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

2013 Annual Report
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Dear Members of the Interdepartmental Division of Critical Care Medicine,

I am pleased and proud to present the annual report for January 1 – December 31, 2013, for the Division.

As you all know, I arrived at the end of 2013 to take over the responsibility of Director of this prestigious Interdepartmental Division, a position which Dr. Arthur Slutsky assumed for more than ten years. I am really grateful to Art who accepted to stay as a member of the Executive Committee, because he did so much for the Division. His exceptional international stature has also been important for the local and international recognition of the Division. In the name of all members, I want to wholeheartedly thank Art for his work for the Division and look forward continuing to work with him.

The Division is highly successful and presents an impressive annual report. This represents the outstanding work and effort of all members of the Division, and it is an honor for me to present it. This report provides a summary of the academic and professional achievements of our Faculty. The different sites also present a detailed work-up of their own activities.

Research is extremely successful. This year’s report is characterized by a substantial increase in the number of annual publications, more than ever, associated with an increased value of the impact factor compared to the last years. We highly value innovation, and our ultimate goal in research is to have a very significant impact on the science of Critical Care, and ultimately on patient’s management. Congratulations to the Site Directors, Drs. Peter Laussen, Andrew Baker, Brian Cuthbertson and Niall Ferguson for leading such a successful research program.

Quality improvement programs and research in education are becoming more and more important in the Division and these aspects now take an important part in our research agenda.

Special thanks also and congratulations to Dr. Niall Ferguson, appointed as Head of Critical Care for UHN/MSH after an international search this year 2013.

Our education program is of the highest quality and we are always proud to congratulate our new colleagues, who successfully completed their training program and graduated in Critical Care. The teaching program is innovative, diverse and up-to-date. The Resident's day is a great example where education and research are combined within this program. Our Royal College residency program has successfully passed accreditation with a lot of positive appreciations. This is a very important goal for the Division and I want to congratulate those who made it happen. We are really grateful to Drs. Damon Scales, our Program Director and Simon Abrahamson, our Education Director for the outstanding work produced. Since several years, our international fellows follow almost the same educational track, and 2014 will be an important step in this regard. Together with a new Royal College residency program Director, we will launch an international fellowship program for Critical Care at the University of Toronto and recruit a Director as well.
The Canadian Critical Care Forum is a major annual event for the Division and is becoming year after year one of the best international Critical Care meetings. Held in November this year, it was a great success and represented a fantastic opportunity to meet the best world experts and participate in highly interactive sessions. I want to thank the organizing committee as well as all the members of the Division who contributed by their time, lectures, posters or all kinds of participation.

Several city-wide events are working really well and represent outstanding opportunities to learn and spend great time together, such as the monthly Visiting Professor events, and the Clinical Research in Progress sessions organized by Dr. Gordon Rubenfeld and Ms. Meredith Malloy. The Clinical Physiology rounds, initiated by Dr. Ewan Goligher, are also becoming a very attractive event for the members of the Division and beyond. A special thanks for the organization of these events, including to Louisa Matela, our new administrative assistant for the Division.

I have now the enjoyable task of leading this Division in the next years. This looks easy and challenging at the same time. Easy because of the highly successful achievements of the Division, and challenging almost for the same reason! The year 2014 will offer an important occasion to examine our current status through the strategic plan, and for deciding on a common vision for our future. Our Division has some unique features, gathering professionals from all departments, from the adult and pediatric worlds. All academic acute hospitals and research centers work together within the same University. The main force of our Division is our members, and I have no doubt that a very exciting time for the Division is coming.

Thank you.

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. Peter Laussen, The Hospital for Sick Children
Dr. Niall Ferguson, University Health Network
Dr. Brian Cuthbertson, Sunnybrook Hospital

Members
Dr. Arthur Slutsky, St. Michael's Hospital, Vice President of Research and Ex-chair
Dr. Damon Scales, Sunnybrook Hospital, Program Director Residency Training Program
Dr. Simon Abrahamson, St. Michael's Hospital, Education Director
Dr. John Marshall, St. Michael's Hospital, Research Director
Dr. Gordon Rubenfeld, Sunnybrook Hospital, Chief, Trauma, Emergency and Critical Care
Dr. Brian Kavanagh, The Hospital for Sick Children, Research Chair
Dr. Afrothite Kotsakis, The Hospital for Sick Children, Program Director
Dr. Christopher Parshuram, The Hospital for Sick Children, Paediatric Representative
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: Dr. Kali Barrett, Dr. Mohammed Bawazeer, Dr. Andrew Beckett, Dr. Preeti Dhar, Dr. Brooks Fallis, Dr. Keren Mandelzweig, Dr. Elliott Owen, Dr. Ian Randall, and Dr. Shankar Sivananthan. We look forward to following their continued career development and success.

We would also like to welcome those that joined our program in July 2014. We remain very fortunate in being able to attract some of the brightest candidates to our program, and we welcome Dr. Edmond Chau, Dr. Michael Kim, Dr. Andrew Kuhl, Dr. Jonathan Marhong, Dr. Ingrid Morgan, Dr. Marcello Schmidt, Dr. Kevin Shore, and Dr. Michael Tylee.

The residency program continues to offer novel educational opportunities to our trainees, thanks in large part 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. Simon Abrahamson), National ACES course (Dr. Simon Abrahamson), bronchoscopy course (Dr. Simon Abrahamson), leadership course (Drs. Brooks Fallis and Simon Abrahamson), communication workshop (Dr. James Downar), and ethics series (Dr. Neil Lazar). Drs. Simon 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 again coordinated and developed the annual in-training exam to help us assess the progress of our residents. We are very grateful to Meredith Malloy for her dedication and skill in overseeing the administrative aspects of the Residency Program and to Bernadette Slingerland for her expert coordination of the academic half-day program.

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

The Visiting Professor series, organized by Dr. Gordon Rubenfeld, continues to be a tremendous success by exposing our trainees to international leaders in critical care. The Clinical Research in Progress sessions also continue to be very well attended, and have been providing our residents with support and feedback for improving their scholarly projects. Finally, the Annual Residents’ Day was again a major achievement, and featured Dr. Keith Walley as the Keynote Speaker. An impressive 50 abstracts were presented, and 9 of these were selected based on merit as oral presentations.

This was another outstanding year for the Residency Program. During the coming year, we will continue to improve our curriculum and continue our transition towards delivering competency-based medical education. We will be further enhancing our evaluation system, and improving the structure of the research component of the core residency program. Most importantly, we will continue to build on our strong reputation for training leaders in Critical Care Medicine.
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.

This year, Critical Care Canada Forum (CCCF) was held on November 9-12, continuing this year 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.

This year’s conference was attended by over 1000 participants and featured 175 presentations covering many diverse topics including mechanical ventilation, 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 albumin in sepsis and septic shock, resident staffing, and treatment of thirst in the ICU.

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 conference in 2013 was a huge success, and planning is already underway for the upcoming year October 29-November 1, 2014. More details are available at www.criticalcarecanada.com.

The Critical Care Canada Forum is where Canada’s intensivists put the latest science into practice.
The Department of Critical Care at St. Michael’s Hospital continued to strive for success in all fields of activity actively pursued by its staff. With endeavors in the areas of education, research, and clinical activity, the successes of the Department’s members have been recognized through the honours and awards they have received in the past year.

The St. Michael’s Hospital Department of Critical Care Medicine welcomes Drs. Laurent Brochard and Sandro Rizoli as new members of the Department’s faculty. More importantly, Dr. Brochard is the newly appointed Chair of Interdepartmental Critical Care Medicine at the University of Toronto and Dr. Rizoli was appointed the Chair in Trauma Research at St. Michael’s Hospital.

Awards and honours received by physicians in the Department of Critical Care in the past year include:

Dr. Simon Abrahamson was presented with another Best CCM Fellow Teaching Award from St. Michael’s Hospital. Dr. Andrew Baker received a Merit Award from the Department of Anesthesia, University of Toronto. In addition, Dr. Baker also received the 2013 Research Recognition Award from the Canadian Anesthesiologist’s Society. Dr. Karen Burns received a research award for her study on “Weaning critically ill patients from mechanical ventilation”. Dr. Claudia dos Santos was awarded the Best Poster Presentation at the Young Investigators Forum – CIHR. Dr. Chris Hayes received the Harkness Fellowship in Health Care Policy and Practice from the Commonwealth Fund. Dr. Patricia Houston was awarded the FitzGerald Academy Friends of the Academy Award, from the Faculty of Medicine at the University of Toronto and Jeffrey Lozon Leadership Award from St. Michael’s. Dr. John Laffey received Translational Grant Award and Merit Award from the Department of Anesthesia, University of Toronto. Furthermore, Dr. John Marshall received the Jameel Ali Award for Continuing Medical Education from St. Michael’s Hospital. Dr. Sandro Rizoli was presented with the RESCU Scholarship for his work as a graduate supervisor of his MSc candidate Precilla Veigas. Finally, Dr. Arthur Slutsky was awarded with entry into the Engineering Alumni Hall of Distinction from the Faculty of Applied Science and Engineering at the University of Toronto.

In education, Dr. Natalie Wong and Dr. Simon Abrahamson continue with their roles as the leaders of the Residency and Fellowship programs, respectively.

In research, the staff of the Department of Critical Care continued with their dedication to furthering knowledge in their various fields of expertise by publishing 146 articles in peer-reviewed journals in the past year. Some of this research was made possible by a total of 25 research grants awarded to physicians in the department. Special consideration should be
given to Dr. Warren Lee, whose grant award application, “Influenza and acute lung injury: priming, platelets and permeability” was ranked #1 by the CIHR Respiratory Panel. Dr. David Mazer received one of the largest grants in the CIHR grant cycle for his a 4 ½ year study for “Transfusion requirements in cardiac surgery III”. Peer-reviewed grants were received by – Drs. Andrew Baker, Karen Burns, Claudia dos Santos, Chris Hayes, David Klein, John Laffey, Warren Lee, John Marshall, David Mazer, Natalie Wong, and Haibo Zhang.

Department faculty members have also actively participated in the presentation of their research findings not only locally, but on the national and international level as well. There were a total of 49 local, 18 national, and 118 international presentations by staff in the Department of Critical Care in the 2013.
Both the Paediatric and Cardiac Intensive Care Divisions continue to be extremely busy with over 2,000 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. The rate of hospital acquired infection in both intensive care units is below the CDC benchmark, and with prolonged periods of time between infections (days between infection is used as a quality process indicator). In addition, other metrics including the frequency of cardiac arrest, inadvertent extubation and readmission rates are also tracked as quality metrics. A “Time-Out” checklist and team huddle was introduced, and has been effectively used across both Units prior to procedures. We are currently rolling out a standardized handover form, as well as continuing to monitor closely safety around medication delivery and specimen integrity. Over the last academic year we initiated a Nitric Oxide Stewardship program, setting indications for initiation of iNO based on physiologic criteria, established appropriate continuous variables to monitor the effect of nitric oxide, and reinforced the early weaning protocols. This stewardship program has been very effective with the number of hours of nitric oxide use decreased by 50% compared to the previous academic year, representing savings of nearly $250,000. This has been a multidisciplinary approach to reduced practice variability, and at the same time we capture data so that we can modify our indications and management in an iterative process. The nitric oxide stewardship program was applied across all intensive care units (including the Neonatal Intensive Care Unit at SickKids) and we are using it as a springboard for other stewardship programs.

We were pleased to appoint two new staff over the past academic year. Dr. Corrine Balit completed training in pharmacology and critical care in Sydney, Australia and a Fellowship in Critical Care at SickKids and joined as Associate Faculty in October 2013. Dr. Gail Annich is currently the Director of the Paediatric Intensive Care Unit at C.S. Mott Children’s Hospital in Ann Arbor, Michigan and will be joining the faculty in the DCCM in July 2014, with responsibilities related to Quality, Safety and Resuscitation Programs. We have applied for additional AFP positions and are waiting to hear from the Ministry of Health.

The education mission has continued under the leadership of Drs. Afrothite Kotsakis and Briseida Mema. We continue to train Fellows from across the world and plan to continue our close relationship with trainees through our Alumni Association. Dr. Ben Sivarajan received the highest teaching score for faculty given by our Fellows over the last academic year. We also would like to acknowledge the presentation by the College of Physicians of Surgeons of Ontario of a prestigious Council Award honoring Dr. Anne-Marie Guerguerian.
Clinical research within the department continues to be active, led by Dr. Jamie Hutchison. Dr. Brian Kavanagh received CIHR funding for five years to investigate “Ventilator Induced Lung Injury: Linking Gene Activation, Physiology and Outcome”. Dr. Christopher Parshuram received CIHR funding for $90,000 to investigate “Clinical Trial of Bedside PEWS with New Situational Awareness Tool and Remote Educational Module” as part of his work related to early warning systems. Dr. Laussen has applied for a CFI grant to develop an integrated hospital information network (CIA-KIDS). He has also applied to the Patient Centered Outcomes Research Institute (PCORI) as principal investigator at SickKids for a multi-institutional grant to develop a platform for data sharing and patient centered outcomes. Dr. Jamie Hutchison has submitted a proposal for a Brain Canada Platform Support Grant (PSG) to develop a national biobank and database for patients with traumatic brain injury. Dr. Anne-Marie Guerguerian has submitted a CIHR grant application for “Quantifying Brain Injury on Computed Tomography in Hospitalized Children: A Prospective Trial”.

The department continues to have a national and international impact with all staff speaking at national and international meetings. Dr. Peter Cox and Dr. Peter Laussen have been appointed as the Scientific Co-Chair and International Co-Chair respectively for the World Congress in Paediatric Critical Care to be held in Toronto in 2016.
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**

Following an international search Dr. Niall Ferguson was appointed as Head of Critical Care for UHN/MSH. He had served as interim director of critical care for previously. The leadership team for Critical Care at UHN/MSH remained otherwise unchanged in 2013. Drs. Neil Lazar, Jeff Singh, and Stephen Lapinksy serving as Site Directors for Toronto General, Toronto Western, and Mount Sinai, respectively. Our research leads are Drs. Margaret Herridge (UHN) and Geeta Mehta (MSH). Dr. Andrew Steel serves as the Director of our International Fellowship Programme.

**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.

**Education/Innovation**

The International Fellowship Programme at UHN/MSH, under Dr. Andrew Steel’s direction, continues to flourish, despite positions for 7 fellows per year we are fortunate to receive many more strong applications than we can accommodate. In addition we continue to evolve our resident education programme at UHN/MSH, including Intensive Care University – a primer on essentials of critical care for new residents beginning their rotation. Other areas of quality improvement include a focus on reducing CLI and VAP, and new quality initiatives targeting delirium and also early mobility.
Department of Critical Care Medicine, Sunnybrook Hospital

The leadership team for Critical Care Medicine at Sunnybrook Health Sciences Centre remained unchanged in 2013. Dr. Brian Cuthbertson is the Chief of Critical Care Medicine, while Dr. Gordon Rubenfeld continues to serve as Chief of the Trauma, Emergency and Critical Care Program. Dr. Damon Scales remained the Program Director of the University of Toronto Adult Critical Medicine Training Program. Drs. Shelly Dev and Cameron Guest lead the education programme as our Residency Director and Co-Directors of the International Fellowship Program. Dr. Maude St-Onge was recruited as a Clinical Associate to our team.

Research

In research the department enjoyed a number of notable academic accomplishments. Brian Cuthbertson was the senior author on the TRAC-MAN trial in JAMA and the OSCAR trial on high-frequency oscillatory ventilation in the NEJM while continuing the first phases of the SuDDICU research program evaluating selective decontamination of the digestive tract and the METS (Measurement of Exercise Tolerance before Surgery) Study, both funded by CIHR. He was also funded by CIHR for his work with Shannon Goddard in early rehabilitation in the ICU (the ICARuS study). Gordon Rubenfeld was awarded a Physicians’ Services Inc. Foundation Health Research Grant for his collaborative work with Elizabeth Wilcox (UHN) on COGnitive outcomes and WELLness in survivors of critical illness (COGWell).

Andre Amaral continues his focus on quality improvement with publications on patient “hand-offs” and sedation practices. Lorraine Tremblay is the Principal Investigator of the Implementation & Assessment of a Novel Multidisciplinary e-Discharge Summary to Improve Efficiency, Satisfaction, and Safety of Transfer of Care for Complex Patients. Damon Scales was an inaugural recipient of the Physicians’ Services Incorporated Fellowship Award in Translational Medicine (2012-2015), the scientific officer for the CIHR Health Services Research Panel, principal investigator of the CIHR-funded ICE-PACS Randomized Controlled Trial and Premature Termination of Resuscitation in Survivors of Cardiac Arrest (PremaTOR) study, in addition to authoring 14 peer-reviewed publications. Neill Adhikari is a consultant to the World Health Organization Global Influenza Program critical care training courses, lecturing in Indonesia and Vietnam in addition to authoring 16 peer-reviewed publications. Rob Fowler completed a Commonwealth Fund Harkness Fellowship and began a Heart and Stroke Foundation Mid-Career Clinician Scientist award (2013-2017), initiating a research program focused on end-of-life care and funded by CIHR, TVN Network Center of Excellence, and the University of Toronto. Martin Chapman is the project lead for the Ontario Neurotrauma...
Foundation-funded Knowledge Translation for Severe Traumatic Brain Injury (sTBI) Across Ontario and the Academic Health Sciences Centres Alternate Funding Plan Innovation Fund Transforming the Care Of Patients with Severe Traumatic Brain Injury (sTBI) In Toronto projects. Taz Sinuff authored numerous peer-reviewed publications on advance care planning, rationing in the ICU and quality improvement initiatives.

