University of Toronto
Interdepartmental Division of Critical Care

Annual Report

January 1, 2011 – December 31, 2011
Message from Arthur S. Slutsky, MD  
Director, Interdepartmental Division of Critical Care Medicine

Dear Members of the Interdepartmental Division of Critical Care Medicine,

I am very pleased to present the annual report for January 1 – December 31, 2011, showcasing the outstanding work and effort on the part of our Division’s members.

Our Residency Training Program had another great year. The 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, and our Program Director, Dr. Damon Scales. The 2011-2012 academic year marked several important successes, including an Annual Residents’ Day that featured a record 50 abstracts from our residents. I offer my congratulations to this year’s graduating class, who successfully completed their critical care training. We remain very fortunate in being able to attract some of the brightest candidates to our program and I welcome the class of 2013 as they begin their residency training.

This year’s Canadian Critical Care Forum conference was held on November 13-16th, 2011. 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. 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 ultrasound in the ICU. I would like to applaud the organizing committee (Brian P. Kavanagh (Chair, Organizing Committee); Niall D. Ferguson (Chair, Scientific Programme); Robert A. Fowler; Stephen E. Lapinsky; John C. Marshall; Damon C. Scales) for the ongoing success of this conference.

The members of our Division had another very successful year in research. This year, the total number of unique peer-reviewed publications exceeded 200. I would like to thank Drs. Andrew Baker (St. Michael’s Hospital), Niall Ferguson (Mt. Sinai and UHN) and Brian Cuthbertson (Sunnybrook) for their leadership. This past year, Dr. Desmond Bohn stepped down after two 5-year terms as Chief of the Critical Care Department at the Hospital for Sick Children. After a protracted search, Dr. Peter Laussen, currently at Boston Children’s Hospital, has been appointed as the new Chief and will take up this position in the Fall of 2012. I would like to welcome him to this new role.

This report provides a summary of the key academic and professional achievements of the Division’s members. The publication impact factor analysis outlines publication productivity, as an introduction to the individual achievements of our members. Individual achievements are organized by publications (peer reviewed and non-peer reviewed), book chapters, abstracts, presentations, funding and creative professional achievements, including program development, teaching awards, educational development opportunities, and other major accomplishments. I congratulate all of you for your tremendous individual achievements and a collective commitment to excellence in Critical Care Medicine.

As you are aware, I will be stepping down as the Director of the Interdepartmental Division in the upcoming year. A search committee has been struck and a process for identifying a new Director is well underway. I look forward to continued success under the leadership of the next Division Director.

Sincerely,

Arthur S. Slutsky, MD  
Director, Interdepartmental Division of Critical Care Medicine, University of Toronto
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. The 2011-2012 academic year marked several important successes, including an Annual Residents’ Day that featured a record 50 abstracts from our residents.

We congratulate last year’s graduating class: Dr. Mujahid Al-Busaidi, Dr. Allie Binnie, Dr. Michael Detsky, Dr. Shannon Goddard, Dr. Ewan Goligher, Dr. Laveena Munshi, and Dr. Allan Schaffer. This truly was an outstanding cohort of residents, and without exceptions each has embarked on paths for continued academic and scholarly development. We are very proud of these impressive individuals, and look forward to following their continued career growth and success.

We would also like to welcome those that joined our program in July 2012. We remain very fortunate in being able to attract some of the brightest candidates to our program, and we welcome Dr. Kali Barrett, Dr. Mohammed Bawazeer, Dr. Preeti Dhar, Dr. Brooks Fallis, Dr. Keren Mandelzweig, Dr. Elliott Owen, Dr. Ian Randall, and Dr. Shankar Sivananthan.

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. This past year we once again had a simulation series (Dr. Simon Abrahamson), National ACES course (Dr. Simon Abrahamson), leadership course (Drs. Ewan Goligher and Andrew Beckett), ethics series (Drs. Neil Lazar, Shannon Goddard, Kit Stanley), and a summer physiology series (Drs. Shannon Goddard, Mike Detsky, Laveena Munshi, Ewan Goligher, Simon Abrahamson). Drs. Simon Abrahamson and Edgar Hockmann continued to provide an ultrasound and echocardiography course, and this was enhanced by weekly case based reviews (Drs. Simon Abrahamson, Allan Schaffer, and Laveena Munshi). Dr. Natalie Wong and Shelly Dev organized the annual in-training exam to help us assess the progress of our residents. Dr. Eddy Fan organized the monthly journal club to teach critical appraisal skills, and he also organized a workshop on extracorporeal life support. Two unique aspects of our training program received media attention, as both the mass casualty simulation (Drs. Maude St. Onge and Simon Abrahamson) and the communication course (Dr. James Downar) were featured in national newspapers.

The recipients of the annual teaching awards were selected by the critical care residents to acknowledge outstanding faculty from across the 5 core academic ICUs in our system. 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. Stephen Lapinsky (Mount Sinai), Dr. Simon Abrahamson (St. Michael’s), Dr. Andre Amaral (Sunnybrook), Dr. John Granton (Toronto General), and Dr. Eyal Golan (Toronto Western).

We continue to improve the calibre of the overall training program with several exciting initiatives in preparation for the external review of our program by the Royal College in April 2013. We are implementing new evaluation tools to better track development of our residents across each of the CANMEDS domains, including 360-degree appraisals and Portfolios. The Visiting Professor series, organized by Dr. Gordon Rubenfeld, has been a tremendous success by exposing our trainees to international leaders in critical care. The Clinical Research in Progress sessions continue to be highly attended, and have been providing our residents with support and feedback for improving their scholarly projects. Over the next few years, we will continue to work with our academic hospital partners to further enhance the University of Toronto Clinical Fellowship Program. With these and other initiatives, we will build on our strong reputation for training leaders in Critical Care Medicine.
Formerly known as the Toronto Critical Care Medicine Symposium, the 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’s Critical Care Canada Forum (CCCF) was held November 13-16 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 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. One of the main highlights of the scientific programme this year included a whole day dedicated to Safety in the ICU – Settling Only for Best, which was opened by an address from the Ontario Minister for Health and Long-Term Care. As usual we had presentations of a number of important randomized trials – including studies on sedation strategies and new treatments for septic shock.

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. Indeed, the new venue continues to be very well received by attendees, speakers, and sponsors alike. 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 P. Kavanagh (Chair, Organizing Committee); Niall D. Ferguson (Chair, Scientific Programme); Robert A. Fowler; Stephen E. Lapinsky; John C. Marshall; Damon C. Scales; and Arthur S. Slutsky

The conference in 2011 was a huge success, and planning is already underway for the upcoming year – October 28-30, 2012. More details are available at www.criticalcarecanada.com.

The Critical Care Canada Forum is where Canada’s intensivists put the latest science into practice.
An Update from the Department of Critical Care, St. Michael’s Hospital  
(Andrew J. Baker, MD)

The Department of Critical Care at St. Michael’s Hospital has continued to strive for excellence in the realms of education, research, and clinical activities in the past year. The department’s hard work has been recognized through the numerous accolades received by its physicians.

We welcome Dr. Mark Kataoka as the Medical Director for CVICU and we would also thank Dr. David Mazer for his strong leadership for more than 20 years in the CVICU.

In education, Dr. Simon Abrahamson continues to lead the Fellowship Program, and Dr. Natalie Wong the residency program, for the Department of Critical Care at St. Michael’s Hospital. Dr. Simon Abrahamson received the Frank Rutledge Award of Excellence for Critical Care Teaching in Canada. Dr. Natalie Wong received the SMH DOM Postgraduate Teaching Award from the Department of Medicine at St. Michael’s Hospital. Furthermore, Dr. David Hall was awarded the Sheldon Mintz Undergraduate Teaching award from the Faculty of Medicine at the University of Toronto for his excellence in teaching and educational leadership.

Other major honours received by Critical Care physicians include:

The National 3M Healthcare Quality Team Award was presented to Dr. Richard Bowry. Dr. Claudia dos Santos received the Gairdner King Research Award for the best student research project in Critical Care Medicine, as well as a Masters Research Training Award from the School of Graduate Studies at the University of Toronto. Dr. Sarah Gray was awarded the Research Engagement Award from the St. Michael’s Hospital MSICU. Dr. David Klein received the Specialized Complex Care Award from St. Michael’s Hospital. Dr. Warren Lee was recognized with the Breathe New Life Award from the Ontario Thoracic Society. Dr. Avery Nathens received the Arthur Award for media recognition for his studies on trauma centre performance. Dr. Andrea Rigamonti received the Department of Anesthesia Merit Award from the University of Toronto. Dr. Arthur Slutsky was awarded the 2011 Anne & Neil McArthur Research Award from St. Joseph’s Healthcare.

The Department of Critical Care has maintained its strong interest in research, as evidenced by the 103 refereed publications put forth by its staff in the past year. The ability to participate in this amount of research has been greatly aided by the grants and research awards presented to members of the Department of Critical Care. A total of 23 research grants were awarded to physicians in the Department of Critical Care to aid them in their research endeavours. Peer-reviewed grants were received by – Drs. Andrew Baker, Karen Burns, Claudia dos Santos, David Klein, Warren Lee, John Marshall, David Mazer, Avery Nathens, Natalie Wong, and Haibo Zhang. Non-peer-reviewed grants were received by – Drs. Karen Burns, David Hall, David Klein, David Mazer, and Natalie Wong.

The Department of Critical Care’s staff also aims to expand the outreach of the department through participation in international, national, and regional scientific presentations. The Department’s physicians attended a total of 108 of such presentations in the past year.
2011 was a year of change for Critical Care at the Hospital for Sick Children. Dr Desmond Bohn stepped down as Chief and has subsequently retired after more than 30 years on staff. As many would know, the focus and passion of Des’ career was Congenital Diaphragmatic Hernia (CDH). So, in his honour, a very successful gathering of international CDH experts met for an excellent academic day which culminated in a gala send off for Dr Bohn.

After a protracted search, a new Chief has been appointed. Dr Peter Laussen, currently at Boston Children’s Hospital, will take up this position in the fall of 2012.

The Department’s educational and academic mission continues to flourish. Trainees are attracted from all corners of the globe, with the most recent year having 18 fellows from 13 different countries. Afrothite Kotsakis, with help from Briseida Mema and Hadi Mohseni-Bod, has developed an extended and advanced curriculum, including simulation to enhance an already excellent training program.

Permanent funding of the Critical Care Response Team has allowed us to support more individuals and, with the expansion of the extramural arm of CCRT, and under the guidance of the Paediatric Critical Care Network, we now provide a Provincial, ‘one number to call’ access to Critical Care services for Children. This is largely driven by SickKids!

Both clinical and basic science research continue to be departmental strengths. We remain very productive with details of the many research accomplishments found throughout this report.

We look forward to ongoing success under the leadership of Dr Laussen.
Personnel:
The leadership team for Critical Care at UHN/MSH remained unchanged in 2011. Dr. Niall Ferguson is Director of Critical Care for UHN/MSH, with Drs. Neil Lazar, Jeff Singh, and Stephen Lapinsky 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). Drs. Lisa Kenny and Andrew Steel lead the education programme, with Andrew also serving as the Director of our International Fellowship Programme. We welcome Eddy Fan who joined us as faculty in July 2011.

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 OSCILLATE; Towards RECOVER, SLEAP), some investigator-initiated from other CCCTG collaborators (ABLE), and others industry trials (PROWESS-Shock; CONSCIOUS II).

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. Under the leadership of Drs. Lisa Kenny and Andrew Steel we continued our revamped resident education programme at UHN/MSH in 2011. The addition of Intensive Care University continues to flourish – a whole day primer on essentials of critical care for new residents beginning their rotation. We also updated and revised the noon seminar series for ICU residents across sites, and added twice-monthly Meet the Professor rounds, broadcast by video-conference among all 3 sites. Other areas of quality improvement include a focus on reducing CLI and VAP, led by the Site Directors. The Antibiotic Stewardship Programme, has been successfully implemented in all 3 sites, with impressive results to date.
An Update from the Department of Critical Care Medicine, Sunnybrook Health Sciences Centre  
(Dr. Brian Cuthbertson MB ChB, MD, FRCA)

The leadership team for Critical Care Medicine at Sunnybrook Health Sciences Centre remained unchanged in 2011. 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. Shelly Dev is the lead of the education programme, with Dr. Damon Scales serving as the Program Director of the University of Toronto Adult Critical Medicine Training Program and Dr. Cameron Guest as our International Fellowship Director.

