symposium of Intensive Care (V SIMI). São Paulo, Brazil.

Local

2015 Nov  
**Distinguished Speaker.** Patient- and Family-Centred Follow-up Care after critical illness: Reflections on almost 20 Years of ICU Outcomes Work. FM Hill Lectureship. Ontario, Canada.

2015 Oct  
**Chair.** Interprofessional Processes of Care. Critical Care Canada Forum. Ontario, Canada.

2015 Oct  

2015 Oct  

2015 Oct  

2015 Oct  
**Distinguished Speaker.** Optimizing Patient and Caregiver Outcomes after Critical Illness: Moving Forward with the RECOVER Program. FM Hill Lectureship. Ontario, Canada.

2015 Mar  **Keynote Speaker.** Outcomes after Complex Critical Illness: Results from the RECOVER Program. University of Toronto Trauma Program. Ontario, Canada.


2014 Nov 1  **Chair.** Clinical Research - From Individuals to Networks, Critical Care Canada Forum. Toronto, Ontario, Canada.

2014 Oct 30  **Invited Lecturer.** ICU Acquired Weakness, Critical Care Canada Forum. Toronto, Canada. ICU Weakness - Phenotype, Function and Outcome.

2014 Oct 30  **Chair.** Long-Term Outcomes, Critical Care Canada Forum. Toronto, Ontario, Canada.


Dr. Stephen Lapinsky (University Health Network – MSH)

Peer-Reviewed Publications

Journal Articles


Little A, Tung D, Truong C, Lapinsky SE, Burry L. Colchicine overdose with coingestion of nonsteroidal antiinflammatory drugs. CJEM. 2014 May:16(3);252-6. Coauthor or Collaborator.


Aversa M, Lapinsky SE. Lung Physiology At Play: Hemoptysis Due To Underwater Hockey. Resp Med Case Reports. 2014 Feb:11;16-17. Senior Responsible Author.

Abstracts


Book Chapters


Manuals


Peer-Reviewed Fundings


Invited Lectures and Presentation

International


2014 May **Collaborator.** American Thoracic Society Annual meeting. Physiology At Play: Hemoptysis Due To Underwater Hockey. Presenter: Aversa M. San Diego, California, United States.

2014 May **Collaborator.** American Thoracic Society annual meeting. Acute Respiratory Distress Syndrome Among High Risk Patients Admitted To Critical Care: Rate And Association With Critical Care Interventions. Presenters: Galvin I, Singh J, Lapinsky SE, Steel AC, Ferguson ND. San Diego, California, United States.

**Local**

2015 Jul **Invited Speaker.** The Basics of Respirology, Introductory Course for First Year Respirology Residents in Ontario - Non-invasive ventilation. Toronto, Ontario, Canada.


2014 Feb 20 **Invited Speaker.** CCRT Symposium. Where we were and where we are now. Toronto, Ontario, Canada.
Dr. Neil Lazar (University Health Network – Toronto General Hospital)

Peer-Reviewed Publications

Book Chapters

Dr. Christie Lee (University Health Network – MSH)

Peer-Reviewed Publications

Journal Articles


Book Chapters

Lee CM. Hypoxemia, Severe. In: Papadakos P and Gestring M, editor(s). Encyclopedia of Trauma Care. (Germany); 2015. Accepted / In Press. Principal Author.

Peer-Reviewed Fundings

2015 - 2016 Co-Investigator. Situating education in patient care: exploring how residents navigate learning opportunities for central venous catheter insertion skills. Department of Medicine, Faculty of Medicine, University of Toronto, Department of Medicine Education Research & Scholarship Gran. PI: Brydges R. Collaborator(s): Mylopoulos M, Goffi A. $11,250.00 CAD. [Grants].


2015 Sep 1 – present Co-Principal Investigator. Research Project. Competency by Design - transforming the critical care program and developing a program of assessment. Interdepartmental division of critical care, University of Toronto, Ontario, Canada. Collaborator(s): Piquette D, Steel A, Hall D, Parker K.

2015 Aug 1 – present Co-Principal Investigator. Research Project. Effects of resident level of autonomy during simulated acute care episodes on learning and subsequent medical errors. Critical Care Medicine, University Health Network, Mount Sinai Hospital and Sunnybrook Hospital, Toronto, Ontario, Canada. Collaborator(s): Piquette D, Brydges R, Goffi A, Amaral AC, Douffle G, DeSousa S, Ringsted C.

Co-Principal Investigator. Research Project. A Questionnaire on Satisfaction of Family Members during Family Meetings in the Intensive Care Unit. Critical Care Medicine, Mount Sinai Hospital. Collaborators: Sangeeta M.


Invited Lectures and Presentation

Local


2015 May Invited Speaker. Social Media and Medical Education. North York General Hospital Faculty Development Workshop, Toronto, Ontario, Canada.

2014 Oct Presenter. Education Scholars Program, Centre for Faculty Development, St. Michael’s Hospital, University of Toronto. Evaluation of Communication in CCM residents: Moving from CanMEDS to Outcomes and Entrustability through Formative Feedback – Poster. Toronto, Ontario, Canada.