The Visiting Professorship Program organized by Dr. Gordon Rubenfeld and Meredith Malloy continues to be tremendously successful in bringing 9 international experts in Critical Care to Sunnybrook and the city-wide Interdepartmental Division of Critical Care. The Clinical Research in Progress sessions continue to provide a supportive environment where investigators can bring research projects for critical evaluation and discussion. This past year we had 16 presenters which included an assortment of both city-wide staff and fellows.

The Critical Care Research Department, lead by our Research Manager, Nicole Marinoff, RN continues to support the IDDCCM with their participation in industry and academic trials. Several studies have completed enrollment and are currently under review and pending publication. In 2013, the department received 9 new Research Ethic Board approvals in addition to the 21 that remain open.

**Education and Quality Improvement**

We pride ourselves on our high quality clinical teaching and in the 2013-2014 academic years 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 the very popular educational video series around correct hand hygiene practices for Sunnybrook Health Sciences Centre. Her collaboration with colleagues in the Department of Medicine to develop a video series for educators to learn about giving effective feedback to trainees has been very successful.

In Quality Improvement, the Department continues to collect data on key quality indicators reflecting our performance. A Process of Care Database was developed and validated, which monitors the quality of care provided in the ICU for these select quality indicators. The results are published internally on-line on a quarterly basis. Led by Dr. Eddy Fan and Dr Gordon Rubenfeld and in collaboration with other academic ICUs a common database (iCORE) for ventilated patients was developed, and we will continue to measure and publish performance metrics with this new database. We have initiated activities to improve compliance with lung protective ventilation, early rehabilitation and to decrease blood work. We continue to present projects and share ideas in a biannual multi-professional quality meeting across all of critical care central with encouraging feedback. Dr. Andre Amaral continues to work on hand over and clinical communication as quality improvement ventures.
ORGANIZATION CHART

U of T Dept. of Anaesthesia

U of T Dept. of Medicine

U of T Dept. of Paediatrics

U of T Dept. of Surgery

Interdepartmental Division of Critical Care Medicine (IDCCM)

Dr. Laurent Brochard
Division Director

IDCCM Executive Committee

Royal College U of T Adult CCM Residency Program

Dr. Damon Scales
Program Director

U of T PGME-International Fellowship Program

TBD

St. Michael’s Hospital

Dr. Andrew Baker
Chief

Hospital for Sick Children

Dr. Peter Laussen
Chief

Sunnybrook Hospital

Dr. Brian Cuthbertson
Chief

University Health Network & Mount Sinai Hospital

Dr. Niall Ferguson
Chief

July 2014
2013 Impact Factor Publication Analysis

Number of publications: 289
Number of publications with impact factor: 260
Mean impact factor: 6.69
Median impact factor: 4.71
Percentage of publications with impact factor greater than 7: 15.6%
5 Year Impact Factor Publication Analysis

Number of Publications

Mean Impact Factor

- Number of Publications

- Mean Impact Factor
Overall Interdepartmental Summary

Our faculty consists of 80 members.
University Rank Full-Time Faculty

- Professor: 18
- Associate Professor: 13
- Assistant Professor: 36
- Lecturer: 3
- Clinical Associate: 10

![Pie chart showing the distribution of full-time faculty by rank.]

- Professor: 22%
- Associate Professor: 16%
- Assistant Professor: 45%
- Lecturer: 4%
- Clinical Associate: 13%
Research Job Description Faculty

Clinician Administrator 4
Clinical Scientist 23
Clinician Teacher 12
Clinician Educator 7
Clinician Investigator 9
Senior Scientist 3
Associate Scientist 2
Affiliate Scientist 2
Scientist 3
Scientists Track 5
Educator Track 2
Not Applicable 8
APPENDICES
# Appendix I: Faculty List

## St. Michael's Hospital

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<th>Name</th>
<th>University Rank</th>
<th>Research Rank</th>
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<tr>
<td>Abrahamson, Simon</td>
<td>Associate Professor</td>
<td>Clinician Educator</td>
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<tr>
<td>Ahmed, Najma</td>
<td>Associate Professor</td>
<td>Clinician Educator</td>
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<tr>
<td>Brochard, Laurent</td>
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The Hospital for Sick Children

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<thead>
<tr>
<th>Name</th>
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### University Health Network & Mount Sinai Hospital

(renal General Hospital & Toronto Western Hospital)

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Appendix II: Summary Activity Reports
Dr. Simon Abrahamson  (St. Michael’s Hospital)

Invited Lecture and Presentation

National

Honours and Awards
2013  Clinical Excellence Award, Department of Anesthesia, University of Toronto
**Peer-Reviewed Publication**

**Journal Article**

**Invited Lectures and Presentations**

**International**

**Provincial**

**National**

**Local**
2013 Apr 20 Speaker. What is new with splenic trauma. University of Toronto CPD, Toronto, Ontario.
Dr. Andrew Baker, Chief (St. Michael’s Hospital)

Peer-Reviewed Fundings


2013 - 2014  **Principal investigator.** Development of Biomarker Profile and Rapid Screening Tool in mTBI due to Subclinical Primary Blast. Canadian Institutes of Health Research. $99,927 CAD. [Grant]


2012 Dec - 2013 Mar  **Principal investigator.** Proof of concept investigations into preconditioning against blast-induced neurotrauma. Canadian Institute for Military and Veteran Health Research. $29,279.76 CAD.[Grant]
Peer-Reviewed Publications

Journal Articles


Invited Lectures and Presentations

National

2013 Nov 10 **Speaker**. Where are We Now? Critical Care Canada Forum, Toronto, Ontario


2013 Jun 6 **Speaker**. Neurological Critical Care, 7th Annual Canadian Critical Care Review, Mississauga, Ontario.
2013 Sept 23 **Speaker.** Brain Resuscitation, Foundations in Resuscitation Science Research, Toronto, Ontario.

**Local**


2013 Jan 23 **Speaker.** End of Life and Intensive Care, The Osgoode Certificate in Clinical Risk, Negligence and Claims Management in Health Care, Toronto, Ontario.

**Honours and Awards**


Dr. Laurent Brochard (St. Michael’s Hospital)

Peer-Reviewed Fundings
2013 Oct - 2016 Sep Co-Investigator. The Importance of Spontaneous Breathing Efforts in Mechanically Ventilated Patients with Acute Respiratory Distress Syndrome. CIHR. Operating Grant. PI: Fan, Eddy. Collaborator(s):
Brochard L, Ferguson N, Rubenfeld G, Scales D, Slutsky A, Smith O.
213,508 CAD. [Grants]

2011 - 2013 Research project on PAV+. Covidien. 30,000 EUR. [Industrial Grants]

Peer-Reviewed Publications
Journal Articles
Cordioli RL, Garelli V, Lyazidi A, Suppan L, Savary D, Brochard L, Richard JC.


Comment, Editorial

Comment, Letter to Editor


Journal Article, Multicenter Study

Journal Article, Randomized Controlled Trial
Journal Articles, Review

Letter to Editor, Multicenter Study

Invited Lectures and Presentations
International

Local


2013 Nov 10 **Chair.** Plenary Debate-Who Should Run the (CV) Surgical ICU. Critical Care Canada Forum. Toronto, Ontario, Canada.

Peer-Reviewed Fundings

2013 Jan - 2014 Dec **Principal Investigator.** Practices in End of Life Care and Mechanical Ventilation Discontinuation: A Nested Study Within an International Observational Study. 2013 Tech Value Net $ 70,950.00. Co-investigators: Deborah Cook, Peter Dodek, Maureen Meade. 70,950 CAD.[Grant]


Peer-Reviewed Publications

**Journal Articles**


Invited Lectures and Presentations

National

2013 Nov 13  A Randomized Trial of Once Daily Screening vs At least Twice Daily Screening in Mechanically Ventilated Critically Ill Adults. Canadian Critical Care Trials Group Meeting, Toronto, Ontario.

2013 Jun 18  A Randomized Trial of Once Daily Screening vs At least Twice Daily Screening in Mechanically Ventilated Critically Ill Adults. Canadian Critical Care Trials Group Meeting, Quebec City.

Provincial

2013 Jan 30  Results of the Approach Trial. Canadian Critical Care Trials Group Meeting, Lake Louise, Alberta.
Honours and Awards
2012 - 2015 Research Award. Weaning Critically Ill Patients from Mechanical Ventilation.
2012 - 2013 St. Michael’s Hospital Values in Action Award, Social Responsibility-Critical Care Response Team.
Dr. Robert Chen (St. Michael’s Hospital)

Peer-Reviewed Publication
Journal Article

Invited Lectures and Presentations
Provincial
2013 Oct 31  Anesthesia bedside ultrasound. North York General Hospital, Department of Anesthesia, Toronto, Ontario.
2013 Feb 1-2  Anaesthesia Point of Care Ultrasound. Department of Anaesthesia, Memorial University of Newfoundland.
Peer-Reviewed Fundings

Mechanisms of protection and informed target discovery for gene and stem cell therapy in sepsis. Canadian Institutes of Health Research (CIHR). Bridge Funding. 126573. 100,000 CAD. [Grant]

Principal Investigator. Mechanisms of protection and informed target discovery for gene and stem cell therapy in sepsis. CIHR grant. $190,000/yr CAD.[Grant]

Peer-Reviewed Publications

Journal Articles


Invited Lectures and Presentations

International


2013 Oct 7 Speaker. Absence of DJ-1 attenuates morbidity and mortality in experimental sepsis through improved bacterial clearance. ESICM. Paris, France


Provincial


2013 Jan 29 Speaker. Molecular markers of ICUAW. Canadian Critical Care Trials Group, Lake Louise, Alberta.

2013 Jan 26  Speaker. Molecular Mechanisms of ICUAW. CCCTBG. Lake Louise, Alberta.


Honours and Awards

2013  Young Investigator Forum, Best Poster Presentation, Canadian Institutes of Health Research, Canada.
**Dr. Jan Friedrich (St. Michael’s Hospital)**

**Peer-Reviewed Fundings**


**Peer-Reviewed Publications**

**Journal Articles**


Invited Lecture and Presentation
National
Peer-Reviewed Funding


Peer-Reviewed Publication

Journal Article


Invited Lectures and Presentations

Provincial


2013 Feb 19 Speaker. The LFT’s are high: now what? University of Toronto Continuing Education. Whistler, British Columbia.
Peer-Reviewed Publication

Journal Article

Invited Lectures and Presentations

Local
2013 May 22 Speaker. Clinical Utility of Molecular Genetic Analysis in the Diagnosis of Primary Ciliary Dyskinesia. Department of Pediatrics, University of Toronto. Toronto. Presenter(s): Raymond Kim, David Hall. Department of Pediatrics, University of Toronto Research Day. (Trainee Presentation)
2013 Mar 8 Speaker. Clinical Utility of Molecular Genetic Analysis in the Diagnosis of Primary Ciliary Dyskinesia. Hospital for Sick Children Division of Clinical and Metabolic Genetics. Toronto. Presenter(s): Raymond Kim, David Hall. Hospital for Sick Children Division of Clinical and Metabolic Genetics 2nd Annual Research Day. (Trainee Presentation)
Dr. Christopher Hayes (St. Michael’s Hospital)

Peer-Reviewed Publications
Journal Articles


Invited Lectures and Presentations
International


Provincial

Local
Honours and Awards

2013 May – 2014 Aug  

Harkness Fellowship in Health Care Policy and Practice, The Commonwealth Fund, Boston, Massachusetts, United States.  
(Fellowship Award). $120,000 CAD.
Dr. Patricia Houston (St. Michael’s Hospital)

Peer-Reviewed Publication
Journal Article


Invited Lectures and Presentations
National
2013 April Speaker. Professionalism in Undergraduate Medical Education. Canadian Conference on Medical Education. Canada. April 2013.

Honours and Awards
2013 July Jeffrey Lozon Physician Leadership Award, St Michael’s Hospital, Toronto.
2013 June The FitzGerald Academy Friends of the Academy Award, The FitzGerald Academy, Faculty of Medicine, University of Toronto, Ontario, Canada. (Distinction).
Dr. David Klein (St. Michael’s Hospital)

Peer-Reviewed Funding
2013 Apr – 2015 Mar
A Phase 2 Trial of Withania Somnifera in the Treatment of Patients with ALS. ALS Canada. PI: Zinman, L. $500,000 CAD. [Grant]

Peer-Reviewed Publications
Journal Articles

Invited Lectures and Presentations
International
2013 Feb Speaker. Endotoxemia is Related to Sepsis. CRRT. San Diego, California, United States.

National
Peer-Reviewed Publications

Journal Articles


Curley GF, Laffey JG, Kavanagh BP. CrossTalk proposal: There is added benefit to providing permissive hypercapnia in the treatment of ARDS. J Physiol. 2013 Jun 1;591 (Pt 11):2763-5.


Laffey JG, Talmor D. Predicting the development of acute respiratory distress syndrome: searching for the "Troponin of ARDS". Am J Respir Crit Care Med. 2013 Apr 1;187(7):671-2.


Invited Lectures and Presentations

International


2013 Sep 19 Speaker. MSCs for ARDS – ready for Clinical Testing? Medical Grand Rounds, St Vincent’s University Hospital, Dublin.


2013 May 9  Speaker. The critically ill pregnant patient. SMART Conference, Milan.

2013 May 10 Speaker. Hypercapnia in ARDS: should we permit, avoid or remove? Milan.


National


2013 Nov 9  **Speaker.** Hypercapnea: An important treatment, not a complication. Canadian Critical Care Forum Annual Conference (Residents Day), Toronto, Ontario.

2013 Apr 9-10  **Speaker.** MSCs for ARDS: Potential and Pitfalls. Anesthesia Grand Rounds, Beth Israel Hospital, Harvard, Boston.

Honours and Awards

2013 Jul  Department of Anesthesia Translational Grant Award

2013-2015  Department of Anesthesia Merit Award

2013  Appointed to Editorial Board for Intensive Care Medicine Experimental
### Peer-Reviewed Publications

#### Journal Articles


### Invited Lectures and Presentations

#### International


#### Provincial

2013 Apr 12 **Speaker.** Open Scientific Paper Session. Australasia and Canada Trauma Association Annual Scientific Meeting. Canada.

2013 Apr 11 **Speaker.** Organizing Trauma Systems in Ontario. Australasian and Canadian Trauma Association Annual Scientific Meeting. British Columbia, Canada.
National


Local
2013 May 30 **Speaker.** A real time information system to inform policy development in Critical Care. University of Toronto Department of Surgery. Toronto, Ontario, Canada. Presenter(s): Azouz, Sol. (Trainee Presentation).

Peer-Reviewed Fundings

2013 Jun – 2018 Sept  
**Principal Investigator:** Influenza and acute lung injury: priming, platelets and permeability. Canadian Institutes of Health Research (CIHR). PI: Lee, Warren. $480,000 CAD. [Grant]

2013 Jun – 2014 Sept  
**Co-Investigator:** Macrophage lipotoxic inflammation: Its mechanism, impact on insulin delivery and interplay with muscle. Canadian Institutes of Health Research (CIHR). PI: Klip, Amira. $750,000 CAD. [Grant]

Peer-Reviewed Publications

**Journal Articles**


Armstrong SM1, Darwish I, **Lee WL.** Endothelial activation and dysfunction in the pathogenesis of influenza A virus infection. Virulence. 2013 Aug 15;4(6):537-42.


Invited Lectures and Presentations

**International**

2013 Oct 9  
**Speaker.** Influenza and acute lung injury: priming and endothelial permeability. Oklahoma State University. Stillwater, Oklahoma, United States. NIH Centers of Biomedical Research Excellence (CoBRE).

2013 May 21  
**Speaker.** Influenza Primes Human Lung Microvascular Endothelium to Leak Upon Exposure to Staphylococcus aureus. Philadelphia, PA, United States.
Local


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

Peer-Reviewed Funding

Peer-Reviewed Publications
Journal Articles


Book Chapter


Invited Lectures and Presentations

International


2013 Sept 4-6  Speaker. The role of biomarkers to guide treatment in sepsis.  2. PIRO: Sepsis diagnosis and stratification. 6th International Congress on Sepsis and Multiorgan Dysfunction. Weimar, Germany.


2013 May 9-10 Speaker. Source control in the management of complex infections. 2. Cell biology for the intensivist. 3. Endotoxin in critical illness: Epidemiology and treatment options. 11th Simposio Internacional Emergencias Médicas y Paciente Crítico, Santiago, Chile.


2013 Apr 25-26 Speaker. The neutrophil in critical illness. 2. Pre-B Cell Colony Enhancing Factor (PBEF)/Nampt/Visfatin. 10th Critical Care Symposium, Manchester UK.


Provincial

National

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

Peer-Reviewed Fundings
2013 - 2016  **Co-Applicant.** The METS (Measurement of Exercise Tolerance before Surgery) Study: An international multicentre prospective cohort study of cardiopulmonary exercise testing for improving preoperative risk stratification for major non-cardiac surgery. CIHR; Heart and Stroke Foundation of Canada.

2013 Oct - 2015 Mar  **Co-Principal.** Transfusion requirement in cardiac surgery III (TRICS III) Canadian Institutes of Health Research (CIHR)2013. $3,323,110 CAD. [Grant].