Since May 2011, an exciting change has occurred at Sunnybrook: patients with neurological critical illness have been managed with a different model of care. After extensive assessment with the ICU team and our collaborators, we created a Neurocritical Care (NCC) Service with the purpose of providing more consistent quality care and facilitating a more collaborative approach with our clinical partners. Firstly, modelling suggested that just under half of our admissions into the Level III ICU could be classified with a neurocritical illness. Consequently, one of the two existing clinical ICU teams was rebranded as the NCC Team and all such patients were admitted to this team. We also reviewed our protocol for traumatic brain injury, formed a consensus between ICU and Neurosurgery for a common management plan and implemented this with regular review of our performance. Our goal is to extend this process to other common neurological critical illnesses, such as intracerebral hemorrhage and ischemic stroke.

In Quality Improvement, the Department began collecting 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 based these select quality indicators. The results are published internally on-line on a quarterly basis. There are ongoing efforts to solicit and identify additional indicators through surveys of interdisciplinary teams, which will be added as new initiatives to sustain a path of continuous improvement in the ICU.

In Research, Rob Fowler received a CIHR grant as Principal Investigator with Gordon Rubenfeld and Damon Scales to study: A National Comparison of Intensity of End-of-Life Care in Canada: Defining Changing Patterns, Risk Factors and Targets for Intervention. Dominique Piquette was the recipient of a CIHR Fellowship, as well as a Royal College of Physicians and Surgeons CanMEDS research and development grant: Problem-Based Learning for Postgraduate Critical Care Training: Implementation and Dissemination of a New Curriculum to Promote CanMEDS Roles. Damon Scales received a substantial CIHR grant for a randomized controlled trial – Initiation of Cooling by Emergency medical services to Promote the Adoption of in-hospital therapeutic hypothermia in Cardiac arrest Survivors: the ICE-PACS study. Brian Cuthbertson received CIHR funding as co-Principal Investigator for the METS study (Measurement of Exercise Tolerance before Surgery).

In Education, the Visiting Professorship Program continues to be tremendously successful in bringing ten international experts in Critical Care to Sunnybrook and the city-wide Interdepartmental Division of Critical Care. Since these visiting professors are undertaking educational sessions whilst visiting, this also enhances the teaching and training opportunities for our trainees and staff. 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 eighteen presenters which included an assortment of both city-wide staff and fellows.

We have worked hard to evolve the postgraduate education program; we have implemented educational activities specifically designed for our fellows such as renewed weekly Journal Clubs, new weekly problem-based learning sessions and bimonthly simulation sessions.

Various other rounds that are held on a regular basis include:
• Quality of Life Rounds (for long-term ventilated patients) – lead by nursing staff; more patient-centered approach for patients who have been vented in the ICU for 21 days or more, they are asked: "What is important to them? What are their goals?"

• Last Rights Rounds – multi-disciplinary rounds to debrief on all deaths from the previous month to review improvements in end-of-life communication, palliative care, and moral distress.

• Quality Improvement Walkabout Rounds – help initiate conversations regarding quality improvement with staff

• Ask the Ethicist – a monthly newsletter where staff questions are answered.

Critical Challenge Conference is an annual 1-day workshop hosted by Sunnybrook that is led by Critical Care Educators. It is open to staff at the other Toronto area hospitals. It provides a forum to discuss and share ideas surrounding current “challenges” facing Critical Care departments across the city.
Publication Analysis for the Year 2011

Number of unique publications: 204
Number of unique publications with impact factor greater than zero: 190
Mean impact factor (of those with an impact factor greater than zero): 6.65
Median impact factor (of those with an impact factor greater than zero): 4.53
Percentage of publications with impact factor greater than 7.00: 19.6%.
Neill KJ. Adhikari (Sunnybrook Health Sciences Centre)

Peer Reviewed Publications:


7. Friedrich JO, Adhikari NKJ, Beyene J. Ratio of means for analyzing continuous outcomes in meta-analysis performed as well as mean difference methods. J Clin Epidemiol 2011 May;64(5):556-64. **Coauthor or Collaborator.**


**Non Peer Reviewed Publications:**


**In Press:**


**Review Articles, Letters, and Editorials:**

1. Scales DC, Dainty K, Adhikari NKJ. Quality Improvement Interventions in Intensive Care Units--Reply. JAMA 2011; 305: 1764-1765. **Senior Responsible Author.**

**Abstracts:**


Presentations/Lectures:


Research Funding:


2. 2010 Jul - 2011 Jun  **Principal Investigator.** Expanding the scope of Critical Care Rapid Response Teams: a cost-effective approach to identify preventable adverse events that cause harm. Sunnybrook and Women’s College Health Sciences Centre. AFP Innovation Fund. 63,800 CAD. [Grants].


Najma Ahmed (St. Michael’s Hospital)

**Peer Reviewed Publications:**


**In Press:**


**Presentations/Lectures:**


   Doumouras AG, Keshet I, Nathens AB, Ahmed N, Hicks CM. Accepted for presentation at the Trauma Association of Canada Annual Scientific Meeting, Banff AB, April 7-9, 2011.


**Research Funding:**

1. Team in Training for Trauma: Developing an interdisciplinary, simulation-based human factors training curriculum for general surgery residents. N. Ahmed, Hicks M: Education Development Fund, University of Toronto. ($6,825 2010 - 2011.)
**Andre Amaral** (Sunnybrook)

**Presentations/Lectures:**


**Research Funding:**

Andrew Baker (St. Michael’s Hospital)

Peer Reviewed Publications:


Presentations/Lectures:


Research Funding:

1. 2010-2016 Heart and Stroke Foundation of Canada  
   From bench to bedside to curbside  
   Baker AJ: Co-investigator  
   $1,500,000

2. 2010-2016 National Institutes of Health  
   From bench to bedside to curbside  
   Baker AJ: Co-investigator  
   $USD 648,000

3. 2009-2016 Canadian Institutes of Health Research  
   From bench to bedside to curbside
Baker AJ: Co-investigator
$1,057,000

4. 2011-2016 National Institutes of Health
   Resuscitation Outcomes Consortium- Core Training Grant
   Baker AJ: Co-investigator
   $335,000

5. 2009-2011 Merit Award
   Modeling neurological blast injury
   Department of Anesthesia,
   University of Toronto
   $40,000/yr for 2 years
Richard Bowry (St. Michael’s Hospital)

Abstracts:


2. Lewis E, Meleca N, Bowry R, Mustard M. Go with the flow, *Canadian Cardiovascular Congress, 2011*

Presentations/Lectures:

1. 2011 Nov  “The Role of QIP’s to support Physician QI” – *Presentation*  
HealthAchieve – Quality Improvement Plans – Toronto

2. 2011 Sep  “Improving Flow: From a Project to Transformation” – *Presentation*  
Emergency Department Quality Collaborative, Central LHIN

3. 2011 Jun  “Use of Echocardiography for Aortic Surgery” – *Presentation*  
CAS Annual Meeting - Toronto
**Peer Reviewed Publications:**


**In Press:**


Abstracts:


Non-Peer Reviewed Abstracts:


Presentations/Lectures:


7. 2011 Jun 14 Results of the WEAN Study. Canadian Critical Care Trials Group Meeting. St Alexis des Monts, Quebec, Canada.


**Research Funding:**

1. **2011 Sep - 2013 Aug**  

2. **2011 Aug - 2013 Jul**  

3. **2011 Jul - 2014 Jul**  
   **Principal Applicant.** Practice Pattern Variation in Liberating Critically Ill Adults from Invasive Mechanical Ventilation: An International Study. CIHR. Industry Partnered Operating Grant. PI: **Burns, Karen**. 90,000 CAD. [Grants].

4. **2011 Jul - 2014 Jul**  
   **Principal Applicant.** Practice Pattern Variation in Liberating Critically Ill Adults from Invasive Mechanical Ventilation: An International Study. GE Healthcare. Industry Partnered Operating Grant. PI: **Burns, Karen**. 15,000 CAD. [Grants].

5. **2011 Jul - 2014 Jul**  
   **Principal Applicant.** Practice Pattern Variation in Liberating Critically Ill Adults from Invasive Mechanical Ventilation: An International Study. Covidien Inc. Industry Partnered Operating Grant. PI: **Burns, Karen**. 50,000 CAD. [Grants].

6. **2011 Jul - 2014 Jul**  
   **Principal Applicant.** Practice Pattern Variation in Liberating Critically Ill Adults from Invasive Mechanical Ventilation: An International Study. Fisher & Paykel Inc. Industry Partnered Operating Grant. PI: **Burns, Karen**. 25,000 CAD. [Grants].

7. **2011 Jan - 2013 Jun**  
   A Multicentre Randomized Trial of Early vs Late Renal Replacement Therapy Initiation. A Timing Trial.

8. **2010 Jul - 2011 Jun**  
   **Co-Investigator.** The Efficacy, Cost Effectiveness and Ecological impact of Selective Decontamination of the Digestive Tract in Critically Ill Patients Treated in the Intensive Care Unit (the SuDDICU Study). CIHR. Operating Grant. PI: Cuthbertson, Brian. 198,322.5 CAD. [Grants].
Peer Reviewed Publications:


Presentations/Lectures:


3. June 27, 2011, Canadian Anesthesiologists’ Annual Meeting. Toronto ON. Chair: Interesting TEE cases


6. May 7, 2011, Hemodynamics Symposium 2011, Scarborough General Hospital, Scarborough ON. (CME accreditation through McGill University, Montreal QC) Lecture: Diastology and Obesity Demonstrator: Hands-on bedside echo
Michael Christian (Mount Sinai Hospital)

Peer Reviewed Publications:


In Press:


Abstracts:

1. Michael Christian. Analysis of policy options for the implementation of ICU triage in a public health care system during a mass casualty event. ESICM 2011. Principal Author.


6. 2011 Oct Presenter. Critical Care Provider’s Perceptions of Pandemic Preparedness Following the H1N1 Pandemic. CHEST. Honolulu, Hawaii, United States. Presenter(s): Christian MD.

7. 2011 Oct Presenter. An Audit of AED Use in a Tertiary Care Teaching Hospital. CHEST. Honolulu, Hawaii, United States. Presenter(s): Christian MD.


Presentations/Lectures:


4. 2011 Jan 14 Invited Speaker. Disaster Triage and Allocation of Scarce Critical Care Resources. Society of Critical Care Medicine 40th Critical Care Congress. San Diego, California, United States. Presenter(s): Christian MD.
5. 2011 Jan 14 Invited Speaker. Critical Care During Epidemics. Society of Critical Care Medicine 40th Critical Care Congress. San Diego, California, United States. Presenter(s): Christian MD.


Research Funding:


Peter Cox (Hospital for Sick Children)

Submitted:


Presentations/Lectures:

1. Name: IX Panamerican & Iberic Congress
City: Colombia
Date: November 2011
Topics: Quality of Care in a PICU, Communication at the interface

2. Name: 13th National Conference of Pediatric Critical Care
City: India
Date: November 2011
Topics: Hypoxia, Communication barriers & Ventilation

3. Name: PICU Conference
City: VIII National Congress of Paediatric Intensive Care, Puerto Varas, Chile
Date: October 2011
Topics: Disasters, are we prepared?
Breaking barriers to communication
Training and Education of Intensivists of the future

4. Name: Biannual Controversies in Perioperative Medicine (Sponsored by North York General Hospital)
(Invited Speaker)
City: Alsace, France
Date: May 2011
Topics: Adaptation to abnormal environments
Evolution and oxygen
Silence kills
Communication at Interfaces
Protocols, the good the bad and the ugly

5. Name: Annual Canadian Critical Care Conference (Organizing Committee // Invited Speaker)
City: Whistler, BC
Date: February 23-25, 2011
Topics: Leadership strategies
Peer Reviewed Publications:


10. Robotham J, **Cuthbertson BH**. Screening, isolation, and decolonisation strategies in the control of methicillin resistant Staphylococcus aureus in intensive care units: cost effectiveness evaluation. 2011;343:d5694.


In Press:

1. Reader TW, Cuthbertson BH. Teamwork in the ICU: Comparisons with the aviation industry. Accepted for publication Critical Care, June 2011.