2014 Oct Invited Speaker. Mount Sinai Hospital, Department of Medicine, University of Toronto. Pulmonary Function Tests. Toronto, Ontario, Canada.

2014 Aug Invited Speaker. Transition to Clerkship, Faculty of Medicine, University of Toronto. Is my patient critically ill? Toronto, Ontario, Canada.

2014 Aug Invited Speaker. Mount Sinai Hospital, Department of Medicine, University of Toronto. End of Life Discussions. Toronto, Ontario, Canada.

Honours and Awards

2015 Jul  Interdepartmental Division of Critical Care Medicine Individual Teaching Excellence, Critical Care Medicine, Dept of Medicine, Faculty of Medicine, University of Toronto, Ontario, Canada. (Postgraduate MD, Core Program).
Dr. Jeffrey Man (University Health Network – Toronto General Hospital)

Peer-Reviewed Publications

Journal Articles


Book Chapters


Reviews


Invited Lectures and Presentation

Provincial

2014 November Invited Speaker. Vascular Endothelial Gene Regulation: the contribution of long non-coding RNA. Centre for Heart Lung Innovation, St. Paul’s Hospital, University of British Columbia, Vancouver, British Columbia.

2014 November Invited Speaker. Sense and Response to Hypoxia: Role of Nitric oxide. Critical Care Grand Rounds, Vancouver General Hospital, University of British Columbia, Vancouver, British Columbia.

Local


Honours and Awards

2014 Fellowship, Training Program in Regenerative Medicine. Canadian Institutes of Health Research

2014 Poster Award, Basic Science YIF. Canadian Society for Clinical Investigation/Clinician-Investigator Trainee Association of Canada (CSCI/CITAC) Annual Meeting
Dr. Sangeeta Mehta (University Health Network – MSH)

Peer-Reviewed Publications

Journal Articles


Abstracts


Editorials


Peer-Reviewed Fundings

2014 – present  Co-Investigator. LiBeRation from MEchanicaL VEntilAtion and ScrEening Frequency Trial: The RELEASE Trial. Ontario Thoracic Society, Grant-In-Aid. PI: Burns K. $50,000.00 CAD. [Grants]


2014 – present  Co-Investigator. Frequency of Screening And SBT Technique Trial: The FAST Trial. CIHR Operating Grant. PI: Burns K. $212,067.60 CAD. [Grants]
2014 – present **Co-Principal Investigator.** Survey of pharmacists’ attitudes toward the use of probiotics to prevent ventilator associated pneumonia. Technology Evaluation in the Elderly Network, Summer Student Award 2014. PI: Burry L. $6,000.00 CAD. [Grants]

2014 – present **Principal Investigator.** Evaluation of nutritional delivery to elderly patients admitted to the Intensive Care Unit: a retrospective study. Mount Sinai Hospital Department of Medicine Awards Program. $2,500.00 CAD [Grants]

2009 – present **Co-Investigator.** OSCILLation for ARDS Treated Early (OSCILLATE) Trial. Canadian Institutes of Health Research (CIHR). PI: Meade M, Ferguson N. $3,792,489 CAD [Grants]

2015 Oct - 2016 Sep **Co-Investigator.** The RECOVER Program: A Patient- and Family-Centred international practice standard for follow-up care after critical illness and National ICU-outcomes educational program. University of Toronto Department of Medicine Integrating Challenge Grant. PI: Herridge M. $200,000.00 CAD. [Grants]

2013 Nov – 2014 Oct **Principal Investigator.** Diurnal sedative/analgesic changes in a multicenter randomized trial comparing protocolized sedation with daily sedation Interruption versus protocolized sedation alone. Mount Sinai Hospital Department of Medicine Clinical Research Support Program. $4800.00 CAD. [Grants]


2013 April – 2014 April **Principal Investigator.** Predictors of restraint use in a multicenter randomized trial comparing protocolized sedation with daily sedation Interruption versus protocolized sedation alone. Mount Sinai Hospital Department of Medicine Clinical Research Support Program. $4500.00 CAD. [Grants]

2013 April – 2014 April **Senior Investigator.** Restraint use within the SLEAP Trial. 2013 Sigma Theta Tau International Lambda Pi-At-Large Research Seed Grant. PI: Luk E, RN. $1000.00 CAD. [Grants]

2014 May – 2014 Aug **Supervisor.** Noninvasive ventilation for acute respiratory failure in Immunocompromised Patients: a retrospective study. Mount Sinai Hospital Department of Medicine Awards Program – Summer studentship. Student: Bell C, BSc, MD candidate. $2500.00 CAD. [Grants]

**Invited Lectures and Presentation**

**International**


2014 Oct 1 **Chair.** Preventing Delirium in Critical Illness; Guidelines on pain, sedation and delirium. European Society of Intensive Care Medicine Congress. Barcelona, Spain.