2013 Jul - 2015 Jun  **Principal Investigator.** Reducing Adverse Outcomes in Cardiac Surgery Related to Tissue Hypoxia. University of Toronto. $80,000 CAD. [Grant]

2013 Apr - 2014 Mar  **Principal Investigator.** Efficacy and safety of perioperative infusion of 6% hydroxyethyl starch 130/0.4 in an isotonic electrolyte solution (Volulyte™) vs. 5% HSA as volume replacement therapy during cardiac surgery for adult patients. Fresenius-KabiGnbH. $168,000 CAD. [Grant].

2013 - 2014  **Principal Investigator.** A randomized, multicenter, double-blind, placebo-controlled study of AC607 for the treatment of acute kidney injury in cardiac surgery subjects. AlloCure Inc. $180,000 USD. [Grant]

Peer-Reviewed Publications

**Journal Articles**


Invited Lectures and Presentations

International

2013 Oct 16 Speaker. Update on strategies for blood conservation and hemostasis in cardiac surgery. American Society of Anesthesiologists (ASA) annual meeting. San Francisco, California, USA.


2013 Oct 4 Speaker. Antifibrinolytic therapy in the post aprotinin era: Efficacy and outcome. Association of Cardiac Anesthesiologists annual meeting, Washington, USA.

2013 Apr 9 Speaker. The intersection of blood conservation guidelines and real life care of cardiovascular surgery patients. Problem based learning discussions (PBCD). SCA Annual meeting, Miami, Florida, USA.


2013 Aug 11 Speaker. Update on best practices (Blood transfusion, HIT, and antifibrinolysis). (Moderator) International Forum of Cardiovascular Anesthesia (IFCA), the 8th International Chinese Cardiovascular Anesthesia Forum (ICCAF), China Heart Congress. Beijing, China.

Provincial

2013 Dec 9 Speaker. Transfusion and blood conservation in cardiac surgery, University of British Columbia, Vancouver General Hospital Interdisciplinary Cardiac Journal Club Rounds, Vancouver, British Columbia.


Local

2013 Nov 22 **Speaker.** Seizure in the ICU patients, new drugs in the pipeline?”, Inter-City Clinical Rounds, Sunnybrook Health Sciences Centre, Toronto, Ontario.


2013 Oct 22 **Speaker.** Plagiarism. Li Ka Shing Knowledge Institute Research Retreat, Toronto.
Peer-Reviewed Publication

Journal Article

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

Peer-Reviewed Publications

Journal Articles


Ferreira F, Barbosa E, Guerreiro E, Fraga GP, Nascimento B, Rizoli SB. Sequential closure of the abdominal wall with continuous fascia traction (using mesh or sutures) and negative pressure therapy. Rev Col Bras Cir. February 2013; 40(1):85-89. SRI

Invited Lectures and Presentations

Local


2013 Apr 2 Speaker. What every surgeon should know about bleeding. St. Michael’s Hospital. Toronto, Ontario.
Dr. Christer Sinderby (St. Michael’s Hospital)

Peer-Reviewed Publications

Journal Articles


Invited Lectures and Presentations

International

2013 Nov 17 Speaker. NAVA non-invasive. 11th Crit Care Forum Jiangsu, China.
2013 Nov 17 Speaker. NAVA Lung protection. 11th Crit Care Forum Jiangsu, China.
2013 Nov 16 Speaker. NAVA A Panacea. 11th Crit Care Forum Jiangsu, China.
2013 Nov 16 Speaker. NAVA improve patient-ventilator synchrony. 11th Crit Care Forum Jiangsu, China.
2013 Sept 18 Speaker. Neurally Adjusted Ventilatory Assist, Scientifical Rounds Anesthesiology and Critical Care, Vladivostok, Russia.
2013 Feb 9 Speaker. Diaphragm electrical activity (Edi) and NAVA. Abu Dhabi.

National


Provincial


Local

2013 May Speaker. Endo-tracheal Thrivh-flow. Critical Care Rounds, St. Michael’s Hospital, Toronto, Ontario.
Peer-Reviewed Publications

Journal Articles


**Invited Lectures and Presentations**

**International**


2013 Oct 5-9 **Speaker.** Ventilator induced lung injury, (2) So many potential therapies, so few proven successes. Why? (3) Fluid balance in ARDS. European Society of Intensive Care Medicine (ESICM), Paris, France.


2013 May 8-9 **Speaker.** History of Mechanical Ventilation, (2) Biomarkers in ARDS. Simposio Mostra Anestesia Rianimazione e Terapia Intesiva (SMART), Milan, Italy.

2013 Apr 19 **Speaker.** How important is lung failure for the outcome? Scientific Expert Symposium: ARDS - Boehringer Ingelheim, Biberach, Germany.
2013 Mar 19-21  **Speaker.** High frequency ventilation - Non-conventional modes of mechanical ventilation, (2) Physiological vignettes - Basic physiological concepts, (3) NAVA as a lung protective strategy in ARDS - Protecting the lungs. 33rd International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium.

2013 Apr 19  **Speaker.** How important is lung failure for the outcome? Scientific Expert Symposium: ARDS - Boehringer Ingelheim, Biberach, Germany.

2013 Apr 2  **Speaker.** History of Mechanical Ventilation. University Hospital Case Medical Center - Medical Grand Rounds, Cleveland, Ohio.


2013 Apr 2  **Speaker.** History of Mechanical Ventilation. University Hospital Case Medical Center - Medical Grand Rounds, Cleveland, Ohio.
Peer-Reviewed Publication

Journal Article

**Peer-Reviewed Fundings**

2013 May - 2014 Jun  Principal Investigator. Mock Codes to Improve First Responder BLS at St. Michael’s Hospital. SMH AFP. $46,956.25 CAD. [Grant]

2012 Jul - 2013 Jun  Principal Investigator. Quality Improvement Fund. SMH QIF. $ 21,000 CAD. [Grant]

**Peer-Reviewed Publications**

**Journal Article**


**Invited Lectures and Presentations**

**National**


**Local**

2013 Apr 22  Speaker. Career Talk to Medical Students at University of Toronto, University of Toronto. Toronto, Ontario.
Peer-Reviewed Funding

Peer-Reviewed Publications

**Journal Articles**


Invited Lectures and Presentations

International

2013 May 3-7 Speaker. Human neutrophil peptides induce inflammatory atherosclerotic events. Immunology 2013™ American Association of Immunologists (AAI) Annual Meeting, Hawaii Convention Center, Honolulu, Hawaii, USA.

2013 Mar 15-17 Speaker. What have we learnt from sepsis trial? 6th Symposium of Guangdong Society of Intensive Care Medicine, Fushan, China.


2013 Jan 7-9 Speaker. New advances in sepsis research. International Symposium on Critical Care Medicine, Guangzhou Medical University. Guangzhou, China.
Peer-reviewed Publications

Journal Articles


Invited Lectures and Presentations

International


National

Nov 2013 Invited Speaker. Meet the Professor (Paediatric Respiratory Failure)Canadian Critical Care Forum, Toronto, Canada.
Peer-reviewed Publications

Journal Articles


Book Chapters


Abstracts
2013 Eini ZM, Floh AA, Freedman SB, Humpl T, Schwartz SM, Sivarajan VB. Clinical Outcomes of Pediatric Myocarditis. Annual Scientific Sessions of the American Heart Association, Dallas, TX, USA.

2013 Jean-St-Michel E, Chetan D, Schwartz SM, Van Arsdell GS, Floh AA, Conway J. Clinical Outcomes in Patients With Persistent Ventricular Dysfunction After Stage I Palliation for Hypoplastic Left Heart Syndrome. Annual Scientific Sessions of the American Heart Association, Dallas, TX, USA.


Invited Lectures and Presentations

Local


Peer-reviewed Publications

Journal Articles


Invited Lectures and Presentations

National

2013 Dec 03 Invited Speaker. Sodium and fluid in the pediatric neurosurgical patient, American Association of Neurological Surgeons and Congress of Neurological Surgeons, Ontario, Toronto.


Abstracts National


Local
2013 Jul  
**Invited Speaker.** Sehgal A, Anand V, Fazari L, Dryden-Palmer K, Sivarajan VB, Honjo O, **Guerguerian AM.** Department of Critical Care Medicine, Hospital for SickChildren, The Labatt Family Heart Centre, "Venovenous ECMO cannulation practices, complication and outcomes at Sick kids" Poster Residents Day. Toronto, Canada.
Dr. Tilman Humpl  (Hospital for Sick Children)

Peer-Reviewed Funding

Peer-reviewed Publications
Journal Articles


In Preparation
Al Alem HA, Cox P, van Arsdell G, Gruenwald C, **Humpel T**. Who Survives the Second ECMO Run? **Senior Responsible Author**

### Abstracts

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<th>Date</th>
<th>Authors</th>
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<tr>
<td>2013 Nov</td>
<td>Eini ZM, Floh AA, Freedman SB, <strong>Humpel T</strong>, Schwartz SM, Sivarajan VB</td>
<td>Outcomes of Paediatric Myocarditis. AHA 2013, Dallas, Texas, USA. <strong>Co-author or Collaborator</strong></td>
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<td>2013 Oct</td>
<td>Morales DLS, Zafar F, Wearden PD, Rosenthal DN, Cabrerra AG, Rossano JW, <strong>Humpel T</strong>, Jefferies JL</td>
<td>LVAD vs BiVAD use across the USA: Understanding when a particular device strategy is chosen and its effect on outcomes. CHSS 2013 Annual Meeting, Chicago, Illinois, USA. <strong>Co-author or Collaborator</strong></td>
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2013 Apr  Conway J, Manlhiot C, Dipchand AI, McCrindle B, Humpl T. Thromboembolic and bleeding complications in pediatric patients with a ventricular assist device. ISHLT 33rd Annual Meeting and Scientific Sessions, Montreal, Quebec, Canada. **Senior Responsible Author**


**Invited Lectures and Presentations**

**International**


2013 Oct  Mechanical support in 2013 and what are the hopes of the future? 27th EACTS (European Society for Cardio-Thoracic Surgery) Annual Meeting. Vienna, Austria.


**National**

2013 Nov  **Invited.** Customized ECLS. Critical Care Canada Forum. Toronto, Ontario, Canada.

2013 Oct  **Invited.** What’s new in Pulmonary Hypertension, Report from the World Congress and Canadian Pediatric Pulmonary Hypertension Registry. Canadian Cardiovascular Society. Montreal, Quebec, Canada.
Dr. Jamie Hutchison  (Hospital for Sick Children)

Peer-Reviewed Funding
2013 Jul - 2018 Jun Co Investigator. Approaches and decisions for Acute pediatric TBI (ADAPT) Principal Applicant: Bell, Michael Funding Sources NINDS National Institutes of Health (NIH) (USA) Total Funding: $16,147,544 CAD. [Grant]

Peer-reviewed Publications
Journal Articles
Hutchison JS, Guerguerian AM, Cooling of children with severe traumatic brain injury., 2013 Lancet Neurol, 12(6), 527-529. Senior Responsible Author

Coauthor or Collaborator

Abstracts


2013 Nov **Invited Speaker.** Sugiura, Asumi; Salewski, Ryan; Wang, Frank; Granton, John; Taylor, Paul; **Hutchison, JS;** Kallikrein-1 as a potential biomarker of global cerebral ischemia and neuroprotection in mice." Abstract Canadian Critical Care Forum -Sheraton Centre Hotel & Conference Centre, November 9-12, 2013., Canada, Ontario, Toronto.

2013 Nov **Invited Speaker.** Payne, Eric; Zhao, Xiu Yan; Frndova, Helena; McBain, Kristin; Sharma, Rohit; **Hutchison, JS;** Hahn, Cecil, "Increased electrographic seizure burden among critically ill children associated with a decline in neurologic function at hospital discharge." Abstract. Canadian Critical Care Forum -Sheraton Centre Hotel & Conference Centre, November 9-12, 2013., Canada, Ontario, Toronto.


**Invited Lectures and Presentations**

**International**

2013 Sept **Invited Speaker.** Vasopressin in pediatric septic shock., 10th Chilean Pediatric Intensive Care Congress, Chile, Region Metropolitana de Santiago.

2013 Sept **Invited Speaker.** Hypothermia and neuroprotection., 10th Chilean Pediatric Intensive Care Congress, Chile, Region Metropolitana de Santiago

2013 Sept **Invited Speaker.** Multimodal neuromonitoring., 10th Chilean Pediatric intensive Care Congress, Chile, Region Metropolitana de Santiago.

2013 Sept **Invited Speaker.** Brain death in PICU., 10th Chilean Pediatric Intensive Care Congress, Chile, Region Metropolitana de Santiago.

2013 Sept **Invited Speaker.** Neurophysiology applied to pediatric brain injury management cerebral., 10th Chilean Pediatric Intensive Care Congress, Chile, Region Metropolitana de Santiago.
<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013 Apr</td>
<td>Invited Speaker.</td>
<td>Translational Investigation in Pediatric TBI: Outcome Monitoring in Pediatric Brain Injury, Grand Rounds, Alberta Children's Hospital, Canada, Alberta.</td>
</tr>
</tbody>
</table>
**Peer-reviewed Publications**

**Journal Articles**


M Cereda, Y Xin, K Emami, J Huang, J Rajaci, H Profka, B Han, P Mongkolwisetwara, S Kadlecek, NN Kuzma, S Pickup, **BP Kavanagh**, CS Deutschman, RR Rizi. PEEP increments during anesthesia in normal lung result in hysteresis and greater numbers of smaller aerated airspaces. Anesthesiology. 2013 Dec;119(6):1402-9. **Coauthor or Collaborator.**

N de Prost, EL Costa, T Wellman, G Musch, MR Tucci, T Winkler, RS Harris, K Takahashi, JG Venegas, **BP Kavanagh**, MF Vidal Melo. Effects of ventilation strategy on distribution of lung inflammatory cell activity. Critical Care. 2013 Aug 15;17(4):R175. **Coauthor or Collaborator.**


**Non-Peer-Reviewed Publications**

**Book Chapters**

F Grasso, **BP Kavanagh**. Negative-Pressure Ventilation. Pediatric and Neonatal Mechanical Ventilation. In Press. **Senior Responsible Author.**

T Jaecklin, **BP Kavanagh**. Mechanisms of Ventilator-Induced Lung Injury. Pediatric and Neonatal Mechanical Ventilation. In Press. **Senior Responsible Author.**


Invited Lectures and Presentations

International


2013 Oct Invited Speaker. We give too much fluid in the OR; Refresher Course lecture: "Challenges in guideline creation" (moderator). American Society of Anesthesiologists Meeting. San Francisco, California, United States.
<table>
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<tr>
<th>Date</th>
<th>Invited Speaker/Invited Speaker</th>
<th>Event</th>
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<tbody>
<tr>
<td>2013 Aug</td>
<td></td>
<td><strong>Respiratory Support - What Should We Be Doing for Our Patients?</strong> (Chair) •...and CO2 is OK •Glucose control - is that the real goal, or have we missed the point? •Elimination of VAP - A Dream or a Real Possibility? Making Sense of it All (Panel) •Bundles are NOT what we need •How Do You Balance: Safety and Quality; Need for Increased Efficiency and Throughput; Coming within Budget? The Real Challenge Discussion (Panel).11th Congress of the World Federation of Societies of Intensive &amp; Critical Care Medicine. Durban, South Africa.</td>
</tr>
<tr>
<td>2013 Jun</td>
<td><strong>Invited Speaker.</strong></td>
<td>How ventilators injure lungs - one viewpoint •Testing therapies in ARDS - what happened to PEEP? •How good are your guidelines? Reasons for caution. 7th Alfred Advanced Mechanical Ventilation Conference (AAMVC). Melbourne, Australia.</td>
</tr>
<tr>
<td>2013 May</td>
<td><strong>Invited Speaker.</strong></td>
<td>Evidence based medicine: good and bad •VIIL and circulating mediators: what do we know? 24th SMART Congress. Milano, Italy.</td>
</tr>
<tr>
<td>2013 May</td>
<td><strong>Invited Speaker.</strong></td>
<td>How valid are guidelines? •Tight glucose control may be a bad idea •Normalizing parameters can be a bad idea •How do mechanical ventilators injury lungs? •Are protocols useful? BiAnnual Controversies in Perioperative Medicine. Beaune, France.</td>
</tr>
<tr>
<td>National</td>
<td><strong>Invited Speaker.</strong></td>
<td>Plenary RCT (co-moderator) •Debating (Sepsis) Guidelines: Doubts about bundles •Referring and Transporting our Sickest Patients (Co-Moderator) •Trial Registration Patterns in CCM •Obligations for End of Life Care in ICU (Co-Moderator). Critical Care Canada Forum 2013. Toronto, Canada.</td>
</tr>
</tbody>
</table>

**Honours and Awards**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>2013 Nov</td>
<td>Desmond Bohn Researcher of the Year Award, The Hospital for Sick Children and The University of Toronto. (Distinction, Specialty: Critical Care)</td>
</tr>
</tbody>
</table>
Invited Lectures and Presentations

National
2013 Dec  **Invited Speaker.** Build it and they will come: Tools to develop an interprofessional simulation-based education program. SIM-one. Toronto, Ontario, Canada.