Submitted:


Presentations/Lectures:


Research Funding:

1. 2007 Jun - 2011 Jun Co-Investigator. OSCAR study- A multicentre trial of high frequency oscillation ventilation in ARDS. Scottish Funding Councils for Further and Higher Education. $2,800,000


In Press:


Multimedia:


Research Funding:

   - *My role:* Production of 6 videos focusing on ventilation strategies for patients with ARDS, including scripting, storyboarding, filming, editing, voice and sound recording and editing, video design template.

2. **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. Collaborators: Chow, Chi-Ming and Bandiera, Glenn. 4,993 CAD. [Grants]
   - *My role:* Conceived study idea, developed study methods, developed analytical approach, wrote grant manuscript.

3. **Co-Investigator.** Multimedia Teaching Tools: A Video Series on Splinting Techniques. Sunnybrook Health Sciences Centre. ACMS Fund. 10,000 CAD. [Grants]
   - *My role:* Co-conceived study idea and co-wrote grant manuscript. Future role in project will include video production, scripting, storyboarding, filming, editing and sound recording.
**Peer Reviewed Publications:**


**In Press:**

1. Claudia C. dos Santos, The role of the Inflammasome in VILI. Invited Editorial for The American Journal of respiratory and Critical Care Medicine *(in press).* **Senior Responsible Author**


**Abstracts:**


**Presentations/Lectures:**

1. 2011 May **Invited Speaker:** “ARDS vs. TRALI: Pathogenesis” The Canadian Society For Transfusion Medicine Annual Conference 2011. Toronto, ON. Presenter(s): Claudia C dos Santos


**Research Funding:**

1. 2011 Jul - 2016 Jun **Principal Applicant.** Informed Discovery of Novel Molecular Targets for Therapy in Acute Lung Injury. Canadian Institutes of Health Research (CIHR). 300,000 CAD.

3. 2010 Oct - 2013 Apr  **Principal Investigator.** Molecular Mechanisms of Lung Protection from Ventilator Induced Lung Injury (VILI). Canadian Institute of Health Sciences (CIHR). Grant in Aid. 384,897 CAD. [Grants].


6. 2009 Sep - 2011 Aug  **Principal Investigator.** Identification of cyclic-stretch sensitive transcription factors in pulmonary epithelial cells that play a role in ventilator induced lung injury (VILI). Physician Services Incorporate (PSI). Grant in Aid. 158,000 CAD. [Grants].

7. 2009 Jul - 2013 Jun  **Co-Applicant.** The RECOVER Program: Phase I - Towards RECOVER - Long Term Outcomes and Needs Assessment in Survivors of Prolonged Mechanical Ventilation and their Caregivers. Canadian Institute of Health Research (CIHR). Operating Grant. PI: Margaret Herridge and Jill Cameron. 704,000 CAD. [Clinical Trials].


9. 2009 Jul - 2012 Jun  **Principal Applicant.** Phase 1 Clinician Scientist Award -The role of PGC1a in Sepsis-Induced Myocardial Depression. Heart and Stroke Foundation. Phase I Clinician Scientist. 180,000 CAD. [Salary Support].


Peer Reviewed Publications:


In Press:

1. Knickle K., McNaughton N., **Downar J**. Beyond Winning: Mediation, Conflict Resolution and Non-Rational Sources of Conflict in the ICU. Critical Care. In Press. **Senior Responsible Author**.

2. **Downar J**, Chou Y., Ouellet D., La Delfa I., Blacker S., Bennett M., Petch C., Cheng SM. Survival Duration among Patients with a Non-Cancer Diagnosis admitted to a Palliative Care Unit: A Retrospective Study. Journal of Palliative Medicine. In Press. **Principal Author**.


Review Articles, Letters, and Editorials:


Presentations/Lectures:


4. 2011 Sep **Presenter**. Multi-site Examination of Patient Flow Within PCUs & Hospices for Cancer and Non-Malignant Patient Groups. Canadian Hospice and Palliative Care Association Annual Meeting. St. John’s, Newfoundland and Labrador, Canada. Presenter(s): **James Downar**.


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<tr>
<th>Date</th>
<th>Role</th>
<th>Event Title</th>
<th>Location</th>
<th>Details</th>
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<tr>
<td>8. 2011 May 17</td>
<td>Invited Lecturer</td>
<td>Critical Care Outreach Teams.</td>
<td>Kuwait Cancer Control Centre. Kuwait City, Kuwait.</td>
<td>(Continuing Education).</td>
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<tr>
<td>9. 2011 Dec 3</td>
<td>Speaker</td>
<td>Medical, Legal and Ethical Considerations in Physician-Assisted Suicide.</td>
<td>CTV News Channel. Toronto, Ontario, Canada.</td>
<td>I gave an interview to answer questions about a legal case in British Columbia.</td>
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<td>13. 2011 Jan 21</td>
<td>Invited Lecturer</td>
<td>Why is DNR a four-letter word? Oncology Continuing Education Rounds.</td>
<td>University of Toronto. Toronto, Ontario, Canada. Teleconferenced to all Cancer Care Ontario Sites.</td>
<td>(Continuing Education).</td>
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<td>14. 2011 Jun 15</td>
<td>Presenter</td>
<td>Design and implementation of a Palliative Care Ethics Curriculum.</td>
<td>University of Toronto, Division of Palliative Care Annual Congress. Toronto, Ontario, Canada.</td>
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<tr>
<td>15. 2011 May 30</td>
<td>Presenter</td>
<td>Using standardized family members to teach communication skills and ethical principles to critical care trainees.</td>
<td>University of Toronto, Department of Medicine, 3rd Annual Education Scholarship Event. Toronto, Ontario, Canada.</td>
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<tr>
<td>18. 2011 Sep 27</td>
<td>Visiting Professor</td>
<td>The ethics of euthanasia and assisted suicide.</td>
<td>McGill University, Otorhinolaryngology Residency Training Program, Ethics Educational Half-Day. Montreal, Quebec, Canada.</td>
<td></td>
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</tbody>
</table>
22. 2011 Jul 8  Lecturer. Why is DNR a four-letter word? Meet the Professor Rounds, Division of Critical Care, University Health Network/Mount Sinai Hospital. Toronto, Ontario, Canada.


25. 2011 Jun 3  Presenter. What can the Hospice and Palliative Care Community do to improve care in the inpatient setting? Toronto Central Palliative Care Network, State of the Union. Toronto, Ontario, Canada. (Continuing Education).


Eddy Fan (Mount Sinai Hospital)

**Peer Reviewed Publications:**


2. Chen K, Colantuoni E, Siddigi F, Dinglas VD, Sepulveda KA, Fan E, Pronovost P, Needham DM. Repeated attempts using different strategies are important for timely contact with study participants. Journal of Clinical Epidemiology. 2011;64:1144-1151.


**Non Peer Reviewed Publications:**


**Review Articles, Letters, and Editorials:**


**Presentations/Lectures:**


**Research Funding:**

1. 2011 Sep - 2012 Aug  **Co-Investigator.** A Prospective Evaluation of the Association Between Psychoactive Medications and Delirium In Critically Ill Adults. University of Toronto. Leslie Dan Faculty of Pharmacy. PI: Burry, Lisa. 25,000 CAD. [Grants].


4. 2007 Jul - 2012 Jun  **Principal Investigator.** Corticosteroids and Long-Term Weakness After Acute Lung Injury. Canadian Institutes of Health Research (CIHR). Fellowship Award #MFE-81972. 300,000 CAD. [Grants]  
**Supervisor:** Pronovost PJ, Johns Hopkins University.
Niall Ferguson (Mount Sinai Hospital)

Peer Reviewed Publications:


3. Adhikari NK, Bashir A, Lamontagne F, Mehta S, Ferguson ND, Zhou Q, Hand L, Czarnecka K, Cook DJ, Granton JT, Friedrich JO, Freitag A, Watpool I, Meade MO. High frequency oscillation in adults: A utilization review. Critical Care Medicine 2011, 39:2631-2644. Role: Co-principal author (acquisition of the data; data analysis and interpretation; drafting the manuscript; critical revisions to the manuscript for important intellectual content)


Role: Co-author (data analysis and interpretation; critical revisions to the manuscript for important intellectual content)

**Review Articles, Letters, and Editorials:**

   
   Narrative Review; Role: Senior responsible author

**Book Chapters:**

   
   Role: Senior responsible author; supervised I Galvin, postgraduate trainee

   
   Role: Co-Principal author; supervised CL Mah, postgraduate trainee

   
   Role: Senior responsible author; supervised O Soliman, postgraduate trainee

**Non-Peer Reviewed Abstracts:**


Presentations/Lectures:

1. 1. Tracheostomy: When and In Whom? IX Panamerican and Iberic Congress of Intensive and Critical Care Societies, Cartagena, Colombia, December 2, 2011.


6. PEEP Levels in ARDS. Asian Intensive Care: Collaboration, The Chinese University of Hong Kong, Hong Kong, November 4, 2011.


11. Role of Tracheostomy in Mechanical Ventilation. 2nd International Congress on Cardiorespiratory Critical Care, Universidad Manuela Beltrán, Bogotá, Colombia, October 19, 2011.

12. Quality Adjusted Life Years as an ICU Outcome. 2nd International Congress on Cardiorespiratory Critical Care, Universidad Manuela Beltrán, Bogotá, Colombia, October 19, 2011.


15. **Why Do We Need a New Definition for ARDS?** ESICM Task Force on The ARDS Definition, European Society of Intensive Care Medicine Annual Congress, Berlin, Germany, September 30, 2011.


21. **Weaning from Mechanical Ventilation.** Canadian Critical Care Review – Canadian Critical Care Society RCPSC Critical Care National Exam Review Course, Mississauga, ON, June 3, 2011


26. **The Epidemiology of Mechanical Ventilation – How is Practice Changing Over Time?** The Royal Oldham Hospital 8th Annual Critical Care Symposium, Manchester, UK, April 29, 2011.

27. **The Right PEEP (Small Group Tutorial).** The Royal Oldham Hospital 8th Annual Critical Care Symposium, Manchester, UK, April 28, 2011.


29. **Updated HFO Practice for 2011.** The Royal Oldham Hospital 8th Annual Critical Care Symposium, Manchester, UK, April 28, 2011.


44. High-Frequency Oscillation in the Adult World. Critical Care Resident Research Day, Interdepartmental Division of Critical Care Medicine, University of Toronto, Toronto, ON, June 21, 2011.

Research Funding:

1. **Weaning and Variability Evaluation (WAVE) - a multicenter evaluation of altered heart rate and respiratory rate variability to predict extubation failure**
   - **Principal Investigator:** A Seely
   - **Co-investigators:** ND Ferguson, D Fergusson, J Hooper, F Lellouche, JC Marshall, D Maziak, L MacIntyre, T Ramsay, GD Rubenfeld, P Wilkes, DC Scales, R Zarychanski
   - **Granting Agency:** Canadian Institutes of Health Research
   - **Funds Granted:** $650,000

2. **The efficacy, cost-effectiveness and ecological impact of Selective Decontamination of the Digestive tract in critically ill patients treated in the Intensive Care Unit (The SuDDICU Study)**
   - **Principal Investigator:** BH Cuthbertson
   - **Co-investigators:** KE Burns, DJ Cook, P Dodek, ND Ferguson, J Francis, J Grimshaw, R Hall, B Johnson, S Kanji, JC Marshall, L MacIntyre, J Muscedere, G Pagliarello, L Rose, F Webster, C Weijer
   - **Granting Agency:** Canadian Institutes of Health Research
   - **Funds Granted:** $240,390

3. **SLEAP-Sleep, Cognition and Psychology (SLEAP-SCP): Psychological, cognitive, and sleep morbidity following the use of a sedation protocol vs. a sedation protocol and daily sedative interruption in critically ill, mechanically ventilated adults**
   - **Principal Investigator:** S Mehta
   - **Co-investigators:** J Hunter, L Burry, C Ethier, ND Ferguson, R Mauder, L Rose, M Steinberg
   - **Granting Agency:** Canadian Institutes of Health Research
   - **Funds Granted:** $35,000

4. **SLEAP-PS: Psychological morbidity associated with two sedation strategies in the critically-ill**
   - **Principal Investigator:** S Mehta
   - **Co-Investigators:** J Hunter, L Rose, R Mauder, ND Ferguson, C Ethier, M Steinberg, L Burry
   - **Granting Agency:** Canadian Intensive Care Foundation
   - **Funds Granted:** $25,000

5. **The OSCILLation for ARDS Treated Early (OSCILLATE) Trial**
   - **Principal Investigators:** ND Ferguson, MO Meade
   - **Co-investigators:** DJ Cook, S Mehta, TE Stewart, GH Guyatt, AS Slutsky, NK Adhikari, JO Friedrich, SP Keenan, M Jacka, O Lesur
In Survivors of Prolonged Mechanical Ventilation and their Caregivers
Principal Investigators: MS Herridge, J Cameron
Co-investigators: S Abbey, NK Adhikari, J Batt, DJ Cook, D Dos Santos,
ND Ferguson, J Flannery, RA Fowler, J Friedrich, G Leung,
JC Marshall, A Matte, H Meggison, A Moody, S Mehta, J Rudkowski,
GR Rubenfeld, DC Scales, T Sinuff, AS Slutsky, C Tansey, T Tomlinson
Granting Agency: Canadian Institutes of Health Research
Funds Granted: $754,357

Principal Investigator: LJ Morrison
Co-investigators: P Dorian, Slutsky AS, R Wax, ND Ferguson, DC Scales
A Laupacis, GD Rubenfeld, D Needham, M Zwarenstein, K Dainty
Granting Agency: Laerdal Foundation
Funds Granted: $450,000
Rob Fowler  
(Sunnybrook Health Sciences Centre)

**Peer Reviewed Publications:**


Collaborative H1N1 Adjuvant Treatment pilot trial (CHAT): study protocol and design of a randomized controlled trial. *Trials* 2011;12:70.