2014 Sept 29 **Invited Speaker.** Lessons learned from the patient. State of the Art Session on ICU Environment. European Society of Intensive Care Medicine (ESICM) LIVES 2014, 27th Annual Congress. Barcelona, Spain,

2014 Apr 28 **Invited Speaker.** Sedation and delirium management in the ICU. Long Beach Memorial 6th Critical Care Symposium. Long Beach, California, United States.

**Local**


2015 Oct 28 **Session Co-Chair.** Delirium in the ICU. Critical Care Canada Forum, Toronto, Ontario, Canada.
2015 Oct 27  **Session Chair.** Plenary RCT presentation. Critical Care Canada Forum, Toronto, Ontario, Canada.

2015 Sep 29  **Round Table Discussion.** University of Toronto New Faculty Orientation. University Club, Toronto, Ontario, Canada.

2015 Aug 18  **Invited Speaker.** Sedation practices – are we aware? Critical Care Expert Series, University of Toronto Interdepartmental Division of Critical Care Medicine. Toronto, Ontario, Canada.

**Honours and Awards**

2015  Presidential Citation, SCCM, United States. (Distinction). Awarded for outstanding contributions to the SCCM in 2014.

2014  Presidential Citation, Society of Critical Care Medicine (SCCM). Awarded for outstanding contributions to the Society of Critical Care Medicine in 2013.
Dr. Jeffery Singh (University Health Network – TWH)

Peer-Reviewed Publications

Journal Articles


Abstracts

Singh JM, MacDonald RD, Ahghari M. Adverse Events During Land-Based Urgent Critical Care Prehosp Emerg Care. 2014 Jan 14:18;138. Principal Author.


Peer-Reviewed Funding


2012 Sept – 2015 Sept Principal Investigator. Innovative approaches to mechanical ventilation in spinal cord injured patients. Ontario Neurotrauma Foundation. Collaborator(s): Spahija J. $100,000.00 CAD. [Clinical Trials]
Non-Peer Reviewed Funding

2013 Aug - 2015 Aug **Principal Site Investigator.** EUPHRATES - Evaluation of the use of Polymixin B Hemoperfusion in a Randomized Controlled Trial of Adults Treated for Endotoxemia and Septic Shock. Spectral Diagnostics. $37,000.00 CAD. [Clinical Trials]

Invited Lectures and Presentation

**International**


**Local**


2015 Jun 4 **Invited Speaker.** Neurocritical Care Review. Canadian Critical Care Review. Toronto, Ontario, Canada


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<tr>
<td>2014 May 29</td>
<td><strong>Invited Speaker.</strong> University of Toronto. Critical Care Physiology Rounds Should we suppress spontaneous hyperventilation in acute brain injury? Toronto, Ontario, Canada.</td>
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<tr>
<td>2014 April 4</td>
<td><strong>Invited Speaker.</strong> University Health Network Department of Anesthesia. Postoperative Delirium in the ICU. Toronto, Ontario, Canada.</td>
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**Honours and Awards**

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Dr. Andrew Steel (University Health Network – Toronto General Hospital)

Peer-Reviewed Publication

Journal Article


Book Chapters


Peer-Reviewed Funding


Non-Peer-Reviewed Funding

2015 Sep Collaborator. 3rd Rapid Response Symposium, University Health Network, Sunnybrook Hospital, and Mount Sinai Hospital. Massimo. $4,000.00 CAD. [Industrial Grants] Unrestricted educational grant.

2014 Feb Collaborator. 2nd Rapid Response Symposium, University Health Network, and Mount Sinai Hospital. Massimo. $4,000.00 CAD. [Industrial Grants] Unrestricted educational grant.

Invited Lectures and Presentations

International

2015 May Chair. 28th Annual Meeting and Critical Care Update. Society of Critical Care Anaesthesiologists. Honolulu, Hawaii, United States. Deputy Chair.


**Provincial**


**Local**


**Honours and Awards**

2014 Jul - 2015 Jun  Critical Care Medicine Teaching Award, Toronto General Hospital, Critical Care, Medicine, Faculty of Medicine, University of Toronto
Dr. Elizabeth Wilcox (University Health Network – Toronto Western Hospital)

Peer-Reviewed Publications

Journal Articles


Wilcox ME, Charbonney E, d'Empaire PP, Duggal A, Pinto R, Javid A, Dos Santos C, Rubenfeld GD, Sutherland S, Liles WC, Glogauer M. Oral neutrophils are an independent marker of the systemic inflammatory response after cardiac bypass. J Inflamm. 2014 Oct 1;11(1);32. Principal Author.


Wilcox ME, Chong CA, Stanbrook MB, Tricco AC, Wong C, Straus SE. Does this patient have an exudative pleural effusion? The Rational Clinical Examination systematic review. JAMA. 2014 Jun 18;311(23);2422-31. Principal Author.

Abstracts


Case Reports


Editorials


Peer-Reviewed Fundings


2014 Jan - 2016 Dec  Co-Principal Investigator. COGWELL: Cognitive outcomes and wellness in survivors of critical illness. Physicians Services Incorporated Foundation (The) (PSI). Collaborator(s): Rubenfeld G. $139,000.00 CAD. [Grants]

Invited Lectures and Presentation

Local