Local
2013 Feb  **Invited Speaker.** ECMO Simulation - from Low to High - Customizing for experts by experts. Toronto General Hospital. Toronto, Ontario, Canada.
Dr. Peter Laussen (Hospital for Sick Children)

Non-Peer-Reviewed Fundings


2012 Feb - 2013 Jun  Principal Investigator. “Tracking, Trajectory & Trigger tool (T3)”. Boston Children’s Hospital. Provider-Payor Quality Initiative (PPQI).1,475,000 USD. [Grant]

Peer-Reviewed Publications

Journal Articles


Periodical Publications

Laussen PC and Patricia Hickey MSN MBA, (Eds). “Heart Murmurs”. A bi-yearly publication for physicians and nurses about the Cardiovascular Program at Children’s Hospital, Boston. 1998 to present.

Books (In Preparation)


Barach PR, Jacobs JP, Laussen PC, Lipshultz SE. Pediatric and Congenital Cardiac Disease: Outcomes Analysis, Quality Improvement, and Patient Safety.

Journal Articles (In Preparation)


Invited Lectures and Presentations

International


2013 Oct 25  **Invited Speaker.** “Modifiable Risk in Critical Care?”. National University Hospital, Hospital wide Grand Rounds. Singapore.


2013 Oct 23  **Invited Speaker.** “Cardiac Critical Care: Where is it going and what have we learned?”. PAME Grand Rounds, KK Women’s and Children’s Hospital. Singapore.

2013 Oct 23  **Invited Speaker.** “Cardiac Critical Care: Where is it going and what have we learned?”. National University Hospital, Department of Paediatrics Grand Rounds. Singapore.


2013 Oct 21  **Invited Speaker.** “Quality improvement and safety in ICUs”. Human Manpower Development Program, Visiting Expert in Paediatric Cardiac Intensive Care. Singapore.


2013 Oct  **Chair.** Paediatric medical free papers session. ANZICS / ACCN Intensive Care ASM 2013. Hobart, Tasmania, Australia.

2013 Feb 20  **Session co-moderator.** Perioperative Care: Quality and Safety (Co-Moderator with Chandra Ramamoorthy). 6th World Congress of Paediatric Cardiology & Cardiac Surgery. Cape Town, South Africa.

2013 Feb 19  **Invited Speaker.** “Infection control as a cost-saving investment”. 6th World Congress of Paediatric Cardiology & Cardiac Surgery. Cape Town, South Africa.

2013 Feb 19  **Invited Speaker.** “New approach to data capture and analysis in the ICU: T3” (Dinner symposium, Labatt Family Heart Centre, Hospital for Sick Children). 6th World Congress of Paediatric Cardiology & Cardiac Surgery. Cape Town, South Africa.

2013 Feb 18  **Invited Speaker.** “The anaesthetist as intraoperative intensivist”. 6th World Congress of Paediatric Cardiology & Cardiac Surgery. Cape Town, South Africa.

National

Local

National Abstracts
Professional Educational Media Presentations
International


Peer-Reviewed Funding

2013 - 2014 **Principal Investigator.** Post factum: What of you could change the terms. Initial experiences with U/S guided lines. Pediatric Consultant’s Education Innovation Development Grant, The Hospital for Sick Children. $2898.50 CAD. [Grant]

Invited Lectures and Presentations

**International**

2013 **Invited Speaker.** Crisis resource management principles. Pediatric Intensive Care Rounds, Hamad Medical Corporation, Doha, Qatar.

2013 **Invited Speaker.** “Post factum” – What if you could change the terms? Initial experiences of U/S guided lines AMEE 2013 - Colouring Outside the Lines, Prague, Czech Republic.

2013 **Invited Speaker.** In pursuit of optimal simulation training: Initial experiences with ultrasound guided line insertion. The Fourteenth Annual MHPE Summer Conference, Department of Medical Education, College of Medicine/University of Illinois at Chicago, USA.

**National**

2013 **Invited Speaker.** Post factum: What if you could change the terms. Initial experiences of novices with procedures Canadian Critical Care Trials Group.

2013 **Invited Speaker.** In search of the optimal bronchoscopy training platform: Developing a novel tool for training novice learners: Poster presentation. 2013 International Conference on Residency Education (ICRE), Calgary.

2013 **Invited Speaker.** “What have I gotten myself into?” General surgery blogs provide insight into the positive and negative realities of a surgical career: Poster presentation (Presenter(s): Knox A, Reddy S, Mema B, DeMoya M, Harris I.) International Conference on Residency Education (ICRE), Calgary.

2013 **Invited Speaker.** Post factum: What if you could change the terms? Initial experiences with ultrasound guideline. International Conference on Residency Education (ICRE), Calgary.
2013  **Invited Speaker.** Transfer of Learning: Simulation to Bedside. Critical Care Research Rounds (Special Presentation on Education), Hospital for Sick Children, Toronto, Canada.

2013  **Invited Speaker.** Preparing a Dossier: Co presenter. Education Scholars Program, Centre for Faculty Development, University of Toronto, 2013
Peer-reviewed Publication

Journal Article


Senior responsible author
**Dr. Christopher Parshuram (Hospital for Sick Children)**

**Peer-Reviewed Funding**
2013 -2014  **Principal Investigator.** RESPECT: a tool to improve patient care quality and safety & facilitate team learning. Canadian Institutes of Health Research (CIHR). Collaborator(s): DRYDEN-PALMER, Karen D; MEMA, Briseida; NADKARNI, Vinay; TIJSSEN, Janice A (Co-applicants). $90,821 CAD [Grant]

**Peer-reviewed Publications**

**Journal Articles**


Parker MJ, Parshuram CS, Sodium Bicarbonate Use in Shock and Cardiac Arrest: Attitudes of Pediatric Acute Care Physicians Crit Care Med. 2013 Sep;41(9):2188-95  **Senior Responsible Author**

Ebrahim S, Parshuram C, Comparison of utility scores from the Visual Analog Scale and Health Utilities Index 3 in children following pediatric intensive care unit admission., Journal of child health care: for professionals working with children in the hospital and community, Aug 2013.  **Senior Responsible Author**


Invited Lectures and Presentations
International
2013 Apr Invited. BedsidePEWS a screening tool to prevent cardiac arrest in children.", King’s College Hospital, United Kingdom, London.
2013 Apr Invited. Re-introducing BedsidePEWS a screening tool for daily use.", King’s College Hospital, United Kingdom, London.
2013 Apr Invited. EPOCH and BedsidePEWS implementation.", King's College Hospital, United Kingdom, London.
2013 Apr Invited. EPOCH and BedsidePEWS Implementation.", St. Mary's Hospital, United Kingdom, London.
2013 Apr Invited. Improving care through recognition and response, Tauranga Hospital, New Zealand, Tauranga, Bay of Plenty

Provincial
Dr. Steven Schwartz  (Hospital for Sick Children)

Peer-Reviewed Funding
2013-2014  **Co-Investigator.** (Canadian Anaesthesiologists’ Society) – Improving Precision: Randomized Control Trial of Milrinone Therapeutic Drug Monitoring. (Principal Investigator: Katherine Taylor, Co-Investigator: Chris Parshuram) - $20,000 CAD [Grant]

Peer-reviewed Publications

Journal Articles


**Schwartz SM, SchmidtA.:** Medical and nursing care of the child on mechanical circulatory support. Pediatr Crit Care Med. 2013 Jun;14(5 Suppl 1):S43-50. **Principal Author/Senior Responsible Author**


Editorials

Schwartz SM. Life in the Fast Lane: Nighttime Extubation in the Pediatric Cardiac Critical Care Unit. Pediatr Crit Care Med 2013; In Press. Principal Author


Book Chapters


**Senior Responsible Author**


**Abstracts**

2013 Nov **Trainee Presentation.** Eini ZM, Floh AA, The Hospital for Sick Children, Toronto, ON, Canada; Freedman SB, Alberta Children’s Hospital, Calgary, AB, Canada; Humpl T, Schwartz SM, Sivarajan VB, The Hospital for Sick Children, Toronto, ON, Canada. Clinical Outcomes of Pediatric Myocarditis. Presented at the American Heart Association Scientific Sessions 2013. Dallas, TX.


Invited Lectures and Presentations

International

2013 Dec  **Visiting Professor.**  King Faisal Specialist Hospital, Riyadh, Saudi Arabia.
2013 Dec  **Invited Speaker.**  Heart Center Grand Rounds: It’s not just the inotropes: heart failure management in the ICU.  King Faisal Specialist Hospital, Riyadh, Saudi Arabia.
2013 Dec  **Invited Speaker.**  Physiology in the Cardiac Critical Care Unit.  King Faisal Specialist Hospital, Riyadh, Saudi Arabia.
2013 Oct  **Invited Faculty.**  Moderator: Session 3: Acute Heart Failure Syndromes (Part II): Optimizing Treatment.  2013 Pediatric Heart Failure Summit, Houston, Texas.
2013 Oct  **Invited Speaker.**  Pulmonary Hypertension in Heart Failure.  2013 Pediatric Heart Failure Summit. Houston, Texas.
2013 May  **Visiting Professor.**  Pain and sedation in the pediatric cardiac ICU.  West China Hospital #1, Chengdu, China.

Provincial

2014 Jun  **Invited Faculty.**  Chair: Complex Decisions in the Congenitally Malformed RV. The 3rd Toronto RV Symposium. Toronto, Ontario.
2014 Jun  **Invited Speaker.**  Postop SIRS – Can we avoid it? The 6th Cardiac Symposium: Non-Structural Heart Disease in Children. Toronto, Ontario.
2013 Apr  **Invited Speaker.**  Approach to diagnosis and initial stabilization of the newborn with heart disease.  Annual Paediatric Update Conference, Toronto, Ontario.
Dr. Ben Sivarajan (Hospital for Sick Children)

Peer-Reviewed Publications

Journal Articles


Abstracts

2013 Nov Clinical Outcomes of Pediatric Myocarditis. Presented as an oral abstract at the AHA Scientific Sessions 2013, Dallas, Texas. Eini ZM, Floh AA, The Hospital for Sick Children, Toronto, ON, Canada; Freedman SB, Alberta Children’s Hospital, Calgary, AB, Canada; Humpl T, Schwartz SM, Sivarajan VB, The Hospital for Sick Children, Toronto, ON, Canada. *(Trainee presentation)*
**Invited Lectures and Presentations**

**International**

2013 Jul  **Invited Attendee.** 2013 National Pediatric Organ Donation Summit for the Donation and Transplantation Community of Practice, Sheraton Fort Worth Hotel, Fort Worth, Texas, USA.

**National**


**Local**

2013 Sep 24  **Invited Speaker.** Organ Donation and Neurological Determination of Death. CCU Fellows Teaching.

2013 Sep 3  **Invited Speaker.** Living Related Donation in Context of Palliative Care, Bioethics Rounds.

2013 Sep 3  **Invited Speaker.** Cardiopulmonary Interactions II, CCU Fellows Teaching.

2013 Jul 23  **Invited Speaker.** Cardiopulmonary Interactions. CCU Fellows Teaching.

2013 Apr 9  **Invited Speaker.** Donation after Cardiac Death, Neurological Determination of Death and Organ Donation. CCU Fellows Teaching.

2013 Feb 20  **Invited Speaker.** What Determines How Many Ventricles the Patient Will Get? (1 or 2 or 1 1/2 Ventricular Repair). Interprofessional Acute Care Paediatric Cardiology Certificate - Level 2, Course Code: 4083, George Brown College & SickKids Labatt Family Heart Centre.
Peer-Reviewed Fundings


2012 Apr - 2013 Sep  Co-Investigator. One day Point Prevalence Study of Acute Rehabilitation in Ontario Intensive Care Units: Rates of, Barriers to and Facilitating Factors for Mobilization. Physicians’ Services Incorporated Foundation. PI: Koo, Karen. 58,234.9 CAD. [Grant]

2012 Apr - 2013 Mar  Co-Investigator. One-day Point Prevalence of Acute Rehabilitation in Canadian Intensive Care Units: Rates of, Barriers to and Facilitating Factors for Mobilization. Academic Medical Organization of Southwestern Ontario AFP Innovation Fund. PI: Koo, Karen. 102,183.9 CAD. [Grant]

Peer-Reviewed Publications
Journal Articles
Burns KE, Meade MO, Premji A, Adhikari NK. Noninvasive positive-pressure ventilation as a weaning strategy for intubated adults with respiratory failure. Cochrane database of systematic reviews. 2013 Dec 9;12:CD004127. Senior Responsible Author


Abstracts


Book Chapters


Manuals

WHO Global Influenza Programme Critical care training: Severe forms of influenza infection, including severe pneumonia, acute lung injury, severe sepsis, and septic shock. (Switzerland): WHO Press; 2013. Principal author for 6 chapters; Editor of overall manual

WHO interim guidance document

Abstract


Letter to Editor


Invited Lectures and Presentations

International


2013 Aug 29 Invited Speaker. The Future Lies in the Creation of Specialist Centres (ECMO, cardiac arrest, obstetrics ICUs) to Optimise Care of the Critically Ill Patient: Con. World Federation of Societies of Intensive and Critical Care Medicine. Durban, South Africa.

National


Local

2013 Apr 17  Invited Speaker. Results of the OSCILLATE RCT. Critical Care Practice Council. Toronto, Ontario, Canada.

Peer-Reviewed Funding

2013 Jul - 2015 Jul **Co-Investigator.** Bridging the gap: Implementing a complex intervention to improve communication and collaboration between surgeons and intensivists in a closed Intensive Care Unit. AFP. PI: Nathens, Avery B. Collaborator(s): Cuthbertson, Brian H; Coburn, Natalie; Nusdorfer, Linda; Amaral, Andre C.; Gotlib Conn, Lesley; Betts, Martin; Haas, Barbara. 92,126 CAD. [Grants]

2012 Mar - 2014 Feb **Co-Investigator.** Sepsis: Early antibiotics and resuscitation to control infected patients in Emergency Departments (SEARCHED Study). Association of Fundraising Professionals (AFP). PI: Hayes, Chris. Collaborator(s): Bandiera, Glen; Gray, Sara; Barratt, Lee; Gaunt, Karen; Baker, Andrew; Amaral. Andre C K B; Lee, Jacques. 82,455 CAD. [Grants]

2011 Jul - 2013 Jun **Co-Investigator.** Problem-based learning for postgraduate critical care training: Implementation and dissemination of a new curriculum to promote CanMEDs roles. RCPSC. CanMEDs research and development grant. PI: Piquette, Dominique. Collaborator(s): Dev, Shelly; Amaral, Andre. 24,876 CAD. [Grants]

Peer-Reviewed Publications

Journal Articles

Abstract


D'Empaire P, Amaral A. Frequency And Quality Of Handover Between The Operating Room And The Intensive Care Unit. American Thoracic Society. Study design and concept, data collection, data analysis, abstract writing. Senior Responsible Author

Haas, Gotlib Conn, Amaral, Kitto, McCormick, McLeod, Scales, Rubenfeld, Ferguson, Rotstein, Nathens. It’s parallel universes: an analysis of communication between surgeons and intensivists collaborating in the Intensive Care Unit. American Association for the Surgery of Trauma. Study design and concept, data analysis, abstract writing (Trainee publication).

Coauthor or Collaborator

Online course

Non-Peer-Reviewed Publication

Journal Article

Amaral A. The Venous saturation paradox: measure it early, but leave it alone afterwards. Crit Care Med. 2013 Jun. Principal Author

Book Chapter


Editorials


In Preparation

Amaral A, Holder M. Assessment of patterns of antimicrobial administration in ventilator-associated pneumonia. Study design and concept, data collection, data analysis, manuscript writing. Principal Author.

Submitted Publications

Journal Articles

Barros B, MD1; Barros C, MD1; Pinto R, PhD (Stat)1; Rubenfeld G, MD, MSc1, 2; Amaral A, MD1, 2. The effects of weekday nighttime coverage on clinical decisions in critically ill patients. Intensive Care Medicine. Data collection, study concept and design, data analysis, manuscript writing. Senior Responsible Author.

Amaral A 1, Fowler R 1, Pinto R 1, Rubenfeld G 1, Ellis P 2, Bookatz B 3, Marshall J 4, Martinka G 5, Keenan S 6, Laporta D 7, Roberts D 8, Kumar A 8, and the Cooperative Antimicrobial Therapy of Septic Shock (CATSS) Database Research Group. Patient and organizational factors associated with delays in antimicrobial therapy for septic shock. Am J Respir Crit Care Med. Study concept and design, data analysis, manuscript writing. Principal Author.
Ferreyro, Bruno; Angriman, Federico; Giunta, Diego; Lourdes, María; Martínez, Posadas; Vazquez, Fernando; Fernán, Gonzalez Bernaldo de Quirós; Amaral, Andre C. K. B. Scales, Damon C. A predictive score for estimating cancer and death after venous thromboembolism. Chest. Study design and concept, data analysis, manuscript writing. Coauthor or Collaborator.