**Non Peer Reviewed Publications:**


**Review Articles, Letters, and Editorials:**


**Abstracts:**


5. Cameron, Jill I.; Chan, Linda; Czerwonka, Anna I.; Chu, Leslie M.; Matte, Andrea; Ferguson, Niall D.; Mehta, Sanjeeta; Friedrich, Jan; Adhikari, Neill; Fowler, Robert; Cook, Deborah; Rudkowski, Jill; Meggison, Hilary; Abbey, Susan; Batt. LONG-TERM OUTCOMES AFTER PROLONGED MECHANICAL VENTILATION: FAMILY CAREGIVER OUTCOMES FROM THE TOWARDS RECOVER STUDY. Critical Care Canada Forum. November 11-14 2011. Toronto, Ontario Canada.

6. Herridge, Margaret S.; Chu, Leslie M.; Matte, Andrea; Chan, Linda; Tomlinson, George; Ferguson, Niall D.; Mehta, Sanjeeta; Friedrich, Jan; Adhikari, Neill; Fowler, Robert; Cook, Deborah; Rudkowski, Jill; Meggison, Hilary; Abbey, Susan; Batt. LONG-TERM PATIENT OUTCOMES AFTER PROLONGED MECHANICAL VENTILATION: THE TOWARDS RECOVER STUDY. Critical Care Canada Forum. November 11-14 2011. Toronto, Ontario Canada.


2011;16731:B49.


Presentations/Lectures:


15. Fowler RA. Association between health insurance status and access, care delivery and outcomes


Research Funding:


5. $63,899 (2010-2011) Canadian Institutes of Health Research (CIHR). EPITEC - Epidemiology of ThromboEmbolism in Critical care; PI Cook DJ. I am a co-investigator with: Dr. M. CROWTHER Dr. P. DEVEREAUX Dr. P. DODEK Dr. R. FOWLER Dr. R. HALL Dr. M. HERRIDGE Dr. M. JACKA Docteur F. LAUZIER Dr. J. MARSHALL Dr. M. MEADE Dr. S. MEHTA Dr. J. MUSCEDERE Dr. A. TURGEON


7. $200,000 Collaborative H1N1 Adjuvant Treatment (CHAT) Pilot Trial (2010-02-01 to: 2011-01-31) PI: BURNS, Karen Elizabeth Ann; I am a co-investigator with: MARSHALL, John Christopher, ADHIKARI, Neill Kumar John; CHANT, Clarence; CUTHBERTSON, Brian H ; FOWLER, Robert Allston ; RUBENFELD, Gordon ; SMITH, Orla Marie

8. $400,000 (2009-2011). Public Health Agency of Canada. Influenza-and H1N1-Related Critical Illness - Demand and Capacity in the Health Care System: the Canadian ICU-Flu Study. I am the primary investigator with Dr. Philippe Jouvet Co-investigators: Dr. Anand Kumar, Dr. Allison McGeer, Dr. Jamie Hutchison, Dr. Kusum Menon, Dr. Deborah Cook, Dr. John Marshall.

9. $599,673 (2009-2011). Canadian Institutes of Health Research (CIHR). Influenza-and H1N1-Related Critical Illness - Demand and Capacity in the Health Care System: the Canadian ICU-Flu Study. I am the primary investigator with Dr. Philippe Jouvet Co-investigators: Dr. Anand Kumar, Dr. Allison McGeer, Dr. Jamie Hutchison, Dr. Kusum Menon, Dr. Deborah Cook, Dr. John Marshall.
10. **$385,628** (2009-2011). Pregnant women: who is at risk and is the H1N1 flu vaccine safe for the baby? Canadian Institutes of Health Research (CIHR). I am a Co-investigator with: Dr. Victoria Allen, Dr. Sarah Manos, Dr. Shelly McNeill, Dr. Guy Boivin, Dr. Emmanuel Bujold, Dr. Katy Gouin, Dr. Catherine McCourt, Dr. Louise Pelletier, Dr. Rache Rodin, Dr. Anne-Marie Ugnat, Dr. Brenda Coleman, Dr. Allison McGeer, Dr. Kellie Murphy, Dr. Matthew Sermer, Dr. Jennie Johnstone, Dr. Mark Loeb, Dr. Steven Drews, Dr. Dr. Marie Louie, Dr. Thomas Louie, Dr. Reg Sauve, Dr. Leonora Henderson, Dr. Mark Joffe, Dr. Bonita Lee, Dr. Michelle Levy, Dr. Geoffrey Taylor, Dr. George Zahariadis, Dr. Deborah Money


13. **Personal – Heart and Stroke Foundation of Ontario/Canada** – Funded Clinician-Scientist. Phase II, 2010-2013 ($55,000 per year plus research stipend)

14. **Mentee** – Corrine Davies-Schinkel. The Queen Elizabeth II/Dr. Arnie Aberman Graduate Scholarships in Science and Technology University of Toronto School of Graduate Studies 2011/2012 ($15000). I am the primary supervisor for this award.
Jan Friedrich (St. Michael's Hospital)

**Peer Reviewed Publications:**


3. Friedrich JO, Adhikari NKJ, Beyene J. Ratio of means for analyzing continuous outcomes in meta-analysis performed as well as mean difference methods. *J Clin Epidem* 2011 May; 64: 556-64.


**Abstracts:**


John Granton (Toronto General Hospital, University Health Network)

Peer Reviewed Publications:


Non-peer Reviewed Book Chapters:

Presentations/Lectures:


2011 Mar 26 Invited Lecturer. Treatment of pulmonary hypertension in the ICU. 10th international pulmonary hypertension forum. Munich, Germany. (Continuing Education).

2011 Mar 26 Chair. Pulmonary hypertension in other conditions. 10 international pulmonary hypertension forum. Munich, Germany. Presenter(s): Dr. Wells, Dr. Adir and Dr. Pepke-Zada. (Continuing Education).


2011 Nov 16 Invited Lecturer. Understanding PVR. Canadian Critical Care Forum. Toronto, Ontario, Canada. Presenter(s): Presented on the concept of pulmonary vascular resistance, limitations of current measurement and alternative approaches to understanding right ventricular afterload. (Continuing Education).


Research Funding:

1. 2011 Nov - 2012 Oct **Supervisor.** Osteopontin in Idiopathic Pulmonary Arterial Hypertension, A Biomarker and Therapeutic Target. Enteligence Award Program. 100,000 USD. [Research Fellowships].


4. 2009 Apr - 2012 Apr **Co-applicant.** The Oscillation for ARDS Treated Early (OSCILLATE) Trial. CIHR. 4,051,583 CAD. [Grants].

5. 2009 Apr - 2012 Apr **Co-Principal Investigator.** Prospective Evaluation of Long-term Outcomes after Pulmonary Embolism: ELOPE. Canadian Institutes of Health Research (CIHR). 829,330 CAD. [Grants].
**Sara Gray** (St. Michael’s Hospital)

**Presentations/Lectures:**


**Research Funding:**


Peer Reviewed Publications:


In Press:


Non-peer Reviewed Book Chapters:


Presentations/Lectures:


7. 2011 Mar **Facilitator**. Brain Monitoring Workshop. 6th World Congress on Pediatric Critical Care, Sydney Convention and Exhibition Centre. Sydney, Australia.


**Research Funding:**


3. 2010 Feb - 2012 Feb  **Principal Applicant.** Neuroimaging proof of concept. Ontario Neurotrauma Foundation (ONF). 99,975  *The Pediatric TBI CT Scan Tool.*


5. 2009 May - 2011 Apr  **Principal Applicant.** Brain injury and repair in critically ill children. Hospital for Sick Children. Research Institute Funds. 94,000.
Cameron Guest (Sunnybrook Health Sciences Centre)

Peer Reviewed Publications:


Presentations/Lectures:

2. Guest CB. Scientific Research and Experimental Development Tax Credits. Medical-Dental-Midwifery Staff Association, Sunnybrook Health Sciences Centre, 2011.
5. Guest CB. Scientific Research and Experimental Development Tax Credits. Senior Medical Council, Sunnybrook Health Sciences Centre, 2011.
Laura Hawryluck (Toronto General Hospital, University Health Network)

**Peer Reviewed Publications:**


**Presentations/Lectures:**

1. Ethical and legal issues around end of life care, futility and conflict, Does CPR always have to be offered? workshops (2) CRISP PGY 1-3 Internal Medicine May 2011


3. The Medical Chart: a forensic Analysis, University of Toronto and Osgoode Hall Law School September 2011

4. The Medical Chart: a forensic Analysis, University of Ottawa Law School September 2011

5. Law for International Critical care Fellows, University of Toronto, December 2011

6. **Distinguished Speaker.** Advance Burn Care week long course. Choithram Hospital and Research Centre Indore India, Indore, Indore, India. Presenter(s): Laura Hawryluck. acute resuscitation, leadership and crisis management, analgesia and sedation, triage and resource allocation, decision-making, end of life care, conflict management. 2011 Nov 20

7. **Chair.** Acute Resuscitation Symposium. Ontario, Canada. Day long innovative interactive resuscitation on acute resuscitation. 2011 Mar 29

**Research Funding:**

   
   Total Amount: 12,500 CAD.
   
2. Ethics and Values in Health Policy: improving care transitions for Ontario patients across the continuum of care, PHSI $336,947.00, CO-investigator 2011-2014

3. Development of a standard ethical framework to shape health policy development in Ontario with MHLTC Health Policy division, CIHR Co-PI, $12,500 2010-present


5. Educational needs assessment for Critical Care in Nepal co-PI, 2011-present unfunded

6. Continuity of Care Rounds: an innovative approach to improving quality of care of longer stay MSICU patients co-PI, 2011-present unfunded

7. Off service patients: can CCRT meet their care needs, co-PI 2011-present unfunded

8. Resuscitation Outcomes Consortium Amiodarone, Lidocaine or Neither for out of hospital cardiac arrest due to VF or VT. Co-Investigator REB 11-0503B 2011-May 2013


10. Hemodynamics post lung transplant in patients with pulmonary hypertension, Co-PI, 2010-present unfunded

11. Resuscitation Outcome Consortium Amiodarone, Lidocaine or placebo for out of hospital cardiac arrest in ventricular fibrillation or ventricular tachycardia, NIH funded, UHN site lead 2011

12. Resuscitation Outcome consortium Trial of continuous compressions vs standard CPR in patients with out of hospital cardiac arrest, NIH multi-site trial, UHN site lead 2011
Peer Reviewed Publications:


In Press:


Review Articles, Letters, and Editorials:


Book Chapters:


Abstracts:


Presentations/Lectures:


**Research Funding:**


**Patricia Houston** (St. Michael’s Hospital)

**Presentations/Lectures:**


3. Obstetric Teams and the Anesthetist – A Study in Progress. Sharma S, **Houston P**, Morgan P, Reeves S. (Abstract accepted for oral presentation). 1st International Conference on Faculty Development in the Health Professions. Faculty of Medicine, University of Toronto May 2011. Toronto, Canada

4. The Role of the Vice President, Education at St. Michael’s. The Ottawa Hospital. September 2011. Ottawa, Canada.

5. Overview of the Education Portfolio at St. Michael’s Hospital. Shantou Delegation Visit to Li Ka Shing International Healthcare Education Centre. September 2011. Toronto, Canada


7. Medical School Administration and Financing: Improving the Student Experience. East West Alliance Meeting. May 2011. Shantou, China

Tilman Humpl (Hospital for Sick Children)

**Peer Reviewed Publications:**


**Non-peer Reviewed Books/Chapters:**

1. Beghetti M. Co Editors; Barst RJ, Berger RMF, **Humpl T**, Dunbar I, Schulze-Neick I. Pediatric Pulmonary Hypertension, 2011 Elseiver GmbH, Munich


**Presentations/Lectures:**


4. Berger RMF, **Humpl T**, Schulze Neick I, Raskob GE, Ivy DD, Jing ZC, Bonnet D, Beghetti M, Barst RJ on Behalf of the TOPP Study Group. TOPP: Clinical features of pediatric pulmonary
hypertension in a global. 45th Annual Meeting of the Association of European Paediatric Cardiology. Granada Spain, May 2011 SRI


9. Results from the EXCOR® Pediatric IDE Trial. Berlin, Germany, November 2011


12. Mechanical support and its role in the salvage of patients with pulmonary hypertension: bridge or destination therapy? 4th Conference on Childhood Pulmonary Vascular Disease. San Francisco, California, USA, March 2011


14. Unusual forms of Pulmonary Arterial Hypertension and Congenital Heart Disease. ACTIVATE, Vienna, Austria, February 2011
Jamie Hutchison (Hospital for Sick Children)

**Peer Reviewed Publications:**


**In Press:**


**Book Chapters:**


**Abstracts:**

1. Nguyen A, Sutcliffe IT, Doherty DR, Shih J, Baumann E, Michaud E, Stanimirovic D, Hutchison JS. The anti-inflammatory effects of hypothermia therapy following global cerebral ischemia in C57Bl/6 mice. World Congress of Pediatric Critical Care Medicine, Sydney, Australia, March 14 to 17, 2011.


**Presentations/Lectures:**

   Session Chair: Cardiopulmonary Resuscitation
   Lecture: Neurocritical Care: How to use biomarkers of cerebral ischemia and neurotrauma.

2. Paediatric Neurocritical Care Conference, Children's Hospital, Padua, Italy, November 10 and 11, 2011
   Lectures: 1. How to develop a neurocritical care research network
             2. Mechanisms of neuroprotection
Session Chair: Neurocritical Care.

4. 6th World Congress on Pediatric Critical Care; March 14 to 17, 2011; Sydney, Australia.
Chair: Sedation and Analgesia in Acquired brain Injury
Management of Severe Traumatic Brain Injury
Lectures:
1. Oxygen and the brain
2. Neuromonitoring
3. Omics in brain injury
4. Management of traumatic brain injury

5. Current Concepts in Pediatric Critical Care, Society for Critical Care Medicine,
January 14th, 2011, San Diego, California
Clinical, physiologic and pharmacologic effects of hypothermia therapy.

Research Funding:


2. 2010-2015 National Heart Lung and Blood Institute. A randomized controlled trial of Therapeutic Hypothermia After Pediatric Cardiac Arrest (THAPCA). Moler F and Dean M. Hutchison J (Co-Investigator, 10% salary support as site-PI and member Executive Committee + payment per patient enrolled). $21,000,000.00 (US).


10. 2007-2011 Ontario Neurotrauma Foundation. Attention and Traumatic Brain Injury. Hutchison JS (Co-Principal Investigator), Schachar R (Co-Principal Investigator), Perez-Valezquez H, Dennis M, Raubaud C. $250,000.00.
Brian Kavanagh (Hospital for Sick Children)

Peer Reviewed Publications:


Book Chapters:


Presentations/Lectures:

   • Role of HFOV in ARDS
2. 17th Annual Winterlude Symposium, Department of Anesthesiology, University of Ottawa, **Ottawa, Canada, February 2011**
   - *(Pro/Con Debate)* This house is of the opinion that recent research tells us how to ventilate normal lungs

3. 6th World Congress on Pediatric Critical Care, **Sydney, Australia, March 2011**
   - *(Pro/Con Debate)* NICE or not so NICE: Tight glycemic control in children.
   - Understanding VILI in children
   - Novel ventilatory strategies
   - *(Pro/Con Debate)* Conventional RCTs in children are inappropriate

4. 31st International Symposium of Intensive Care and Emergency Medicine, **Brussels, Belgium, March 2011**
   - Atelectrauma is not important
   - *(Moderator)* The host response to infection
   - *(Pro/Con Debate)* Hypercapnia is good for you
   - Negative-pressure ventilation may be better
   - What do we know about PEEP levels?
   - Glucose control: Review of the evidence

5. 2nd Saudi Critical Care Society International Conference, **Riyadh, Saudi Arabia, April 2011**
   - Current evidence and future direction in pathogenesis of VILI
   - CO2 in PICU
   - Protocols in acute care

6. American Thoracic Society Annual Meeting, **Denver, USA, May 2011**
   - *(Co-Chair)* Mini Symposium: Lung Injury in the Intensive Care Unit: Mechanisms, Therapies, Physiology and Outcomes
   - *(Lead Facilitator)* Poster Session: Acute Lung Injury: Diverse Novel Insights
   - *(Co-Chair)* The Consequences of Five Important Papers: From the Author (and the Editor)
   - *(Co-Chair)* *(Non)Permissive Hypercapnia: Bench to Bedside

7. 52nd Annual McGill Anesthesia Update, **Montreal, Canada, May 2011**
   - Guidelines and protocols for the pediatric patient in the acute care setting

8. ERASMUS Critical Care Days, **Rotterdam, the Netherlands, June 2011**
   - Molecular mechanism of lung injury (key note lecture)
   - Ethics and Ventilation session (Co-Chair)
   - Protective ventilation should be done in all our patients: relevant for all age groups in pediatrics?

9. 6th International Pediatric Transplant Association (IPTA) Congress on Pediatric Transplantation, **Montreal, Canada, June 2011**
   - Donation after cardiac death in children: experience and outcomes

10. 8th Symposium of Neonatal & Pediatric Mechanical Ventilation, **Sao Paulo, Brazil, August 2011**
    - Mechanisms of ventilator induced lung injury; Are lungs more susceptible to injury induced by ventilation?; As a gene may contribute to acute lung injury; Therapeutic permissive hypercapnia; Volume control on SDR

11. 21st Argentinean Congress on Pediatric Critical Care, **Puerto Madryn, Argentina, August 2011**
    - Acute pulmonary injury (plenary session)
    - Mechanical ventilation: strategy for pulmonary protection

12. Massachusetts General Hospital – Department of Anesthesia, **Boston, USA, September 2011**
Invited speaker – Anesthesia Grand Rounds (Glucose Control in Acute Care – Lessons from Clinical Trials)

   • Invited speaker - Refresher Course Lecturer (Pulmonary Hypertension)

14. European Society of Intensive Care Medicine, Berlin, Germany, October 2011
   • Hypercapnia and Lung Injury; Monitoring Oxygenation; Management of ICU Hyperglycemia

15. IPOKRATES Sepsis Meeting, Cape Town, South Africa, October 2011
   • Ventilator-Induced Lung Injury; Glucose Management in ICU

   • Threats and opportunities: The future of critical care (co-moderator)
   • Plenary session – Activated Protein C (co-moderator)
   • Settling (only) for Best – Shaping Excellence in ICU Care (co-moderator)
   • ARDS: therapeutics – what causes VILI?
   • Organ donation in the Pediatric ICU

17. Bowman Symposium on Lung Development, Winnipeg, Canada, November 2011
   • Ventilator-Induced Lung Injury in Neonates

18. Ibero-American Congress of Intensive Care, Cartagena, Colombia, December 2011
   • CO2: friend or enemy?
   • Biologic markers in ARDS
   • A practical approach to alveolar recruitment

Research Funding:

1. Therapeutic Potential of Hepoxilin Analogues (Operating Grant) Canadian Institutes of Health Research (CIHR) Co-Principal applicant
   PI: M Post 2008-2013 620,000

2. Ventilator-Induced Lung Injury: Linking gene activation, physiology and outcome (Operating Grant) Canadian Institutes of Health Research (CIHR) Principal Applicant Co-applicant
   M Post 2008-2013 643,000

3. Preclinical Assessment of Therapeutic Hypercapnia (Operating Grant) Canadian Institutes of Health Research (CIHR)
   Sole Applicant (Renewal) 2009-2014 563,000
David Klein (St. Michael’s Hospital)

**Peer Reviewed Publications:**


**In Press:**


**Abstracts:**


**Presentations/Lectures:**


**Research Funding:**

1. 2011 Jan - 2013 Jan Co-Investigator. STandard versus Accelerated initiation of Renal Replacement Therapy in Acute Kidney Injury (STARRT-AKI). Canadian Institute for Health Research (CIHR). PI: Wald, R. Collaborators: Sean Bagshaw; Neill Adhikari; Karen Burns; Jan Friedrich; Amit Garg; Michelle Hladunewich; Andrew House, Steven Lapinsky; Orla Smith; Kevin Thorpe; Robert Richardson. 275,000 CAD. [Grants].
Peer Reviewed Publications:


Abstracts:

1. International Pediatric Simulation Symposia and Workshop, Toulouse, France October 2011
   Becoming and Educator in Simulation – Current Status and FutureDirection
Stephen Lapinsky (Mount Sinai Hospital)

**Peer Reviewed Publications:**


**Abstracts:**

1. Gopal, Archana; Yeung, Melanie; Lapinsky, Stephen; Cuthbertson, Brian H.; Granton, John; Steel, Andrew; Cafazzo, Joseph. DESIGN AND EVALUATION OF AN ELECTRONIC VITAL SIGNS CAPTURE AND SURVEILLANCE SYSTEM. Critical Care Canada Forum 2011

**Presentations/Lectures:**

1. 2011 April Emirates Critical Care Conference, Dubai, UAE
   "Workshop: Data, Information and Knowledge Management in Critical Care"

2. 2011 Nov Critical Care Canada Forum, Toronto
   "NIV overview: indications and interfaces"
   "Lung symptoms, pregnancy and the ICU"

3. 2011 Nov Medical Disorders in Pregnancy, Maternal-Fetal Medicine, Mount Sinai Hospital, Toronto
   "Pregnant patients and the ICU"

**Research Funding:**

Institutes of Health Research (CIHR). PI: Wald, Ron. 227,720 CAD. [Clinical Trials].


3. 2010 - 2012 Collaborative H1N1 influenza adjuvant treatment (CHAT) pilot trial. PSI, CIHR
   PI: Dr. J. Marshall

Bernard Lawless (St. Michael’s Hospital)

**Book Chapters:**


**Presentations/Lectures:**


**Research Funding:**


**Peer Reviewed Publications:**


**Presentations/Lectures:**


2. 2011 Sep 29 **Invited Speaker.** Conflict Resolution in the ICU. International Fellowship Program, Mount Sinai Hospital and UHN. Toronto, Ontario, Canada.

3. 2011 Aug 12 **Invited Speaker.** Patient centred, value based, goal directed care planning. Meet the professor, Mount Sinai Hospital and UHN. Toronto, Ontario, Canada.

4. 2011 Jul 5 **Invited Speaker.** Summer Physiology Series; Shunt, Deadspace. University of Toronto, Critical Care Program. Toronto, Ontario, Canada.
Warren Lee (St. Michael’s Hospital)

Peer Reviewed Publications:


Presentations/Lectures:

1. 2011 May **Supervisor.** BisC from Mycobacterium tuberculosis has a role in fatty acid metabolism. American Society of Microbiology. New Orleans, United States. Presenter(s): Tran V, Burke A, Liu J, Lee WL. (Trainee Presentation).