Invited Lectures and Presentation

Local

2013 May 2 Invited Speaker. Preventing Catheter Borne Infections. Department of Medicine, Hospital Medicine Education Rounds. Toronto, Ontario, Canada. Presenter(s): Amaral A. (Trainee Presentation).
Dr. Martin Chapman  (Sunnybrook Hospital)

Peer-Reviewed Funding


Peer-Reviewed Publication

Journal Article
Peer-Reviewed Funding
2012 Apr - 2016 Mar **Principal Investigator.** The METS (Measurement of Exercise Tolerance before Surgery) Study: An International Multicentre Prospective Cohort Study of Cardiopulmonary Exercise Testing For Improving Preoperative Risk Stratification for Major Non-Cardiac Surgery. Canadian Institutes of Health Research. Operating Grant. Collaborator(s): BEATTIE, William S; CHAN, Vincent W; CROAL, Bernard L; GRANTON, John T; HOCH, Jeffrey S; MAMDANI, Muhammad; MAZER, David; MCCARTNEY, Colin J; OH, Paul; PEARSE, Rupert; SMITH, Andrew J; THORPE, Kevin E; WIJEYSUNDERA, Harindra C. $987,066 CAD. [Grant]

Non-Peer-Reviewed Fundings
2013 Oct - 2015 Mar **Principal Investigator.** Intensive Care Rehabilitation Study (ICARuS): Barriers to Early Physical Rehabilitation in the ICU - A Delphi Study. Canadian Institutes of Health Research (CIHR). Operating Grant. $84,627 CAD. [Grant]

2013 Jul - 2016 Jun **Principal Investigator.** The METS (Measurement of Exercise Tolerance before Surgery) Study: An International Multicentre Prospective Cohort Study of Cardiopulmonary Exercise Testing For Improving Preoperative Risk Stratification for Major Non-Cardiac Surgery. Heart and Stroke Foundation of Ontario (The) (HSFO). Grant in Aid. $144,000 CAD. [Grant]

Peer-Reviewed Publications

Journal Articles


Principal Author

Abstract

Book Chapter
Amaral, A; Sud, S; Eddleston, J; Waldmann, C; Young, K; Cuthbertson, BH. Critical Care informatics, management and outcome: Quality assurance and cost-effectiveness. PACT (Patient-centred Acute Care Training), a product of the European Society of Intensive Care Medicine (ESICM), is an up-to-date, on-line, modular curriculum for Intensive (Critical) Care Medicine. It is an educational resource aimed at advancing and harmonising the quality of Acute and Critical Care Medicine training and practice. Coauthor or Collaborator
Goddard S, Cuthbertson BH. Post-ICU follow up Clinics - The Legacy of Critical Care. Oxford University press in print. Coauthor or Collaborator
Reader T, Flin R, Cuthbertson BH. Factors affecting team communication in the intensive care unit. In Nemeth, C. Improving healthcare team communication: lessons from aviation. Ashgate. In Press. **Senior Responsible Author**

**Other Publication**


**Invited Lectures and Presentation**

**Local**

2013 Apr 25 **Invited Speaker**. Team Work in the ICU, Research Rounds. Department of Critical Care Medicine at Sick Kids. Presenter(s): Cuthbertson B.

**International**

**Abstracts and Other Papers**

Peer-Reviewed Fundings

2012 Jul - present  **Consultant/Producer.** Numbers and Narratives: Examining the effects of two types of structured feedback on internal medicine residents' recall and subsequent generation of learning goals after feedback. University of Toronto, Department of Medicine. Educational Scholarship & Research Competition. PI: Stroud, Lynfa. $10,000 CAD. [Contracts]

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. Educational Development Fund Grant. Collaborator(s): Chow, Chi-Ming and Bandiera, Glenn. $4,993 CAD. [Grant]

2010 Nov - present  **Co-Investigator.** Multimedia Teaching Tools: A Video Series on Splinting Techniques. Sunnybrook Health Sciences Centre. ACMS Fund. PI: Dev, Shelly & Stefan, A. $10,000 CAD. [Grant]

2008 Mar - present  **Consultant/Producer.** Lung Injury Knowledge Network, Educational Website Development. National Heart, Lung, and Blood Institute (NHLBI) (USA). PI: Rubenfeld, Gordon D. $1,500,000 USD. [Grant]

Non-Peer-Reviewed Funding

2012 Jul - present  **Consultant/Producer.** Just Wash Your Hands. Sunnybrook Health Sciences Centre. Infection Control. Collaborator(s): De Mendonca, Ben. $30,000 CAD. [Contract]
Non-Peer-Reviewed Publications

Journal Articles


Multimedia


Invited Lectures and Presentations

National


Local


2013 May Invited Speaker. Little Brother is Watching: Role Models, Professionalism and The Hidden Curriculum. Postgraduate Year 3 Academic Half Day, Department of Medicine, Faculty of Medicine, University of Toronto. Toronto, Ontario, Canada. (Trainee Presentation).

2013 Apr Developer/Facilitator. The Teaching Dossier: An Educator’s Tale. Education Scholar’s Program, Centre for Faculty Development, Faculty of Medicine, University of Toronto. Ontario, Canada. Presenter(s): S Dev, B Mema. A faculty-development workshop created to instruct faculty on how to begin the preparation of a teaching dossier.
Peer-Reviewed Fundings


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. [Grant]

2012 - 2014  **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, Jennifer. $65,376 CAD. [Grant]


2012 - 2014  **Primary Investigator.** Regional and temporal variations in incidence, prevalence and outcomes of critical illness among pregnant and post-partum women and newborns in Canada. Canadian Institutes of Health Research (CIHR). Collaborator(s): Damon Scales, Stephen Lapinsky, Joel Ray, Ruxandra Pinto, Kazu Aoyama. $41,325 CAD. [Grant]


2012 - 2014 Jun  **Principal Investigator.** Optimizing duration of antibiotic therapy for bloodstream infections. Physicians Services Incorporated Foundation (The) (PSI). $167,000. [Grant]
2011 Apr - 2014 Mar  **Co-Investigator.** Understanding Long-Term Mechanical Ventilation in Canada: A Programmatic Approach. Canadian Institutes of Health Research (CIHR). Collaborator(s): AMIN, Reshma; MAWDSLEY, Cathy; FAN, Eddy; FOWLER, Robert A; FRASER, Ian M; GOLDSTEIN, Roger S; KATZ, Sherri L; KING, Judith A; LEASA, David J; MCKIM, Douglas; NONOYAMA, Mika L; ROAD, Jeremy D; RUBENFELD, Gordon. $349,863 CAD. [Grant]

2011 - 2013  **Principal Investigator.** Comparison of End-of-Life Care in Canada and the United States. The Commonwealth Fund.$ 20,000 CAD. [Grant]


2011 - 2013  **Principal Investigator.** A National Comparison of Intensity of End-of-Life Care in Canada: Defining Changing Patterns, Risk Factors and Targets for Intervention. Canadian Institutes of Health Research. $99,208 CAD. [Grant]

**Peer-Reviewed Publications**

**Journal Articles**


Non-Peer-Reviewed Publications
Journal Articles
Abstracts
Alali A, Mainprize T, Scales D, Fowler R, Kiss A, Tien H, Nathens AB. ICP Monitoring in Severe TBI. Coauthor or Collaborator
Alali A, Kiss A, Fowler R, Scales DC, Mainprize T, Ray J, de Mestral C, Nathens A. Tracheostomy timing in isolated traumatic brain injury. **Coauthor or Collaborator**


**Book Chapters**

Hammer M, Fowler R. International Variation on End of Life Care. In Press. **Senior Responsible Author**

Fowler R, Thirugnanam S, Sud S. Prophylaxis in the ICU. In Press. **Principal Author.**

Duggal A, Fowler R. Pandemic Management: Patient Care and ICU Management During Viral Respiratory Outbreaks and Pandemics. In Press. **Senior Responsible Author**

**Invited Lectures and Presentations**

**International**


2013 May 11 **Invited Speaker.** Fowler RA. Establishing a Critical Care Research Network. Inaugural Meeting of the Latin American Clinical Trials Investigator Network (LACTIN). Santiago, Chile.

2013 May 10 **Invited Speaker.** Fowler RA. Cuidados del Paciente la Poblacion Durante Pandemias o Epidemias y Enfermedad Critica. 11th Simposio Internacional Emergencias Medicas y Paciente Critico. Santiago, Chile.
National

2013 Jun 18  **Invited Lecturer.** Fowler RA. Severe Respiratory Illness Surveillance Systems in Canadian ICU’s. Canadian Critical Care Trials Group. Quebec City, Quebec, Canada.


Local

2013 Jun 19  **Invited Speaker.** Fowler RA. End of Life Care in Canada and the United States. University of Toronto Faculty of Medicine, Department of Medicine City-wide Grand Round. Toronto, Canada.

2013 Jun 4  **Invited Speaker.** Fowler RA. Sedation in the ICU. Sunnybrook Hospital Ross Tilley Burn Centre Day. Toronto.

2013 Apr 22  **Invited Speaker.** University of Toronto Internal Faculty of Medicine Interest Group Speaker Series. University of Toronto.

2013 Apr 3  **Invited Speaker.** Glucose Control for Critically Ill Patients. Sunnybrook Hospital Department of Critical Care Medicine Grand Rounds. Toronto, Ontario, Canada. Presenter(s): Fowler RA.

2013 Mar 27  **Invited Speaker.** End-of-Life Care in Ontario. Sunnybrook Hospital Department of Critical Care Medicine Grand Rounds. Toronto, Ontario, Canada. Presenter(s): Fowler RA.

2013 Mar 6  **Invited Speaker.** End-of-Life: Medico-Legal Perspective. University of Toronto Department of Medicine Senior Residents Academic Day. Toronto, Ontario, Canada. Presenter(s): Fowler RA.
Peer-Reviewed Funding

October 2013 – Present  **Co-Principal Investigator** (Mentored by B.H. Cuthbertson).
Intensive Care Rehabilitation Study (ICARuS): Barriers to Early Physical Rehabilitation in the ICU - A Delphi Study. Canadian Institutes of Health Research (CIHR). CUTHBERTSON, Brian H., GODDARD, Shannon, FAN, Eddy; FRANCIS, Jillian J; GODDARD, Shannon L; KHO, Michelle E; ROSE, Louise; RUBENFELD, Gordon. $84627 CAD.[Grant]

Non-Peer-Reviewed Publications

Journal Articles


Abstract


Invited Lectures and Presentations

National

2013 Nov  **Presenter**, Canadian Critical Care Forum – “Barriers to Early Rehabilitation in Mechanically Ventilated Patients”

Local

2013 Jun 25  **Presenter**, University of Toronto Critical Care Medicine Residents’ Day – “On Track to Mobilize Critically Ill Patients – What’s the Hurdle?”

2013 May 23  **Presenter**, University of Toronto General Internal Medicine PGY1 Academic Half Day – “Your First Day on Call as a Senior Resident”
Invited Lecture and Presentation

Local

2013  Invited Guest. Transition to Practice - Tax and Incorporation. University of Toronto Anaesthesia residency training program.


Peer-Reviewed Publications

Journal Articles


Abstracts & Posters


Non-Peer-Reviewed Publications

Book Chapter


Manuscript

Work in Progress
McCredie VA, Hare G. Role of Brain Tissue Hypoxia in Traumatic Brain Injury associated with poor outcome. (Manuscript in preparation)

Invited Lectures and Presentations
National

Provincial

Local
Peer-Reviewed Funding


Peer-Reviewed Publications

Journal Articles


Invited Lectures and Presentations

International

Aug 2013  **Invited Presenter.** The dual role towards patient care and learning assumed by medical trainees and their supervisors during clinical activities. Piquette D. Rogano Conference, Prague, August 2013. (Oral presentation)


Local


### Peer-Reviewed Fundings

<table>
<thead>
<tr>
<th>Date Range</th>
<th>Role</th>
<th>Title</th>
<th>Principal Investigator</th>
<th>Funding Agency</th>
<th>Grant Amount</th>
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<tbody>
<tr>
<td>2010 Apr - 2015 Mar</td>
<td>Principal Investigator</td>
<td>Trauma System Development in Canada: Overcoming the challenges of geography through an evaluation of structure and process.</td>
<td>Nathens, Avery</td>
<td>Canadian Institutes of Health Research (CIHR).</td>
<td>$400000 CAD.</td>
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</table>


**Peer-Reviewed Publications**

**Journal Articles**


Invited Lectures and Presentations
International

2013 Nov 6  **Chair.** Contemporary topics in clinical management Part II, 2013 Sepsis Rio - International Symposium, Brazil, Rio de Janeiro

2013 Nov 5  **Moderator.** Can Surviving Sepsis Campaign bundles help?, Sepsis 2013 Rio - International Symposium, Brazil, Rio de Janeiro

2013 Nov 5  **Moderator.** Respiratory end points of resuscitation, 2013 Sepsis Rio – International Symposium, Brazil, Rio de Janeiro

2013 Oct 22  **Speaker.** Long Term Outcomes after Critical Illness: How Bad? How Fixable?*, Medical University of South Carolina Grand Rounds - John C. Mithoefer Visiting Professorship, United States, South Carolina, Charleston

2013 Sept 20  **Speaker.** Measuring parameters in the ICU”, The Long Island Jewish Medical Center Divisional Grand Rounds, United States, New York, New Hyde Park

2013 Jul 5  **Speaker.** Pro/con debate: In austerity Britain, critical care research should focus on quality improvement rather than on basic science", UK Critical Care Research Forum, London United Kingdom

2013 Jul 4  **Speaker.** Selection criteria for ARDS trials: potential impact of recent changes. UK Critical Care Research Forum, United Kingdom, London

2013 Jul 3  **Speaker.** Observational studies I wish I’d done - and two that I did. UK Critical Care Research Forum - Post-Graduate Course in Observational Research in Critical Care, United Kingdom, London

2013 Jul 3  **Speaker.** Moving beyond mortality – generating helpful and important outcome Measures. UK Critical Care Research Forum - Post-Graduate Course in Observational Research in Critical Care, United Kingdom, London

2013 Jul 2  **Speaker.** Myths of evidence based medicine. Critical Care Visiting Professorship Lecture - Queen Elizabeth Hospital Birmingham, United Kingdom, Birmingham

2013 May 21  **Speaker.** ICU Organization And Systems”, American Thoracic Society International Conference 2013, United States, Pennsylvania, Philadelphia

2013 May 21  **Speaker.** Are These Problems Unique To ICU Patients?American Thoracic Society Annual Conference 2013, United States, Pennsylvania, Philadelphia


2013 Apr 25 Speaker. If There are No Magic Bullets: System Improvements in Critical Care. University of Washington - Medicine Grand Rounds, United States, Washington, Seattle

2013 Mar 22 Speaker. Refractory hypoxemia - Salvage therapies in ARDS. International Symposium on Intensive Care and Emergency Medicine (ISICEM), Belgium, Brussels

2013 Mar 22 Speaker. ARDS: Challenging the Berlin criteria - Can we do better? International Symposium on Intensive Care and Emergency Medicine (ISICEM), Belgium, Brussels


2013 Mar 21 Speaker. Are long-term outcomes any worse than for the rest of the hospital? International Symposium on Intensive Care and Emergency Medicine, Belgium, Brussels

2013 Mar 21 Speaker. Surviving the new Surviving Sepsis Guidelines”. International Symposium on Intensive Care and Emergency Medicine (ISICEM), Belgium, Brussels

2013 Mar 20 Speaker. CMV reactivation: To treat or not to treat? International Symposium on Intensive Care and Emergency Medicine, Belgium, Brussels

National

2013 Nov 12 Moderator. Critical Care Systems - Supply & Demand, Critical Care Canada Forum, Toronto, Ontario


2013 Nov 11 Moderator. End of Life and The Media, Critical Care Canada Forum 2013, Toronto, Ontario

2013 Nov 9 Moderator. How Berlin changed everything (or nothing…), CCCF/CCCS Residents’ Day 2013, Canada, Ontario, Toronto
Provincial
2013 Feb 21  Speaker. What We Have Here is a Failure to Communicate: End of Life Care in the ICU. 10th Annual Canadian Critical Care Conference, Canada, British Columbia, Whistler
2013 Feb 21  Speaker. Long-Term Outcomes After Critical Illness: Does the Hospital Make You Older Faster? 10th Annual Canadian Critical Care Conference, Canada, British Columbia, Whistler

Local
2013 Jun 4  Speaker. ARDS: an Update. 1st Annual Sunnybrook Burn Symposium, Toronto, Ontario
2013 Jan 14  Speaker. Acute Lung Injury. Sunnybrook Health Sciences Centre - Dept of Critical Care Medicine - ICU Seminar, Toronto, Ontario
Peer-Reviewed Fundings

2013 Sep - 2016 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. 2527. PI: Lauzier, François. Collaborator(s): Archambault P; Bernard F; Boutin A; Cook D; Gagnon D; Griesdale D; Herridge M; Houde G; Lamontagne F; McIntryre L; Menlon K; Moore L; Pagliarello G; Perron P; Rousseau F; Scales D; Turgeon A. $278,469 CAD. [Grant]

2013 Sep - 2016 Sep  Co-Investigator. Assessing and improving the quality of care of patients with out-of-hospital cardiac arrest. Canadian Institutes of Health Research. 2527. PI: Ko, Dennis. Collaborator(s): Austin P; Cheskes S; Dorian P; Morrison L; Rac V; Scales D; Stukel T; Tu J; Verbeek P; Wijeysundera H. $443,000 CAD. [Grant]


<table>
<thead>
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<th>Date Range</th>
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<td>$743,818 CAD. [Grant]</td>
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<td>$41,325 CAD. [Grant]</td>
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<td>$196,186 CAD. [Grant]</td>
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<td>$1,053,131 CAD. [Grant]</td>
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2012 Jul - 2014 Jun  Principal Investigator. Translating Evidence into Practice for Patients with Anoxic Brain Injury. Physicians Services Incorporated Foundation (The) (PSI). Fellowship in Translational Health Research. $300,000 CAD. [Grant]


2011 Oct - 2015 Sep  **Principal Investigator.** Initiation of Cooling by EMS to Promote the Adoption of in-hospital therapeutic hypothermia in Cardiac arrest Survivors -- ICE-PACS Randomized Controlled Trial. Canadian Institutes of Health Research (CIHR). Collaborator(s): Brooks SC, Cheskes S, Craig AM, Dainty KN, Darling S, Mamdani M, Morrison LJ, Perreira TA, Thorpe KE, Verbeek PR. $760,947 CAD. [Grant]


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 CAD. [Grant]


**Peer-Reviewed Publications**

**Journal Articles**


Abstracts


Editorials


Invited Lectures and Presentations

International


2013 Nov 12 **Moderator.** Quality of Care in ICU. Critical Care Canada Forum. Toronto, Ontario, Canada. Presenter(s): **Scales DC.** Plenary Address.