4. 2011 Jun **Supervisor.** Critical Care Medicine Research Day. Toronto, Canada. Presenter(s): Susan M. Armstrong. (Trainee Presentation). **Winner, Best Poster Presentation (Basic Science) – her second year in a row.**

5. 2011 Jun **Supervisor.** Examining superinfection: reduced neutrophil transendothelial migration following infection with influenza virus. Summer Student Research Day, Keenan Research Centre, St. Michael’s Hospital. Presenter(s): Adrian Budhram (summer student). (Trainee Presentation). **Honourable Mention, Poster Presentation**

Research Funding:


2. 2011 Apr - 2014 Apr **Principal Investigator.** Pathogenesis of severe disease from influenza - role and mechanisms of microvascular leak. Early Research Award, Ministry of Research and Innovation (Ontario). 150,000 CAD. [Grants].

3. 2010 Jul - 2011 Jun **Principal Investigator.** Influenza infection of human endothelium leads to microvascular leak: cellular and molecular mechanisms. Ontario Thoracic Society. Collaborators: Dr. Theo Moraes, Hospital for Sick Children. 50,000 CAD. [Grants] **Top-rated grant (basic and clinical research) nation-wide.**

Advani. 300,000 CAD. [Grants].

5. 2009 Jul - 2012 Jun  **Principal Investigator.** CIHR Clinician Scientist Phase II. CIHR. 300,000 CAD. [Grants].

6. 2009 Apr - 2012 Mar  **Principal Investigator.** Determining the mechanisms of resistance of Mycobacterium tuberculosis to innate immunity: role of BisC. J. P. Bickell Foundation. 60,000 CAD. [Grants].

7. 2008 Feb - 2013 Jan  **Principal Investigator.** Determining the role of BisC in the resistance of Mycobacterium tuberculosis to innate immunity. Dean’s Fund, University of Toronto. 10,000 CAD. [Grants].
**Peer Reviewed Publications:**


**Presentations/Lectures:**


3. Visiting Professor, Department of Critical Care Medicine, University of Pittsburgh School of Medicine, February 22, 23, 2011. 1. The caspase-8 survivalsome: Mechanisms of prolonged
neutrophil survival in trauma and sepsis. 2. Catalyzing global collaboration in critical care research: The InFACT H1N1 initiative.


6. 8th National Congress on Advances in Anesthesiology and Resuscitation, Shanghai, China, March 26, 2011. Sepsis: From basic biology to clinical management.


11. XIV Foro Internacional de Medicina Crítica, Mexico City, Mexico, July 8-10, 2011. 1. PIRO: A staging system for critical illness. 2. Resuscitation and deresuscitation. 3. Damage control for the intensivist.


15. 24th Annual Congress, European Society of Intensive Care Medicine, Berlin, Germany, October 1-5, 2011. 1. Building a research team. 2. Grant writing: What you should know. 3. The concept of run-in trials. 4. Care of the septic patient is best advanced by targeting the doctor.


Resuscitation and deresuscitation. 5. InFACT: Global collaboration in critical care research.

Research Funding:

1. Age of blood evaluation (ABLE) trial in the resuscitation of critically ill patients (PI Dr. Jacques Lacroix) Canadian Institutes of Health Research $2,927,294, 2008-2011

2. Characterization of a novel, caspase-8-dependent survival pathway in inflammatory neutrophils. Canadian Institutes of Health Research ($100,277/year, 2009-2014)

3. The RECOVER Program: Phase I Towards RECOVER – Outcomes and needs assessment in survivors of prolonged mechanical ventilation and their caregivers. (Co-investigator; PI Herridge MS, Cameron JI) Canadian Institutes of Health Research ($704,367, 2009-2013)

4. Influenza-and H1N1-Related Critical Illness - Demand and Capacity in the Health Care System: the Canadian ICU Flu Study (Co-investigator; PIs Drs. Robert Fowler, Philippe Jouvet) Canadian Institutes of Health Research; $597,681 2009-2011.

5. The Collaborative H1N1 Adjuvant Therapy (CHAT) Trial: Rosuvastatin versus placebo as adjuvant therapy for severe H1N1 infection. (Principle Investigator; Co-investigator Dr. Karen Burns) Canadian Institutes of Health Research; $200,000, 2010-2011.

6. EPITEC - Epidemiology of ThromboEmbolism in Critical care. (Co-investigator, PI Dr. Deborah Cook) Canadian Institutes of Health Research; $30,000 2010/2011


8. Weaning and Variability Evaluation (WAVE)- a multicenter evaluation of altered heart rate and respiratory rate variability to predict extubation failure (Co-investigator; PI Dr. Andrew Seely) Canadian Institutes of Health Research; $98,245 2010/2011.

David Mazer (St. Michael’s Hospital)

Peer Reviewed Publications:


Abstracts:


5. Tsui AKY, Marsden PA, Henkelman RM, Mazer CD, Hare GMT. Utilizing HIF-(ODD) Luciferase mice to determine the hypoxic threshold after recovery from hemodilutional anemia. Society of Cardiovascular Anesthesiologists annual meeting. April 30-May 4, 2011. Savannah, GA.

6. Tsui AKY, Marsden PA, Henkelman RM, Lee KM, Mazer CD, Hare GMT. Differences in organ specific HIF-α expression before and after acute anemia in HIF-α (ODD) Luciferase mice. IARS Annual Meeting, May 2011 Vancouver, BC.


Presentations/Lectures:


Research Funding:

1. Improving outcomes in cardiac surgery: strategies to reduce tissue hypoxia. University of Toronto, Department of Anesthesia 2011 Merit Award Research Competition, 2011-2013


5. Translational studies of mechanisms of renal dysfunction following cardiopulmonary bypass: The role of tissue hypoxia. University of Toronto, Department of Anesthesia 2009 Merit Award Research Competition, 2009-2011.

Sangeeta Mehta (Mount Sinai Hospital)

**Peer Reviewed Publications:**


**Non Peer Reviewed Publications:**


**In Press:**


**Abstracts:**

1. D Heels-Ansdell, N Zytaruk, M Meade, S Mehta, R Hall, R Zarychanski, M Rocha, W Lim, F Lamontagne, L McIntyre, P Dodek, S Vallance, A Davies, J Cooper, D Cook for the PROTECT
Investigators, CCCTG and ANZICS CTG. Pulmonary Embolism In Medical-Surgical ICU Patients. Critical Care 2011, 15 (Suppl 1):P19


Presentations/Lectures:

2. On being a doctor. Lambton Kingsway Junior Middle School. April 8, 2011.

3. Clinical Research in the Medical Surgical ICU. ICU Respiratory Therapist Research Education Day. Mount Sinai Hospital, May 18, 2011.

4. Non-invasive ventilation. Department of Medicine subspecialty noon rounds, Mount Sinai Hospital, June 13, 2011.

5. Chest X-ray interpretation. Department of medicine subspecialty noon rounds, Mount Sinai Hospital, September 8, 2011.


7. Respiratory failure. Department of Medicine subspecialty noon rounds, Mount Sinai Hospital, December 9, 2011.


Research Funding:

1. SLEAP: A randomized trial of daily sedative interruption in critically ill, mechanically ventilated patients being managed with a sedation protocol.
   Principal Investigator
   Granting agency: CIHR application # 171322, 2007-2011
   Year 1 funds: $465,914, Total funds: $999,832

   Co-Investigator. PIs Drs. M. Herridge and J. Cameron.
   Granting agency: Alternate Funding Plan Innovation Fund- Ministry of Health- Province of Ontario; $185,000 for Funding period 04/09-03/11

3. OSCILLation for ARDS Treated Early (OSCILLATE) Trial
   Co-Investigator. PI Dr. M. Meade.
   Granting Agency: CIHR
   2009-2014, Year 1 $691,537

   Co-Investigator. PIs Drs. M. Herridge and J. Cameron.
   2009-2011: $754,357

5. SLEAP-PS: Psychological morbidity associated with two sedation strategies in the critically-ill.
   Principal Investigator.
   Granting agency: Canadian Intensive Care Foundation.
Funding period March 2010 – April 2011, Total funds $25,000.

6. SLEAP- Sleep, Cognition and Psychology (SLEAP-SCP): Psychological, cognitive and sleep morbidity following the use of a sedation protocol vs a sedation protocol and daily sedative interruption in critically ill, mechanically ventilated adults.
   Co-principal Investigator, with Dr. Jonathan Hunter.
   Granting agency: CIHR Operating Grant Program
   Funding period: Oct 2010 – Sept 2012, Total funds $63,494

7. EPITEC - Epidemiology of ThromboEmbolism in Critical care.
   Co-Investigator. PI: Dr. D. Cook
   Granting agency: CIHR
   Funding period: Oct 2010 – Sept 2011, Total funds $63,899

8. Daily sedation interruption versus no daily sedation interruption for critically ill adult patients requiring invasive mechanical ventilation: A systematic review.
   Co-Investigator, PI Dr. Lisa Burry
   Granting agency: Canadian Society of Hospital Pharmacists Research and Education Foundation

9. A prospective evaluation of the association between psychoactive medications and delirium in critically ill adults.
   Co-Investigator. PI Dr. Lisa Burry
   Granting agency: University of Toronto Rx & D Pilot Research Grant in Clinical Pharmacy Research for 2011

10. Antimicrobial Stewardship Programs (ASP) in Intensive Care units in Ontario Academic Hospitals.
    Co-investigator, PI Dr. Andrew Morris
    Granting Agency: Council of Academic Hospitals of Ontario (CAHO).
    Funding period: December 2011 to November 2012. Total funds $768,000.
Briseida Mema (Hospital for Sick Children)

Presentations/Lectures:

1. **National Conference of Pediatric Critical Care, Hyderabad, India, 2011**
   Simulation as a learning tool in PICU

2. **National Conference of Pediatric Critical Care, Hyderabad, India, 2011**
   Training the Pediatric intensivist

3. **National Conference of Pediatric Critical Care, Hyderabad, India, 2011**
   Catheter Related Blood Stream Infections

4. **National Conference of Pediatric Critical Care, Hyderabad, India, 2011**
   Workshop on Simulation of Pediatric emergencies – Faculty

5. **National Conference of Pediatric Critical Care, Hyderabad, India, 2011**
   Procedural Workshop - Faculty

6. **56th OMA Anesthesia Meeting, Toronto, 2011**
   Surviving Sepsis

7. **Department of Pediatric Grand Round, Hamad Medical Corporation, Doha, Qatar, 2011**
   Surviving Sepsis: The good, the bad and the ugly

8. **CDH Toronto Inaugural Meeting, Toronto, 2011**
   6 challenging cases, presenter/ facilitator

9. **Critical Care Research Rounds (Special Presentation on Education), Toronto, 2011**
   Procedures in Medical Education: Beyond … “See one, teach one, kill one …”

10. **Pediatric ORNGE Education Day, 2011**
    Pulmonary Hypertension: How do you handle the transport?

11. **CONFES Rounds “The Academic Home of the Pediatric Medicine Fellowships”, 2011**
    Septic Shock: Applying physiology to management
Peer Reviewed Publications:


Peer Reviewed Publications:


In Press:


**Book Chapters:**


**Multimedia:**


**Presentations/Lectures:**


6. 2011 Sep  Visiting Professor. Trauma Quality Improvement. Department of Surgery, University of New Mexico. Albuquerque, New Mexico, United States. Presenter(s): Nathens AB.

7. 2011 Aug  Invited Speaker. Performance indicators in NTDB and TQIP. Japan Trauma DataBank (International Surgical Week). Tokyo, Japan. Presenter(s): Nathens AB.

8. 2011 Aug  Invited Speaker. American College of Surgeons Trauma Quality Improvement Program. Western States Rural Trauma Leadership Conference. Park City, Utah, United States. Presenter(s): Nathens AB.


10. 2011 Aug  Invited Speaker. ACS Trauma Quality Improvement Program. Western States Trauma Leadership Forum. Park City, Utah, United States. Presenter(s): Nathens AB.

Zagorski, Ori Rotstein, David Gomez, Barbara Haas, Andreas Laupacis, Sunjay Sharma, Jennifer Bridge, Avery B. Nathens. (oral presentation).