2013 Nov 11 **Moderator.** End of life in ICU session. Critical Care Canada Forum. Toronto, Ontario, Canada. Presenter(s): **Scales DC.**

2013 Nov 10  **Invited Speaker.** Should QI be research? Critical Care Canada Forum. Toronto, Ontario, Canada. Presenter(s): **Scales DC.**

2013 Sep 24  **Invited Speaker.** How to write a manuscript. Canadian Critical Care Trials Group Fellows Network. Ontario, Canada. Presenter(s): **Scales DC.**

2013 Aug 22  **Visiting Professor.** Improving post-resuscitation care for cardiac arrest survivors. University of Edinburgh. Scotland, Edinburgh, City of, United Kingdom. Presenter(s): **Scales DC.** Critical Care Grand Rounds.

2013 Jul 4  **Invited Speaker.** Research when the target is the ICU: quality improvement as a case study. UK Critical Care Research Forum. England, London, City of, United Kingdom. Presenter(s): **Scales DC.** Research Conference.


2013 Jul 3  **Invited Speaker.** Forming a research question. UK Critical Care Research Forum. England, London, City of, United Kingdom. Presenter(s): **Scales DC.** Post Graduate Course in Observational Research in Critical Care.


2013 May 1  **Invited Speaker.** Scales DC CCM/Pulm Grand Rounds “Don’t Just do it, prove it! Studying Interventions to improve Critical Care Quality. UPMC Grand Rounds. Canada. (Continuing Education).

2013 Apr 30  **Invited Speaker.** Scales DC Research conference“Saving Lives or QALYs”. UPMC Grand Rounds. Canada. (Continuing Education).

2013 Apr 30  **Visiting Professor.** Saving Lives or QALYs? University of Pittsburgh Medical Centre. Pittsburgh, Pennsylvania, United States. Presenter(s): Scales DC. Critical Care Research Series.

2013 Feb 21  **Invited Speaker.** Scales DC CCEB Seminar Series “Saving Lives or QALYs”. Center for Clinical Epidemiology and Biostatistics (CCEB), Perelman School of Medicine, University of Pennsylvania. Philadelphia, Pennsylvania, United States. (Continuing Education).


2013 Jan 22  **Invited Speaker.** Scales DC University of Alberta Fellows half day “Prognostication after Cardiac Arrest”. University of Alberta. Edmonton, Alberta, Canada. (Continuing Education).

**Provincial**


**National**

2013 Jan 26  **Invited Speaker.** Tracheostomy timing and extubation failure. Alberta Critical Care Society. Lake Louise, Alberta, Canada. Presenter(s): Scales DC.

2013 Jan 26  **Invited Speaker.** Unintended consequences of ICU admission: medication discontinuation and continuations. Alberta Critical Care Society. Lake Louise, Alberta, Canada. Presenter(s): Scales DC.


2013 Jan 22  **Invited Speaker.** Improving quality of ICU across multiple hospitals. University of Alberta Critical Care Grand Rounds. Edmonton, Alberta, Canada. Presenter(s): Scales DC.

**Local**

2013 Jul 26  **Invited Speaker.** Predicting neurological outcome after cardiac arrest, and the PremaTOR study. Critical Care Research Rounds, Dept of Critical Care Medicine, St. Michael’s Hospital. Toronto, Ontario, Canada. Presenter(s): Scales DC.

2013 Jun 4  **Invited Speaker.** Use of Sedation Interruption: Yes! These should be part of standard practice. 1st Annual National Burn Symposium, Ross Tiley Burn Centre, Sunnybrook Health Sciences Centre. Toronto, Ontario, Canada. Presenter(s): Scales, DC.
2013 May 23 **Invited Speaker.** Improving Post Resuscitation Care. William Osler Annual Critical Care Conference. Brampton, Ontario, Canada. Presenter(s): Scales DC.

2013 Apr 22 **Invited Speaker.** Outcomes after anoxic brain injury. Credit Valley Hospital. Toronto, Ontario, Canada. Presenter(s): Scales DC. Department of Critical Care Grand Rounds.

2013 Apr 11 **Invited Lecturer.** Improving Science through Pre-hospital Research. Toronto EMS headquarters. Toronto, Ontario, Canada. Presenter(s): Scales DC. Presentation to Toronto Emergency Medical Services Supervisors.


**Abstracts and Other Papers**


2013 Sep 18  **Presenter.** Tracheostomy timing in isolated traumatic brain injury: Propensity-matched cohort from the American College of Surgeons Trauma Quality Improvement Program. 72nd Annual Meeting of AAST and Clinical Congress of Acute Care Surgery. San Francisco, California, United States.


2013 Apr 27  **Presenter.** ICP Monitoring in Severe TBI: Results from the American College of Surgeons Trauma Quality Improvement Program. American Association of Neurological Surgeons. New Orleans, Louisiana, United States. Presenter(s): Aziz Alali, Todd Mainprize, **Damon Scales**, Robert Fowler, Alexander Kiss, Homer Tien, Avery B. Nathens. The 81st American Association of Neurological Surgeons Annual Scientific Meeting. (Trainee Presentation).

2013 Apr 27  **Presenter.** ICP Monitoring in Severe TBI: Results from the American College of Surgeons Trauma Quality Improvement Program. The 81st American Association of Neurological Surgeons Annual Scientific Meeting. New Orleans, Louisiana, United States. Presenter(s): Alali A; Mainprize T; **Scales D**; Fowler R; Kiss A; Tien H; Nathens AB. (Trainee Presentation).

2013  **Presenter.** Gender Differences in Access to Post-Arrest Care: A SPARC network cohort study. AHA meeting. Dallas, Texas, United States. Presenter(s): Abamson B; Bierman AS; Cheskes S; Dainty K; Dorian P; Fowler R; Gaudio M; Gray S; Kiss A; Morrison L; Parsons J; Rac VE, Racz E; **Scales D**; Slutsky A; Zwarenstein M. (Trainee Presentation).

Peer-Reviewed Fundings


2012 Apr - 2013 Mar **Co-Investigator.** The Intensive Care Environment as the Social Context for Decision-making for Patients with Chronic Critical Illness: A Critical Realist Review. University of Toronto. Connaught Grant. PI: Leung, Doris. $10,000 CAD. [Grant]


2012 Jan - 2013 Jan **Co-Investigator.** One-day Point Prevalence of Acute Rehabilitation in Canadian intensive Care Units: rates of, Barriers to and Facilitating Factors for Mobilization. AHSC AFP Innovation Fund. The Academic Medical Organization of Southwestern Ontario. PI: Koo, Karen. $102,183.9 CAD. [Grant]


**Peer-Reviewed Publications**

**Journal Articles**

Muscedere J, **Sinuff T**, Heyland DK, Dodek PM, Keenan SP, Wood G, Jiang X, Day AG, Laporta D, Klompas M, Canadian Critical Care Trials Group. The clinical impact and preventability of ventilator-associated conditions in critically ill patients who are mechanically ventilated. CHEST. 2013 Nov;144(5):1453-60. **Coauthor or Collaborator.**


Cooper AB, Sibbald R, Scales DC, Rozmovits L, **Sinuff T**. Scarcity: the context of rationing in an Ontario ICU. Crit Care Med. 2013 Jun;41(6):1476-82. **Senior Responsible Author.**


In Preparation


Sinuff T, Teixeira A, You J, Dodek PD, Heyland DK. For the ACCEPT Study Team and the Canadian Researchers at the End of Life Network (CARENET). Development of a Score to Assess Advance Care Planning: A modified Delphi Study (The ACCEPT Score). Principal Author.


Non-Peer-Reviewed Publications

Journal Articles


Abstracts
J.I. Cameron; L. Chan; A. Czerwonka; L.M. Chu; A.L. Matte; G. Tomlinson; N.D. Ferguson; S. Mehta; J. Friedrich; N. Adhikari; R. Fowler; F. Lamontagne; J. Rudkowski; H. Meggison; N. Ayas; Y. Skrobik; J. Batt; C.D. Santos; J. Flannery; S. Abbey; G.D. Rubenfeld; D.C. Scales; T. Sinuff; B. Cuthbertson; E. Fan; A. Slutsky; G. Leung; C. Lee; V. Lo; S. Mathur; C. Tansey; M.E. Wilcox; J.C. Marshall; D.J. Cook; A. Tan; A. Moody; M. Levasseur; M. Bayley; M.S. Herridge, MD. Long-Term Outcomes After Prolonged Mechanical Ventilation: Family Caregiver Outcomes From The Towards RECOVER Study. Am J Respir Crit Care Med. 2013;187:A4446. Coauthor or Collaborator.
M.S. Herridge; L.M. Chu; A.L. Matte; L. Chan; G. Tomlinson; N. Ferguson; S. Mehta; J. Friedrich; N. Adhikari; R. Fowler; F. Lamontagne; J.C. Rudkowski; H. Meggison; N. Ayas; Y. Skrobik; J. Batt; C. Dos Santos; J. Flannery; S. Abbey; G.D. Rubenfeld; D.C. Scales; T. Sinuff; B. Cuthbertson; E. Fan; A.S. Slutsky; G. Leung; A. Moody; M. Levasseur; M. Bayley; C. Lee; V. Lo; S. Mathur; A. Tan; C. Tansey; M.E. Wilcox; J.C. Marshall; D.J. Cook; J.I. Cameron. Long-Term Patient Outcomes After Prolonged Mechanical Ventilation: The Towards RECOVER Study. Am J Respir Crit Care Med. 2013;187:A3623. Coauthor or Collaborator.

Invited Lecture and Presentation
National
Peer-Reviewed Fundings

2013-present  **Primary Investigator.** Retrospective burden of illness analysis of massively transfused trauma patients. Novo Nordisk Canada. Manuscript in preparation. $20000 CDN. [Grant]

2013-present  **Co-Investigator.** Pharmacoeconomic analysis of burden of illness of massively transfused trauma patients. Manuscript in preparation. $40000 CDN. [Grant]
Peer-Reviewed Publications

Journal Articles


St-Onge M, Mandelzweig K, Marshall J, Scales DC, Granton J, Critical care trainees career goals and needs: a Canadian survey, accepted to the Can Resp J.

Books and Monographs


Invited Lectures and Presentations

International

2013 Sept Speaker. Metabolic acidosis in unstable poisoned patients, NACCT conference, Atlanta.

2013 Mar Speaker. Chun-Po SF, Blais R, Impact of training and practice setting on the physician’s opinion regarding the treatment of calcium channel blocker poisonings, Poster presented at the American College of Medical Toxicology Conference, Puerto Rico.
Provincial
2013 Nov Speaker. Vasopressors and inotropes: principles and evidences, Quebec Emergency Physicians Association Conference, Québec.
2013 Nov Speaker. The management of the poisoned patient in shock, Quebec Emergency Physicians Association Conference, Québec.
2013 Nov Speaker. Research at University of Toronto, Provincial Emergency Medicine Research Day, Québec.

National
Dr. Lorraine Tremblay  (Sunnybrook Hospital)

Peer-Reviewed Fundings

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. AFP Innovation Funding. PI: Chu,Peter; Chapman,Martin. Collaborator(s): Tien,Homer; Tremblay,Lorraine. $10,000 CAD. [Grant]


Peer-Reviewed Publications

**Journal Articles**

Ali J, Sorvari A, Henry S, Kortbeek J, **Tremblay L.** Advanced trauma operative management (ATOM) course - A 2-student to 1 faculty model. Journal of Surgical Research. **Coauthor or Collaborator.**

Abstracts


Invited Lectures and Presentations

International

2013 Apr 12 Chair. Injury Science Session. Trauma Association of Canada and Australasian Trauma Society. Whistler, Canada. Presenter(s): Dr. Russell L. Gruen; Dr. Bartalomeu Nascimento; Dr. Ernest (Gene) Moore. (Continuing Education).

Abstracts and Other Papers

Non-Peer-Reviewed Funding
2010 Jan - present  **Co-Investigator.** A Phase III International, Randomized, Double-Blind, Double-Dummy Study to Evaluate the Efficacy and Safety of 300mg or 600mg of Intravenous Zanamivir Twice Daily Compared to 75 mg of Oral Oseltamivir Twice Daily in the Treatment of Hospitalized Adults and Adolescents with Influenza (Protocol NAI11373). GlaxoSmithKline. PI: Dr. Allison McGeer. [Clinical Trials]

Peer-Reviewed Publications

**Journal Articles**

**Book Chapters**

**Editorials**
Invited Lectures and Presentations
Abstracts and Other Papers

2013 Nov  **Senior Responsible Author.** INTRA ARTERIAL CATHETERISATION - A quality improvement project comparing two styles of catheters. Critical Care Canada Forum. Toronto, Quebec, Canada. Presenter(s): Vagia T Campbell, RRT, Subhash Acharya MD, Maj Michael Christian MD.

**International**


**Provincial**


2013 Jun 26  **Instructor.** Teaching Trauma. Canadian Armed Forces Physician Assistant Course. Jun 24-26, 2013. (Continuing Education).


2013 Jun 24  **Instructor.** Teaching Trauma. Canadian Armed Forces Physician Assistant Course. Jun 24-26, 2013. (Continuing Education).

2013 Jun 19  **Instructor.** Teaching Trauma. Canadian Armed Forces Physician Assistant Course. (Continuing Education).

2013 Jun 18  **Instructor.** Teaching Trauma. Canadian Armed Forces Physician Assistant Course. (Continuing Education).

2013 Apr 29  **Instructor.** Simulation Workshop. Advanced Military Trauma Resuscitation Program - Canadian Forces Trauma Training. Montreal, Quebec, Canada. April 29-May 3, 2013. (Continuing Education).

2013 Apr 28  **Instructor.** Simulation Workshop. Advanced Military Trauma Resuscitation Program - Canadian Forces Trauma Training. Montreal, Quebec, Canada. (Continuing Education).
Instructor. Advanced Military Trauma Resuscitation Program. Canadian Forces
Trauma Training. Vancouver, British Columbia, Canada. (Continuing Education).

Instructor. Simulation Workshop. Advanced Military Trauma Resuscitation
Program - Canadian Forces Trauma Training. Vancouver, British Columbia,
Canada. (Continuing Education).

Instructor. Advanced Military Trauma Resuscitation Program - Disaster
Medicine. Canadian Forces Trauma Training. Vancouver, British Columbia,
Canada. (Continuing Education).

Instructor. Advanced Military Trauma Resuscitation Program - Hypothermia.
Canadian Forces Trauma Training. Vancouver, British Columbia, Canada.
(Continuing Education).

Instructor. Teaching Neurology. Canadian Armed Forces Physician Assistant
Course. Feb 4-7, 2013. (Continuing Education).

Instructor. Disaster Management. Advanced Military Trauma Resuscitation
Program - Canadian Forces Trauma Training. Montreal, Quebec, Canada. Jan
21-25, 2013. (Continuing Education).

Instructor. Neuro Trauma. Advanced Military Trauma Resuscitation Program -
(Continuing Education).

Instructor. Scenario 4 Abdominal/Pelvic/Massive Transfusion. Advanced Military
Trauma Resuscitation Program - Canadian Forces Trauma Training. Montreal,
Quebec, Canada. Jan 21-25, 2013. (Continuing Education).

Instructor. The Team Approach/Dynamics. Advanced Military Trauma
Resuscitation Program - Canadian Forces Trauma Training. Montreal, Quebec,

Instructor. Scenario 1 PEA. Advanced Military Trauma Resuscitation Program -
(Continuing Education).

Course Instructor. Fundamental Disaster Management. Society of Critical Care
Med Professional Development.
Peer-Reviewed Fundings


2013 Apr - 2014 Mar Principal Investigator. Developing A Bereavement Screening and Support Program for ICU Family Members at Risk of Complicated Grief. Ontario Ministry of Health and Long-Term Care. AHSC AFP Innovation Fund. Collaborator(s): Sinuff, Tasnim; Strachan, Derek; MacKinnon, Christopher; Siber, Klara; Hales, Sarah. $99,926 CAD. [Grant]

2012 Jul - 2014 Jun Principal Investigator. 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 (The). Royal College/AMS CanMEDS Research and Development Grant. Collaborator(s): Knickle, Kerry McNaughton, Nancy McDonald-Blumer, Heather. $22,642.5 CAD. [Grant]

2012 Jul - 2013 Jun Principal Investigator. 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? University of Toronto. Education Development Fund. Collaborator(s): Knickle, Kerry McNaughton, Nancy McDonald-Blumer, Heather. $12,971.26 CAD. [Grant]

2012 Jul - 2013 Jun Co-Investigator. DECIsion-making about goals of care for hospitalized medical patients: A multicentre, mixed-methods study. The DECIDE Study. Canadian Institutes of Health Research (CIHR). PI: Heyland, Daren. Collaborator(s): Dr. J. You, Dr. M. Alabert, Dr. J. Downar, Dr. D. Jayaraman, Dr. I. Ma, Dr. J. Shik, Dr. K. Brazil, Dr. R. Fowler, Mrs. J. Kryworuchko, Dr. A. Palepu, Dr. P. Strachan, Mr. A. Day, Dr. R. Ilan, Dr. F. Lamontagne, Dr. D. Roberts. $157,908 CAD. [Grant]
Peer-Reviewed Publications

Journal Articles


Weiss A, **Downar J**. Ontario Hospitals Are Not Using Palliative Care Performance Indicators in Their Balanced Scorecards. Journal of Pain and Symptom Management. 2013 Aug;46(2):e1-5 (Trainee publication). **Senior Responsible Author.**


## Invited Lectures and Presentations

### International

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<th>Date</th>
<th>Role</th>
<th>Topic</th>
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<tr>
<td>2013 Nov 26</td>
<td>Facilitator</td>
<td>Communication with Cancer Patients</td>
<td>Kuwait Cancer Control Centre. Kuwait City. Kuwait.</td>
<td>(Continuing Education).</td>
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<td>2013 Nov 24</td>
<td>Facilitator</td>
<td>Communication with Cancer Patients</td>
<td>Kuwait Cancer Control Centre. Kuwait City. Kuwait.</td>
<td>(Continuing Education).</td>
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### National

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<tr>
<td>2013 Oct 4</td>
<td>Presenter</td>
<td>Palliative Care, Quality, and everything that lies between....</td>
<td>Canadian Society of Internal Medicine Annual Meeting. Toronto, Ontario,</td>
<td>Canada. Presenter(s): J. Downar. (Continuing Education).</td>
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<tr>
<td>2013 May 30</td>
<td>Invited Speaker</td>
<td>“Palliative Care, Quality, and everything that lies between...”</td>
<td>Health PEI- 3rd Annual Prince Edward Island Palliative Care Conference.</td>
<td>Summerside, Prince Edward Island, Canada.</td>
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<td>2013 Mar</td>
<td><strong>Presenter.</strong></td>
<td>Palliative Care Referral and Outcomes in Lung Transplant Candidates. International Society of Heart and Lung Transplantation 33rd Annual Meeting. Montreal, Quebec, Canada. Presenter(s): Colman, RE; Singer, LG; Barua, R; Downar, J. Senior author (Trainee Presentation).</td>
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<td>2013 Jan 8</td>
<td><strong>Invited Speaker.</strong></td>
<td>Palliative Care, Quality, and everything that lies between. Grand Rounds, Institute for Clinical Evaluative Sciences. Toronto, Ontario, Canada. Learning objectives: Appreciate how the quality “agenda” can worsen end-of-life care.</td>
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<td><strong>Provincial</strong></td>
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<tr>
<td>2013 May 26</td>
<td>Invited Speaker. St. Joseph’s HealthCare ICU Rounds. “Palliative Care, Quality and everything that lies in between...”. Toronto, Ontario, Canada.</td>
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<tr>
<td>2013 Apr 24</td>
<td>Speaker. UHN Congenital Cardiac Centre- Academic Teaching Rounds.</td>
<td>Toronto, Ontario, Canada.</td>
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<td>2013 Mar 7</td>
<td>Presenter. CICC Innovation Rounds: Advance Care Planning at UHN.</td>
<td>Toronto, Ontario, Canada.</td>
<td>(Continuing Education).</td>
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<td>2013 Feb 15</td>
<td>Lecturer. Psychosocial Oncology and Palliative Care Grand Rounds- “Palliative Care and the Quality Agenda”. Department of Psychosocial Oncology and Palliative Care. Toronto, Ontario, Canada. (Continuing Education).</td>
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<tr>
<td>2013 Feb 13</td>
<td>Speaker. Pediatric Palliative Care Academic Rounds- “Palliative Care in the Critically Ill”. Division of Palliative Care, Hospital for Sick Children. Toronto, Ontario, Canada. Monthly Palliative Care Team Rounds at HSC.</td>
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**Media Appearances**

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<th>Date Range</th>
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<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 CAD</td>
<td>Grant</td>
</tr>
<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 CAD</td>
<td>Grant</td>
</tr>
<tr>
<td>2013 Jan - 2014 Dec</td>
<td>Principal Investigator</td>
<td>Clinical Practice Guideline for Mechanical Ventilation in Adults with ARDS.</td>
<td>American Thoracic Society.</td>
<td>$70,000 USD</td>
<td>Grant</td>
</tr>
<tr>
<td>2012 Mar - 2013 Jul</td>
<td>Co-Investigator</td>
<td>One Day Point Prevalence Study of Barriers to Acute Rehabilitation in Ontario Intensive Care Units.</td>
<td>Physician Services Incorporated (PSI) Foundation. PI: Koo KKY.</td>
<td>$58,234.9 CAD</td>
<td>Grant</td>
</tr>
<tr>
<td>2012 Mar - 2013 Feb</td>
<td>Co-Investigator</td>
<td>One Day Point Prevalence Study of Barriers to Acute Rehabilitation in Ontario Intensive Care Units.</td>
<td>Academic Health Sciences Centre AFP Innovation Fund. Academic Medical Organization of Southwestern Ontario -AMOSO. PI: Koo KKY.</td>
<td>$102,183.9 CAD</td>
<td>Grant</td>
</tr>
</tbody>
</table>
2012 Jan - 2013 Dec  Principal Investigator. Understanding Barriers to Early Rehabilitation in the Intensive Care Unit Using the Toronto ICU Registry (TICUR) Project. University of Toronto. Department of Medicine Strategic Planning Innovation Fund. $75,000 CAD. [Grant]


Non-Peer-Reviewed Fundings
2013 Oct - 2016 Sep  Principal Investigator. Prospective Evaluation of the Vision Alpha in Adults with Acute Lung Injury. Nihon Kohden Corporation. $297,000. [Industrial Grant]

2013 May - 2014 Apr  Principal Investigator. Implementing Real-Tim Monitoring of Mechanical Ventilation in the Intensive Care Unit Using Electrical Impedence Tomography. Mount Sinai Hospital Department of Medicine Physician Campaign. $41,000 CAD. [Industrial Grant]

Peer-Reviewed Publications
Journal Articles


Abstracts


Editorials


Goddard SL, Fan E. “. Only few find the way, some don’t recognize it when they do…” – can we “observe” causality? Critical Care Medicine. 2013. In Press. Senior Responsible Author.


Non-Peer-Reviewed Publications

Journal Articles


Submitted Publications

Journal Articles


Invited Lectures and Presentations

International

2013 Nov 16  **Invited Speaker.** Year in Review – Invasive Mechanical Ventilation. 59th Annual American Association for Respiratory Care (AARC) Congress. Anaheim, California, United States.

2013 Nov 16  **Invited Speaker.** Hypocapnia and Hypercapnia. 59th Annual American Association for Respiratory Care (AARC) Congress. Anaheim, California, United States.


Provincial


National


Local

2013 Jun 28  Invited Speaker. Mechanical Ventilation: Maximizing Lung Protection and ECMO. Perfusion Department, Toronto General Hospital. Toronto, Ontario, Canada.


Abstracts and Other Papers

Dr. Niall Ferguson (University Health Network – TGH and TWH)

Peer-Reviewed Fundings


2013 - 2018  Linking Ventilator-Induced Diaphragm Dysfunction and Weaning Failure due to Diaphragm Inactivity During Mechanical Ventilation. Principal Investigator: Goligher EC. **Supervisors:** ND Ferguson, BP Kavanagh. Canadian Institutes of Health Research Postdoctoral Fellowship. $275,000 CAD. [Grant]


2012 - 2013  A Phase 1 Study: The Determination of the Maximum Tolerable Dosage of Sodium Nitroprusside in Adult Acute Lung Injury. Principal Investigators: T Ip, S Mehta. Co-investigators: ND Ferguson, L Burry, J Trail, C Harris. The Physicians’ Services Incorporated Foundation. $20,000 CAD. [Grant]

2012 - 2014  Understanding Barriers to Early Rehabilitation in the ICU Using the Toronto ICU Registry (TICUR) Project. Principal Investigator: E Fan. Co-Investigators: ND Ferguson, DC Scales, GR Rubenfeld. University of Toronto – Department of Medicine Strategic Innovation Fund. $75,000 CAD. [Grant]


Peer-Reviewed Publications

Journal Articles


Contributions to Original Research – Group Authorship


Review Articles, Letters and Editorials


Goligher EC, **Ferguson ND**. Re-evaluating High Frequency Oscillation for ARDS: Would a Targeted Approach be More Successful? Critical Care 2013; 17:133. Editorial. Senior responsible author

**Original Investigations**


**Book Chapters**


**Abstracts**

EC Goligher, F Laghi, **ND Ferguson**. A Window into Diaphragm Kinetics: feasibility, precision, and physiological meaning of diaphragm thickness. Critical Care 2013; 17(suppl2);P145.


**Invited Lectures and Presentations**

**International**

2013 Oct 19 **Speaker**. The Future of Critical Care Medicine – Challenges & Opportunities. 4th Shanghai Oriental Respiratory Forum, Chinese Association for Bronchology & Interventional Pulmonology, Shanghai, China.

2013 Oct 19 **Speaker**. Patient-Ventilator Interactions. 4th Shanghai Oriental Respiratory Forum, Chinese Association for Bronchology & Interventional Pulmonology, Shanghai, China

2013 Oct 18 **Speaker**. Lung-Protective Ventilation – How to set tidal volume & PEEP. 4th Shanghai Oriental Respiratory Forum, Chinese Association for Bronchology & Interventional Pulmonology, Shanghai, China.
<table>
<thead>
<tr>
<th>Date</th>
<th>Title</th>
<th>Location</th>
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<tbody>
<tr>
<td>2013 Oct 9</td>
<td><strong>Speaker.</strong> High-Frequency Oscillatory Ventilation in ARDS. European Society of Intensive Care Medicine Annual Congress, Paris, France</td>
<td></td>
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<tr>
<td>2013 Oct 9</td>
<td><strong>Speaker.</strong> Mechanical Ventilation in Cystic Fibrosis. European Society of Intensive Care Medicine Annual Congress, Paris, France</td>
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<tr>
<td>2013 Oct 8</td>
<td><strong>Speaker.</strong> How Do I Manage Hypoxemia. European Society of Intensive Care Medicine Annual Congress, Paris, France</td>
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<tr>
<td>2013 Aug 31</td>
<td><strong>Speaker.</strong> Understanding Discordant Results in Clinical Trials: HFO &amp; OSCILLATE. World Federation of Societies of Intensive and Critical Care Medicine, World Congress, Durban, South Africa</td>
<td></td>
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<tr>
<td>2013 Aug 31</td>
<td><strong>Speaker.</strong> Airway Pressure Release Ventilation: Friend or Foe? World Federation of Societies of Intensive and Critical Care Medicine, World Congress, Durban, South Africa</td>
<td></td>
</tr>
<tr>
<td>2013 Aug 31</td>
<td><strong>Speaker.</strong> HFOV in ARDS: Is There Still a Role? World Federation of Societies of Intensive and Critical Care Medicine, World Congress, Durban, South Africa</td>
<td></td>
</tr>
<tr>
<td>2013 Aug 29</td>
<td><strong>Speaker.</strong> How to Give an Effective Talk. World Federation of Societies of Intensive and Critical Care Medicine, World Congress, Durban, South Africa</td>
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</tr>
<tr>
<td>2013 Jul 5</td>
<td><strong>Speaker.</strong> RCTs are Absolutely Necessary, but Not Necessarily Absolute. Closing Plenary Session, UK Critical Care Research Forum, King's College London, London, UK</td>
<td></td>
</tr>
<tr>
<td>2013 Jul 4</td>
<td><strong>Speaker.</strong> Dealing with (Respiratory) Failure – Research in the Aftermath of OSCILLATE. Opening Plenary Session, UK Critical Care Research Forum, King's College London, London, UK</td>
<td></td>
</tr>
<tr>
<td>2013 Jul 3</td>
<td><strong>Speaker.</strong> Determining Prognosis and Creating Decision Rules. Postgraduate Course in Observational Research in Critical Care. UK Critical Care Research Forum, King’s College London, London, UK</td>
<td></td>
</tr>
<tr>
<td>2013 Jul 3</td>
<td><strong>Speaker.</strong> Forming a Research Question. Postgraduate Course in Observational Research in Critical Care. UK Critical Care Research Forum, King’s College London, London, UK</td>
<td></td>
</tr>
</tbody>
</table>
2013 Jun 14  **Speaker.** Ventilator-Induced Lung Injury & ARDS: New Insights from the OSCILLATE Trial. Pulmonary & Critical Care Grand Rounds, North Shore Medical Centre, New York, USA

**National**

2013 Nov 25  **Speaker.** Research Team Management and Coordination for Clinical Trials. CCCTG School, by teleconference, Toronto, Ontario


2013 Jun 6  **Speaker.** Weaning from Mechanical Ventilation. Canadian Critical Care Review – Canadian Critical Care Society RCPSC Critical Care National Exam Review Course, Mississauga, Ontario

**Local**

2013 Mar 5  High-Frequency Oscillatory Ventilation for Early Acute Respiratory Distress Syndrome. Department of Critical Care Medicine Grand Rounds, St. Joseph’s Hospital, University of Toronto, Toronto, Ontario

2013 Mar 1  High-Frequency Oscillatory Ventilation for Early Acute Respiratory Distress Syndrome. Department of Critical Care Medicine Grand Rounds, St. Michael’s Hospital, University of Toronto, Toronto, Ontario

2013 Jan 9  High-Frequency Oscillatory Ventilation for ARDS – Results of the OSCILLATE Trial. Department of Medicine Grand Rounds, University Health Network & Mount Sinai Hospital, University of Toronto, Toronto, Ontario
Dr. John Granton  (University Health Network - MSH)

Peer-Reviewed Fundings
2013 Jul - 2016 Jun  Co-Investigator. Measurement of exercise tolerance before surgery. Canadian Institutes of Health Research (CIHR). PI: Wijeysundera, Duminda. Collaborator(s): Brian Cuthbertson; C McCartney; David Mazer; H Wijeysundera; K Thorpe; Muhamad Mamdani; R Brull; Scott Beattie. $144,000 CAD. [Grant]


**Non-Peer-Reviewed Funding**

2012 Dec - 2014 Jun  **Co-Investigator.** A Phase 2, Placebo Controlled Double-Blind, Randomized, Clinical Study to Determine Safety, Tolerability and Efficacy of Pulsed, Inhaled Nitric Oxide (iNO) Verses Placebo as Add-On Therapy in Symptomatic Subjects with Pulmonary Arterial Hypertension (PAH). Protocol IK-7001-PAH-201. Ikaria. PI: Brahmi Goldstein. [Clinical Trials]

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 CAD. [Industrial Grants]

2011 Jan - 2013 Dec  **Principal Applicant.** RePo1. Randomized, controlled trial of sildenafil in patients with portal pulmonary hypertension. Pfizer Canada Inc. $400,000 CAD. [Grant]

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 CAD. [Industrial Grants]
2010 Aug - 2014 Dec **Principal Site Investigator.** GRIPHON. A multicenter, double-blind, placebo-controlled Phase 3 study to demonstrate the efficacy and safety of ACT-293987 in patients with pulmonary arterial hypertension. Actelion Pharmaceuticals Canada Inc. $150,000 CAD. [Industrial Grants]

2010 Jul - 2014 Dec **Principal Site Investigator.** EPITOME-2. Extension. A multicenter, single-arm, open-label, Phase 3b study to assess the effects of switching from Flolan® to ACT-385781A in patients with pulmonary arterial hypertension. Actelion Pharmaceuticals Canada Inc. $2,639 CAD. [Industrial Grants]

**Peer-Reviewed Publications**

**Journal Articles**


Nayyar D, Man HS, **Granton J** and Gupta S. Defining and characterizing severe hypoxemia after liver transplantation in hepatopulmonary syndrome. Liver Transpl. 2013 Oct 18. 2013 Oct 18. doi: 10.1002/lt.23776. (Trainee publication, Dr. Nayyar is a resident in internal medicine). **Coauthor or Collaborator.**


Ferguson ND, Cook DJ, Guyatt GH, Mehta S, Hand L, Austin P, Zhou Q, Matte A, Walter SD, Lamontagne F, **Granton JT**, Arroliga AC, Stewart TE, Slutsky AS, Meade MO, the


**Editorials**

**Granton JT**. The times they are a changin’. Canadian Resp J. 2013 Feb;18:127. **Principal Author.**

**Non-Peer-Reviewed Publications**

**Journal Articles**


**Book Chapters**


**Senior Responsible Author.**

Invited Lectures and Presentations

International


2013 Apr 4  **Invited Speaker.** High Frequency Oscillation in Adults HF Oh No! Results of the OSCILLATE STUDY. Intermountain Healthcare Continuing Medical Education. Salt Lake City, Utah, United States. 30th Conference on High Frequency Ventilation of Infants, Children and Adults conference.

Provincial

2013 Feb 21  **Visiting Professor.** Results of the OSCILLATE study. Why the RV matters. University of Alberta, Division of Respirology. Alberta, Canada.

National

2013 Apr  **Invited Speaker.** Medical treatment of right ventricular failure in pulmonary hypertension. international Society of Heart - Lung Transplantation (ISHLT). Montreal, Quebec, Canada. This is a plenary session at the ISHLT. It represents the first plenary session on pulmonary hypertension at the ISHLT.