Research Funding:


2. 2011 Apr - 2013 Apr Principal Investigator. Improving Patient Transition from Acute Trauma Care Hospitalization: Identifying information and communication gaps during the discharge process. Ministry of Health and Long Term Care - Innovation Funding. MOHLTCI AHSC AFP Innovation Fund. Collaborators: Jennifer Bridge. 23,000 CAD. [Grants]


5. 2010 Jul - 2012 Jun Co-Principal Investigator. From Data to Daily Practice: An Integrative Approach to Improving Trauma Centre Access in Rural Regions. Canadian Institutes of Health Research (CIHR). Fellowship. PI: Haas B. Collaborators: Gagliardi A. 110,000 CAD. [Grants]


14. 2006 Jul - 2011 Jun  **Principal Investigator.** Canada Research Chair in Trauma Systems Development. Canadian Institutes of Health Research (CIHR). 500,000 CAD. [Grants].
Piuseppe Papia (Sunnybrook Health Sciences Centre)

Peer Reviewed Publications:


Presentations/Lectures:

1. 2011 Apr 19 Invited Lecturer. The use of checklists and bundles to reduce patient harm and improve healthcare. Vascular Surgery Grand Rounds, Cleveland Clinic Foundation Department Vascular Surgery. Cleveland, Ohio, United States. Presenter(s): Papia, G.


Research Funding:

Chris Parshuram (Hospital for Sick Children)

Peer Reviewed Publications:

1. Uppal N, Yasseen B, Seto W, Parshuram CS. Drug formulations that require less than 0.1 mL of stock solution to prepare doses for infants and children. CMAJ 2011. DOI:10.1503 [SRA]


5. de Wildt SN, van Schaik RH, Soldin OP, Soldin SJ, Brojeni PY, van der Heiden IP, Parshuram CS, Nulman I, Koren G: The interactions of age, genetics, and disease severity on tacrolimus dosing requirements after pediatric kidney and liver transplantation. 2011 Dec;67(12):1231-41. [C]


In Press:

1. Accepted Pediatric Critical Care Medicine S Ebrahim, S Singh, JS Hutchison, AV Kulkarni, R Sananes, KW Bowman, Parshuram CS. Adaptive behavior, functional and quality of life outcomes of children requiring urgent ICU admission

Presentations/Lectures:


3. 2011 Interdepartmental Division of Critical Care Medicine Residents Day

4. Presenter: The Bedside PEWS
   Grand Rounds, North York General Hospital, Toronto, Jan 2011

5. Presenter: Methods to detect evolving critical illness in hospitalized children
   City-wide Research Rounds University of Toronto Critical Care Program, August 2011

   CIHR Grant Writing Workshop. Hollywood Theatre, Hospital for Sick Children, Toronto, August 2011

7. Expert Panel Member
   Departmental Research Rounds, Department of Critical Care Medicine, Hospital for Sick Children, December 2011.
   Supervising Presenter with R Osborne (IMS graduate student)

   Invited Speaker: Challenges of medication safety for children

9. Invited Presenter: The IoM report on residents: sleep, supervision & safety
   6th World Congress on Pediatric Critical Care, Sydney NSW, Australia March 2011

10. Invited Speaker: Identifying child deterioration
    Grand Rounds, Our Lady Childrens Hospital, Dublin, Ireland. May 2011

11. Invited Speaker: Duty Hours, enhancing sleep, supervision & safety.

12. Invited speaker: Introducing EPOCH a cluster randomized trial of the Bedside PEWS: rationale, development and design

    Invited speaker: Towards the truth about Early Warning Systems in children.

    Invited speaker: EPOCH: rationale for and design of this cluster randomized trial of an intervention to prevent cardiopulmonary arrest in children.

    Invited speaker: The rationale for and design of a cluster randomized trial of a documentation-based system of care to prevent cardiopulmonary arrest in children.


17. Invited speaker: Introducing EPOCH: rationale, design and outcomes.
    Canada Critical Care Forum, Toronto ON November 2011

18. Invited Presenter: Communication in ICU
Research Funding:

1. 2010-14 Canadian Institutes of Health Research
   The Bedside Paediatric Early Warning System: a cluster RCT of mortality and processes of care. $3,000,000

2. 2009-11 Canadian Institutes of Health Research
   Safer Medications for Children: Quantifying nephrotoxicity through secondary analysis of electronic health data. PI: Parshuram. $100,000

3. 2009-12 SickKids Foundation New Investigator Grant
   Non-convulsive Status Epilepticus in Critically Ill Children
   PI: Hann C (Parshuram 5%). $300,000

4. 2010-12 Ontario Neurotrauma Foundation
   The Pediatric TBI CT Scan Tool
   PI Guerguerian A. (Parshuram 5%). $100,000

5. 2009-11 Labbatt Family Heart Center Start-up Grant
   Audio-recording and feedback to improve the performance of resuscitation
   PI: K Taylor (Parshuram 40%). $15,000
Presentations/Lectures:


Abstracts:


Presentations/Lectures:

1. Transcranial Doppler Sonography: Principles and Applications, Invited lecture, Spedali Civili di Brescia, University of Brescia, Italy, November 2011


Research Funding:

1. 2010 – 2011 Co-Investigator, Site Principal Investigator

2. 2009 – 2011 Principal Investigator

3. 2011 – * University of Toronto, Department of Anaesthesia Merit Award.
   $40,000 per year for 2 years (salary support)
Peer Reviewed Publications:

1. Rezende-Neto JB; Oliveira AJ; Neto MP, Botoni F; Rizoli SB. A technical modification for percutaneous tracheostomy: prospective case series study on one hundred patients. World Journal Emergency Surgery. Senior Responsible Author.


15. Jansen JO; Scarpelini S; Pinto R; Tien HC; Callum J; **Rizoli SB**. Hypoperfusion in Severely Injured Trauma Patients is Associated with Reduced Coagulation Factor Activity. Journal of Trauma. 71(5):S435-S440, November 2011. **Senior Responsible Author**.


17. Nascimento B; **Rizoli S**; Rubenfeld G; Lin Y; Callum J; Tien HC. Design and Preliminary Results of a Pilot Randomized Controlled Trial on a 1:1:1 Transfusion Strategy: The Trauma Formula-Driven Versus Laboratory-Guided Study. Journal of Trauma. 71(5):S418-S426, November 2011. **Coauthor or Collaborator**.

18. **Rizoli SB**.; Scarpelini S; Callum J; Nascimento B; Mann KG.; Pinto R; Jansen J; Tien HC. Clotting Factor Deficiency in Early Trauma-Associated Coagulopathy. Journal of Trauma. 71(5):S427-S434, November 2011. **Principal Author**.

19. **Rizoli S**; Nascimento B Jr; Key N; Tien HC; Muraca S; Pinto R; Khalifa M; Plotkin A; Callum J:. Disseminated Intravascular Coagulopathy in the First 24 Hours After Trauma: The Association Between ISTH Score and Anatomopathologic Evidence. Journal of Trauma. 71(5):S441-S447, November 2011. **Principal Author**.

**Book Chapters:**


**Abstracts:**

1. 2011 May What is new in surgical bleeding? The Wisconsin Surgical Club. Toronto, Ontario. Presenter(s): Rizoli S.


7. 2011 Apr  How important are routine laboratory and image tests in the late management of trauma patients? Trauma Association of Canada Annual Scientific Meeting. Banff, Alberta. Presenter(s): Rezende-Neto J, Vieira Jr J, Freitas S, Rizoli S.


Non-peer Reviewed Abstracts:


Presentations/Lectures:


2. 2011 May 26 Lecturer. Trauma and technology. I Simposio Internacional de Trauma do Nordeste. Maceio, Brazil.


Research Funding:


2. 2009 May - present Co-Principal Investigator. Formula-driven versus laboratory-guided transfusion practices in bleeding trauma patients: a feasibility randomized controlled study. TRFL study. Military Health Services, Surgeon General


Year I $84,899.00; Year 2-2008-2009 $82,352.00; Year 3-2009-2010 $163,102.00.


5. 2011 - 2013  **Principal Investigator.** Catecholamines as outcome markers in traumatic brain injury (COMA). Physician Services Incorporated. [Clinical Trials].

Peer Reviewed Publications:


Presentations/Lectures:


31. **2011 Jan 17** Invited Speaker. What is New with Evidence Based Medicine? Society of Critical Care Medicine Conference (SCCM) Presenter(s): Rubenfeld, Gordon D.

32. **2011 Dec 9** Invited Speaker. End of Life Care: controversies and challenges. ED and Trauma Conference. Li Ka Shing Knowledge Institute here at St. Michael’s Hospital. Toronto, Ontario. Presenter(s): Rubenfeld, GD.

33. **2011 Nov 13** Invited Speaker. SESSION 4 - THE GREAT ECMO DEBATE: Real doctors don’t need ECMO for ARDS. CCCF/CCCS Resident’s Day. Toronto, Ontario. Presenter(s): Rubenfeld, GD.

34. **2011 Jun 8** Invited Speaker. ARDS. Critical Care ICU Seminar Series, Sunnybrook Health Sciences Centre. Toronto, Ontario, Canada. Presenter(s): Rubenfeld, GD.

35. **2011 May 31** Invited Speaker. CMV in the ICU. Sunnybrook Health Sciences Centre, City Divisional Rounds, Toronto, Ontario. Presenter(s): Rubenfeld, GD.


**Research Funding:**

1. Trauma System Development in Canada: Overcoming the challenges of geography through an evaluation of structure and process. **Canadian Institutes of Health Research (CIHR).** Team Grant: *Strategic Teams in Applied Injury Research*. Co-Applicant. **$400,000.** 04/2010 - 03/2015


10. Improving Ventilator Management and Preventing Injury to Patients with ARF. National **Heart, Lung, and Blood Institute (NHLBI) (USA)**. Principal Applicant. $4,036,688. 07/2001 – 06/2012

11. Transforming the care of patients with severe traumatic brain injury in Toronto. **Sunnybrook Health Sciences Centre (Toronto, ON)**. Co-Applicant. $499,060. 05/2010 – 04/2012

12. Outcomes of Critically Ill Patients Presenting to Canadian Emergency Departments. **Canadian Institutes of Health Research (CIHR)**. *Partnerships for Health System Improvement (PHSI)*. Co-Applicant. $82,063. 04/2010 - 04/2012


15. Improving care to patients with acute respiratory failure. National **Institutes of Health (NIH) (USA)**. Principal Applicant. $500,000. 09/2006 – 06/2011

16. A Feasibility Study Examining Referral to Community-Based Youth Violence Interventions for Youth Injured by Violence. **Canadian Institutes of Health Research (CIHR)**. *Catalyst Grant: Primary and Community-Based Healthcare*. Co-Applicant. $99,838. 03/2010 – 02/2011


18. Collaborative H1N1 Adjuvant Treatment (CHAT) Pilot Trial. **Canadian Institutes of Health Research (CIHR)**. Co-Applicant. $200,000. 02/2010 – 01-2011
Peer Reviewed Publications:

   Role: Conceived article idea, wrote manuscript. Principal Author.

   Role: Conceived article idea, wrote manuscript. Principal Author.

   Role: Contributed to study idea, developed study methods and analytical approach, contributed to analysis, contributed to manuscript. Coauthor or Collaborator.

   Role: Contributed to study idea, developed study methods and analytical approach, contributed to analysis, contributed to manuscript. Coauthor or Collaborator.

   Role: Contributed to study idea, developed study methods and analytical approach, contributed to analysis, contributed to manuscript. Coauthor or Collaborator.

   Role: Contributed to study idea, developed study methods and analytical approach, contributed to analysis, contributed to manuscript. Coauthor or Collaborator.

   Role: Contributed to study idea, developed study methods and analytical approach, contributed to analysis, contributed to manuscript. Coauthor or Collaborator.

   Role: Conceived study idea, developed study methods and analytical approach, conducted analysis, wrote manuscript. Principal Author.

   Role: Conceived study idea, developed study methods and analytical approach, conducted analysis, wrote manuscript. Co-Principal Author.
Review Articles, Letters, and Editorials:


2. Tremblay LN and Scales DC. Ultrasound-guided tracheostomy - not for the many, but perhaps the few... or the one. Crit Care. 2011 Apr 6;15(2):147. Principal Author.