2013 Nov 11  **Invited Speaker.** Salvaging the right ventricle. Canadian Critical Care Forum. Ontario, Canada. (Continuing Education).


Peer-Reviewed Fundings


2009 - present  Co-Investigator. The impact of pre-operative intubation and ventilation on post-transplant outcome in patients undergoing liver transplantation. PI: David Grant, Markus Selzner. REB number: 08-1012-AE. [Grants]


Peer-Reviewed Publications

Abstracts


Non-Peer-Reviewed Publications

Journal Articles


Abstracts

Books

Submitted Publications
Clinical Care Guidelines

Presentations and Specials Lectures
Invited Lectures and Presentations
International

2013 Nov  **Distinguished Speaker.** TRREAAT Decision-Making algorithm. Critical Care team TUTH Tribhuvan University KTM Nepal.


2013 Jan  **Distinguished Speaker.** Trauma and ICU care. TUTH Tribhuvan University KTM Nepal.

2013 Jan  **Distinguished Speaker.** Post Cardiac arrest care. TUTH Tribhuvan University KTM Nepal. Nepal.


**Media Appearances**


2013 Oct 18  **Speaker.** Rasouli: Inside a comatose mind -- background information on critical care. Interviewer: Kate Lunau. MacLean’s. Canada.

**Provincial**

**Media Appearances**

2013 Dec 16  **Speaker.** Incidental findings-- ethical implications re disclosure to patients. Interviewer: Philip Till. CKNW radio Vancouver. Canada.


**National**

Dr. Margaret Herridge (University Health Network – TGH)

Peer-Reviewed Fundings


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 CAD. [Clinical Trials]


2013 Jan - 2015 Jan  Co-Investigator. Towards RECOVER: Interdisciplinary and molecular characterization of functional disability after critical illness and development of a family-centred rehabilitation program. Alternate Funding Plan. PI: Cameron, Jill. $198,000 CAD. [Grant]

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 CAD. [Clinical Trials]

2012 Jul - 2013 Jul  **Co-Investigator.** One-Day Point Prevalence for ICU early Mobility. Academic Health Science Centre AFP Innovation Fund. AFP Innovation Fund. PI: Karen Koo. $102,103 CAD. [Grant]

2012 Jul - 2013 Jul  **Co-Investigator.** One-day point prevalence of ICU early mobility across Canada. Physician Services Incorporated Health Research Grant. $58,234 CAD. [Grant]

2011 Jul - 2013 Jun  **Co-Investigator.** Muscle Outcomes after Critical Illness. Physicians Services Incorporation Foundation (The) (PSI). PI: Batt, Jane. $80,000 CAD. [Grant]

**Non-Peer-Reviewed Funding**

2013 Dec - 2015 Nov  **Co-Principal Investigator.** RECOVER Program for Survivors of Complex Critical Illness and their Family Caregivers. PI: Herridge, Margaret. $250,000 CAD. [Donations]
Peer-Reviewed Publications

Journal Articles


Abstracts

Cameron, Jill; Chan, Linda; Czerwonka, Anna; Chu, Leslie; Matte, Andrea; Tomlinson, George; Ferguson, Niall; Mehta, Sangeeta; Friedrich, Jan; Adhikari, Neill; Fowler, Robert; Lamontagne, François; Rudkowski, Jill; Meggison, Hilary; Ayas, Najib; Skrobik, Yoanna; Batt, Jane; dos Santos, Claudia; Flannery, John; Abbey, Susan; Rubenfeld, Gordon; Scales, Damon; Sinuff, Tasnim; Cuthbertson, Brian; Fan, Eddy; Slutsky, Arthur; Leung, General; Moody, Alan; Levasseur, Melanie; Marshall, John; Cook, Deborah; Herridge, Margaret. Long-Term Outcomes after Prolonged Mechanical Ventilation: Family Caregiver Outcomes from the Towards RECOVER Study. Critical Care Canada Forum. 2013 Nov. In Press. Co-Principal Author.


**Book**

Legacy of Critical Illness: A textbook of Post ICU Medicine. In Press. **Editor.**

**Book Edited**


**Book Chapters**

**Herridge MS,** Cameron JI, Hopkins RO. Long-term Outcomes after Critical Illness. In: Principles of Critical Care. (United States); 2013. In Press. **Principal Author.**

**Herridge MS,** Cameron JI, Dos Santos C, Batt J. Physical Consequences of Critical Illness. In: Oxford Textbook of Critical Care. (United Kingdom); 2013. In Press. **Principal Author.**

Haas B and **Herridge MS.** Intensive Care Unit Acquired Weakness. Textbook of Trauma and Critical Care. In Press (Trainee publication). **Senior Responsible Author.**
**Herridge MS.** Models of Rehabilitative Care after Critical Illness. IN The Legacy of Critical Illness: A text book of Post ICU Medicine. In Press. **Co-Principal Author.**

**Editorials**


**Herridge MS** and Cameron JI. Disability after Critical Illness. New England Journal of Medicine. 2013 Oct;369:1367-1369. **Co-Principal Author.**

**Manuscripts in Preparation**

Tansey C, Cheung AM, Matte-Martyn A, Diaz-Granados N, **Herridge MS.** Five-year Respiratory Outcomes in survivors of ARDS. Planned submission to Crit Care Med. (Trainee publication, C. Tansey). **Senior Responsible Author.**

**Non-Peer-Reviewed Publications**

**Abstracts**


**Submitted Publications**

**Journal Articles**


Batt J, Dos Santos C, Cameron JI, **Herridge MS.** Intensive Care Acquired Weakness: Clinical Phenotypes, Spectrum of Disability and Pathophysiology. Am J Resp Crit Care Med. under revision. **Senior Responsible Author.**


Pearmain L, **Herridge MS.** Patient and Caregiver Outcomes after Acute Respiratory Distress Syndrome. Minerva Anesthesiologica (Trainee publication, Critical care clinical fellow). **Senior Responsible Author.**
Invited Lectures and Presentations

International


National


Provincial

Local
**Peer-Reviewed Fundings**


**Peer-Reviewed Publications**

**Journal Articles**


**Non-Peer-Reviewed Publications**

**Journal Articles**

Fan E, Golan E, **Lapinsky SE**. Recruitment maneuvers in acute lung injury and acute respiratory distress syndrome. International Respiratory Care Clinics and Technology. *In press* (Senior Responsible Author) (Trainee publication).

**Abstracts**


**Book Chapters**


**Electronic media**


**Lapinsky SE**. Principal Author. SARS for physicians. Available from [www.handango.com](http://www.handango.com).


**Thesis**


**Submitted Publications**


**Lapinsky SE**. Sepsis due to nonobstetric causes in the pregnant patient. In: Terapia Intensiva, 5th Ed, Sociedad Argentina De Terapia Intensiva, submitted


Springer, (in press)

**Lapinsky SE.** Information technology in Critical Care. In: Romano E (Ed), Il Malato Critico, UTET Scienze Mediche. (in press)

**Lapinsky SE.** Pulmonary manifestations of systemic conditions: Pregnancy, In: Albert, Silvestri and Agusti (eds), Clinical Respiratory Medicine, 4th Ed, Elsevier, (in press)

**Invited Lectures and Presentations**

**International**

**Scientific Presentation**

2013 October  Society for Maternal Fetal Medicine, Washington (Webcast presentation)

“Respiratory diseases in pregnancy”

2013 Sept  World Federation of Societies of Intensive and Critical Care Medicine, Durban, South Africa, “Liver dysfunction in the critically ill obstetric patient”, “Foetal protection in the critically ill obstetric patient”

2013 May  Postgraduate Course: Respiratory Physiology Master Class

“Respiratory Physiology In Special Patient Populations: Pregnancy” American Thoracic Society meeting 2013, Philadelphia
Peer-Reviewed Fundings

2009 - present  **Co-Investigator.** OSCILLation for ARDS Treated Early (OSCILLATE) Trial. Canadian Institutes of Health Research (CIHR). PI: Meade, M and Ferguson, N. $3,792,489.99 CAD. [Grant]

2013 - 2014  **Co-Principal Investigator.** Predictors of Restraint use in a Multicenter Randomized Trial comparing Protocolized Sedation with Daily Sedation Interruption versus Protocolized Sedation Alone. Canadian Association of Critical Care Nurses (CACCN). Collaborator(s): Rose, Louise, RN, PhD. $2,500 CAD. [Grant]

2013 - 2014  **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. $4,500 CAD.[Grant]

2013 - 2014  **Co-Investigator.** Restraint use within the SLEAP Trial. 2013 Sigma Theta Tau International Lambda Pi-At-Large Research Seed Grant. PI: Elena Luk, RN. $1,000 CAD.[Grant]


2013 - 2014  **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. Department of Medicine Clinical Research Support Program. $4,800 CAD.[Grant]
2013  **Principal Investigator.** Retrospective review of acute leukemics admitted to ICU. Mount Sinai Hospital Department of Medicine Awards Program. Mount Sinai Hospital Department of Medicine Awards Program. Collaborator(s): Alan Kraguljac MSc. $2,500 CAD. [Grant]

2013  **Principal Investigator.** Nutrition delivery in critically ill elderly patients. Technology Evaluation in the Elderly Network (TVN) Summer Student Award 2013. Collaborator(s): Samir Sinha, M.D. $6,000 CAD.[Grant]

2012 - 2013  **Principal Investigator.** Phase 1 Study: The determination the maximum tolerable dosage of nebulized Sodium Nitroprusside in adult Acute Lung Injury. Physicians’ Services Incorporated Foundation. Resident Research Grant competition. $20,000 CAD.[Grant]

2012 - 2013  **Co-Investigator.** One-day Point Prevalence of Acute Rehabilitation in Ontario Intensive Care Units: Rates of, Barriers to and Facilitating Factors for Mobilization. The Academic Medical Organization of Southwestern Ontario (AMOSO). AHSC AFP Innovation Fund. PI: Koo, Karen, M.D. $102,183 CAD.[Grant]

2012 - 2013  **Co-Investigator.** One-day Point Prevalence of Acute Rehabilitation in Ontario Intensive Care Units: Rates of, Barriers to and Facilitating Factors for Mobilization. Physicians’ Services Incorporated Foundation. PI: Koo, Karen, M.D. $58,000 CAD.[Grant]

**Peer-Reviewed Publications**

**Submitted Publications**


**Principal Author.**

Journal Articles

Burry L, Little A, Hallett D, **Mehta S**. Detection of Critical Illness-Related Corticosteroid Insufficiency Using 1 μg Adrenocorticotropic Hormone Test. Shock. 2013 Feb;39(2):144-148. **Senior Responsible Author.**


Principal Author.


Abstracts


**Letter to Editor**

Invited Lectures and Presentations
International


2013 Mar 7  Distinguished Speaker. Sedation in the Critically III. Medical Ground Rounds, Norwalk Hospital. Norwalk, Connecticut, United States.

National


2013 Nov  Invited Speaker. Recall of Intensive Care Unit stay in mechanically ventilated patients managed with a sedation protocol or a sedation protocol with daily interruption: Results of the SLEAP multicenter randomized trial. Critical Care Canada Forum. Toronto, Ontario, Canada. Presenter(s): L Burry, D Cook, M Meade, R Mallick, D Fergusson, M Steinberg, M Herridge, J Granton, N Ferguson, J Devlin, M Tanios, P Dodek, R Fowler, K Burns, M Jacka, K Olafson, S Keenan, S Reynolds, Y Skrobik, S Mehta, for the SLEAP Investigators and the Canadian Critical Care Trials Group. Session co-chair.
Abstracts and Other Papers


National


Provincial


Local

2013 Nov 18  Invited Speaker. The basics of chest X-ray interpretation. Critical Care Nurses Education Day, Mount Sinai Hospital. Toronto, Ontario

2013 Nov 5  Invited Speaker. The basics of chest X-ray interpretation. Critical Care Nurses Education Day, Mount Sinai Hospital. Toronto, Ontario

2013 Sep 6  Lecturer. Chest X-ray interpretation. Department of Medicine Subspecialty noon rounds. Mount Sinai Hospital. Toronto, Ontario


2013 Mar 1  Invited Speaker. Recall of Intensive Care Unit Patients. Province-Wide Sleep Rounds: Sleep and Medical Disorders University Health Network - Toronto Western Hospital. Toronto, Ontario
2013 Feb 7  **Invited Speaker.** Sedation Interruption vs. Sedation Algorithm: Results of the SLEAP Trial. University Health Network-Toronto Western Hospital Interdisciplinary Critical Care Rounds. Toronto, Ontario, Canada.

**Media Appearances**

2013 Jan  Featured in Sinai Scene Newsletter. Toronto, Canada. Sinai Scene, January 2013. Dr. Mehta recognized in “Best of the Best” for recent presentation at European Society of Intensive Care Medicine (ESICM) meeting in Lisbon, Portugal with concurrent JAMA publication.

**Abstracts and Other Papers**


**Honours and Awards**

2013 Nov  2014 Presidential Citation, Society of Critical Care Medicine (SCCM)

*This award honours members who have contributed to the SCCM in a meaningful way.*
Dr. Jeffery Singh (University Health Network – TWH)

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 CAD. [Clinical Trials]

Salary Support and Other Funding


Peer-Reviewed Publications

Journal Articles


Go SL, Singh JM. Pro/con debate: Should PaCO2 be tightly controlled in all patients with acute brain injuries? Crit Care (Trainee publication, Resident Publication (Internal Medicine)).


In Preparation

Invited Lectures and Presentations

International


Provincial


National


Local


Honours and Awards
2012 Jul - 2013 Jun Award for Teaching Excellence - Toronto Western Hospital, Critical Care Medicine, Faculty of Medicine, University of Toronto. (Postgraduate MD, Subspecialty)
Dr. Andrew Steel (University Health Network – TGH)

Peer-Reviewed Fundings

2013 - present  Co-Investigator. VALTS - Use of Volatile Anesthetics for Long-term Sedation in Critically Ill Patients. University of Toronto. Collaborator(s): Dr. Angela Jerath, Dr. Marcin Wasowicz, Dr. Niall Ferguson, Dr. David Mazer, Dr. Duminda Wijeysundera.


Peer-Reviewed Publications

Journal Article


Book Chapter


Invited Lectures and Presentations

International


Provincial

2013 Apr 18  Invited Lecturer. Anesthesia beyond the operating department. Michener Institute for Applied Health Sciences. Toronto, Ontario, Canada. Presenter(s): Steel AC. Ontario Anesthesia Assistant Program.
2013 Mar 27  **Invited Speaker.** Perioperative shock and resuscitation. Southlake Hospital, Department of Anesthesiology. Newmarket, Canada. Presenter(s): **Steel AC.** Departmental CPD meeting.

**Local**

**Abstract and Other Paper**

Dr. Thomas Stewart (University Health Network – MSH)

Peer-Reviewed Publications

Journal Articles

Journal Blog
Kwan JL, Bell CM, Morgan MW, **Stewart TE**. Inpatient Patient Navigator Program Reduces Length of Stay. Harvard Business Review Blog Network. **Coauthor or Collaborator**

Manuscript
Lau D, Livshits O, **Stewart T**, Shandling M, Morgan M, Snider J, Bell C. The MSH Effective and Efficient Utilization Committee: A Team Approach to Improving Care Quality, Value and Patient Experience. **Coauthor or Collaborator.**

Book Chapters
Chou Liang Mah, Niall D. Ferguson, **Thomas E. Stewart**, Sangeeta Mehta. Chapter 69 – High Frequency Ventilation. **Coauthor or Collaborator.**


Manuscripts in Press
Lau, D, Livshits O, **Stewart T**, Shandling M, Morgan M, Snider J, Bell C. The MSH Effective and Efficient Utilization Committee: A Team Approach to Improving Care Quality, Value and Patient Experience. **Coauthor or Collaborator.**

Submitted Publications

Journal Articles
Singh, JM, Ferguson, ND, MacDonald RD, **Stewart TE**, Schull MJ. Ventilation practices and critical events during transport of ventilated patients outside of hospital: a retrospective cohort study. Prehosp Emerg Care. 2009 Jul-Sep;13(3):316-23. **Coauthor or Collaborator.**

Chan K, Barrett KA, Demajo W, **Stewart TE**, Ferguson ND. Rate and Predictors of Extubation Failure In Acutely Brain-injured Patients: A Systematic Review. Critical Care Medicine.
Book Chapters
Christian, MD, Stewart TE, Lapinsky TE. Critical Care and Biological Disasters: Lessons Learned from SARS and Pandemic Influenza Planning.

Editorials
Stewart TE, MacLeod H, Bell RS. The Upside of SARS; A redesigned Critical Care System in Ontario, Canada. International Journal of Intensive Care Medicine. Coauthor or Collaborator.

Invited Lectures and Presentations

National

Local
2013 Nov Invited Speaker. Engaging the Frontlines in Utilization; Experience from Mount Sinai and UHN. Canadian Society of Clinical Chemists. Toronto, Ontario, Canada. 2013 CSCC Traveling Lectureship and Mini Symposium The Hospital for Sick Children, Peter Gilgan Centre for Research and Learning.

Honours and Awards
2013 Jun University of Toronto Critical Care Medicine - “Best Teacher Award”, Critical Care Medicine, Faculty of Medicine, Mount Sinai Hospital/University of Toronto. (Postgraduate MD)