Abstracts:


Presentations/Lectures:


10. 2011 Mar Visiting Professor. "Don't just do it -- prove it! Studying System-level Interventions for Improving Quality of Critical Care". Pulmonary and Critical Care Grand Rounds.
University of Michigan. Ann Arbor, Michigan, United States. Presenter(s): Scales DC. (Continuing Education).


Research Funding:


My specific contribution: I am the principal investigator on this grant; Responsible for conception, design, writing of grant manuscript, and implementation.

My specific contribution: Contributed to conception, design, and implementation.

My specific contribution: I am a Young Investigator on this grant, and my contribution will be directed at implementation and analysis of this study.

My specific contribution: I will contribute to conception, design, and implementation of subgroup studies; input into analysis of results; contribute to writing of study manuscripts.

My specific contribution: I will contribute to conception, design, and implementation of subgroup studies; input into analysis of results; contribute to writing of study manuscripts.

My specific contribution: Conceived study idea, developed study methods, developed analytical approach, wrote grant proposal.

10. 2009 Apr - 2011 Apr  **Co-Investigator.** Towards RECOVER: Long-term Clinical Outcomes and Needs Assessment in ICU Survivors of Prolonged Mechanical Ventilation and their Caregivers. Ministry of Health Alternate Funding Plan (AFP)

My specific contribution: I will contribute to conception, design, and implementation of subgroup studies; input into analysis of results; contribute to writing of study manuscripts.


My specific contribution: I will contribute to conception, design, and implementation of subgroup studies; input into analysis of results; contribute to writing of study manuscripts.
Steven Schwartz (Hospital for Sick Children)

Peer Reviewed Publications:


In Press:


Book Chapters:


Abstracts:


Presentations/Lectures:

1. **WFPICCS 6th World Congress on Pediatric Critical Care.** Invited Panel Member: Expert Panel Discussion: Controversies in ECLS. Bridging to Transplant or Recovery. Sydney, Australia. March 2011.


3. **WFPICCS 6th World Congress on Pediatric Critical Care.** Invited Panel Member: Expert Panel Discussion: Controversies in ECLS. The role of the cardiologist in ICU; Other Imaging Modalities. Sydney, Australia. March 2011.


Research Funding:

1. 2009-2012 NA 6685 Co-Investigator (HSFO) – The effect of remote ischemic preconditioning on clinical and genomic responses to open heart surgery in children. (Principal Investigators: Redington, AN; McCrindle, BW) - $570,399

2. 2010-2015 104643 Co-Investigator (CIHR) – Clinical Assessment of Thrombosis in Children After Heart Surgery (CATCH) (Principal Investigator: McCrindle, BW) - $1,514,330.

3. 2011-2016 1U10HL109777-01 Principal Investigators (McCrindle, BW; Schwartz, SM; Mital, S) – Pediatric Heart Network – The Hospital for Sick Children, Toronto (Co-Investigators: Benson, L; Brandao, L; Caldarone, C; Chan, A; Gruenwald, C; Holtby, H; Manlihot, C; Mertens, L; Russell, J; Sivarajan, B; Van Arsdell, G; Sananes, R) – Funds requested to the NIH NHLBI, amount 2011-2012 - $1,503,793 US (5 years to 2016 $7,518,965 US).

4. 2011-2014 NA 7183 Principal Investigator (HSFO) - Glucose Homeostasis and Cardiac Output After Paediatric Cardiac Surgery. $195,019.

5. 2011-2013 Principal Investigator (Labatt Family Heart Centre Innovation Fund) - Impact of cardiopulmonary bypass and postoperative cardiac output on the development of postoperative acute kidney injury (AKI), as measured by a novel serum biomarker, neutrophil-gelatinase associated lipocalin (NGAL). $24,000.
**Christer Sinderby** (St. Michael’s Hospital)

**Peer Reviewed Publications:**


**Book Chapters:**


**Abstracts:**

1. Lowson S, Rowley D, Caruso F, Clarke, Beck J, Sinderby C. Application of NAVA after a failed spontaneous breathing trial in patients initially treated with conventional ventilation. To be presented at the ATS Meeting May 2011


**Presentations/Lectures:**


7. 2011  NAVA tutorial, University of Toronto Summer Series, August 17, 2011
Jeffrey Singh (Toronto Western Hospital, University Health Network)

**Peer Reviewed Publications:**


**In Press:**


**Media Appearances:**


**Abstracts:**

1. 2011 Jun 21 **Poster Presentation.** Venous Thromboembolism and Prophylaxis in the Critically Ill Patient with Liver Failure: A Retrospective Cohort Study. Interdepartmental Division of Critical Care Medicine. Toronto. Presenter(s): Dr. Timothy Paterson. Critical Care Medicine Day. (Trainee Presentation).

**Presentations/Lectures:**


7. 2011 May 25 **Speaker.** Quality Improvement in the TWH ICU: Pitfalls, Problems and Pinnacles. University Health Network - Department of Medicine Medical Grand Rounds. Toronto. Presenter(s): Dr. Jeffrey Singh.
Research Funding:

1. 2011 May - 2012 May  **Co-Investigator.** A Prospective Evaluation of the Association between Psychoactive Medications and Delirium in Critically Ill Adults. Rx&D Pilot Research Grant. PI: Burry, Lisa. Collaborators: Louise Rose BN, MN, PhD Scott Kim, BSc David Williamson, MScPharm Marc Perreault, PharmD Dean Fergusson, PhD Marilyn Steinberg RN Hilary Rodrigues, BScPharm Virginia Fernandes, BSc, PharmD Orla Smith, RN, MN  **Jeffrey Singh, MD, FRCPC Sangeeta Mehta MD, FRCPC.** 24,985 CAD. [Grants].

2. 2010 Sep - 2012 Sep  **Co-Principal Investigator.** Innovative approaches to mechanical ventilation in spinal cord injured patients. Ontario Neurotrauma Foundation. Rapid Response - New Investigator. PI: Singh, Jeff. Collaborators: Spahija, Jadranka. 100,000 CAD. [Clinical Trials].

3. 2010 Jan - 2012 Sep  **Principal Investigator.** "Exploration of gender discrepancy in outcomes and utilization of air medical transport". Foundation for Air-medical Research and Education. Collaborators: McDonald, RD. 16,000 USD. [Grants]  **Principal Author / Senior Responsible Author.**
Tasnim Sinuff (Sunnybrook Health Sciences Centre)

Peer Reviewed Publications:

   MY SPECIFIC CONTRIBUTION: Designed and led the conduct of the study, analyzed data, wrote first draft of the paper and revised subsequent drafts of the paper. Co-First Author.

2. Sinuff T. Noninvasive positive pressure ventilation for acute respiratory failure: What role is there for patients declining intubation or choosing palliative? Progress in Palliative Care. 2011;19:223-229
   MY SPECIFIC CONTRIBUTION: Designed and led the conduct of the study, analyzed data, wrote first draft of the paper and revised subsequent drafts of the paper. Principal Author.

Non-peer Reviewed Abstracts:


Presentations/Lectures:


5. 2011 Jan  **Invited Speaker.** ABATE Study Results. Department of Critical Care Medicine, Sunnybrook Health Sciences Centre. Toronto, Ontario, Canada. Presenter(s): **Sinuff, T.** Grand Rounds.

**Research Funding:**


3. 2009 Mar - 2013 Mar  **Co-Investigator.** The RECOVER Program: Phase I Towards RECOVER - Outcomes and Needs Assessment in Survivors of Prolonged Mechanical Ventilation and Their Caregivers. Canadian Institutes of Health Research (CIHR). PI: HERRIDGE, Margaret S; CAMERON, Jill I. Collaborators: ABBEY, Susan E; ADHIKARI, Neill K; BATT, Jane Andrea E; COOK, Deborah J; DOS SANTOS, Claudia C; FERGUSON, Niall D; FLANNERY, John F; FOWLER, Robert A; FRIEDRICH, Jan; LEUNG, General; MARSHALL, John C; MATTE, Andrea L; MEGGISON, Hilary E; MEHTA, Sangeeta; MOODY, Alan R; RUBENFELD, Gordon; RUDKOWSKI, Jill C; SCALES, Damon C; **SINUFF, Tasnim;** SLUTSKY, Arthur S; TANSEY, Catherine M; TOMLINSON, George A. 704,367 CAD. [Grants]

*MY SPECIFIC CONTRIBUTION: Contributed to the writing of the methods section of grant and revisions to grant.*
Peer Reviewed Publications:


In Press:


Book Chapters:


Abstracts:


3. Sep 2011  (Insert title of abstract) Presented as a Poster Presentation at the Pediatric Cardiac Intensive Care Society European Conference & Annual Scientific Meeting of POCS (UK), Cambridge, United Kingdom. (Insert authors)


Presentations/Lectures:

1. Jun 2011  Debate of the day: RCTs in congenital heart surgery are not worth the effort. Session Chair: The 5th Cardiac Symposium: Hypoplastic Left Heart Syndrome and Other Functionally Univentricular Heart Disease. Toronto, CANADA

2. Jun 2011  The Bob Freedom Lecture. Session Chair: The 5th Cardiac Symposium: Hypoplastic Left Heart Syndrome and Other Functionally Univentricular Heart Disease. Toronto, CANADA


10. **Feb 2, 2011**  
   Approach to Common Pediatric Cardiac Problems from the perspective of a Community Paediatrician, Paediatric Resident Lectures.

11. **Feb 2, 2011**  
   A Case-based Approach to the Critically Ill Neonate/Child with suspected Cardiovascular Disease, Paediatric Resident Lectures.

12. **Aug 2, 2011**  
   Cardiopulmonary Interactions, CCU Fellows Teaching.

13. **Sep 13, 2011**  
   RASCH and ARISTOTLE scores, CCU Fellows, Teaching.

14. **Oct 27, 2011**  
   Temporal Hemodynamics and Regional Perfusion After Neonatal Heart Surgery in the Current Era. Acute Care Research Rounds.

15. **Nov 10, 2011**  
   Clinical Outcomes and Thromboembolic complications Related to Recombinant Factor VII Activated Use for Refractory Medical Bleeding after Pediatric Cardiac Surgery. Acute Care Research Rounds.

**Research Funding:**

1. **Apr 2008-11** Heart Centre Innovation Fund  
   - **Amount:** $34,000  
   - **Study:** Effects of Feeding on Splanchnic Blood Flow After Neonatal Cardiac Surgery: A Randomized Controlled Trial  
   - **Role:** PI

2. **Jan 2009-12** Heart Centre Innovation Fund  
   - **Amount:** $6,300  
   - **Study:** Energy Expenditure During Ventilation Weaning: A Randomized Controlled Trial Comparing Conventional Pressure Support CPAP versus Neurally Adjusted Ventilatory Adjustment (NAVA)  
   - **Role:** PI

3. **June 2009-11** Heart Centre Innovation Fund  
   - **Amount:** $3,460  
   - **Study:** Changes in Plasma Arginine and DMA in Neonates  
   - **Role:** PI

4. **Sep 2011-16** NIH NHLBI Pediatric Heart Network  
   - **Amount:** $7,518,965  
   - **Study:** Perform collaborative multi-institutional clinical studies aimed at improving the evidence base on which pediatric cardiology, and the team at SickKids has been a charter member since its inception 10 year ago.  
   - **Role:** COI
Peert Reviewed Publications:


Non Peer Reviewed Publications:


Presentations/Lectures:

1. Society for Critical Care Medicine, San Diego, CA, Jan 14, 2011 - Jan 17, 2011. Should the lung be closed in ARDS?


Research Funding:


2. From Bench to Bedside to Curbside. Clinical Research Consortium to Improve Resuscitation Outcomes. Morrison LJ, Slutsky AS, Dorian P: National Institutes of Health ($600,000) and funding partners: Heart and Stroke Foundation of Canada ($1,500,000) and CIHR (1,000,000) ($3,100,000 2010 - 2016)

3. Resuscitation Outcomes Consortium Core Training Grant: NIH (1,009,800), Heart & Stroke Foundation of Canada (1,500,000), and Canadian Institutes of Health Research (1,000,000). Morrison LJ, Nathens A, Cheskes S, Slutsky AS, Dorian P: National Institutes of Health and funding partners ($35,098,000 2010 - 2016)

Andrew Steel (Toronto General Hospital, University Health Network)

**Peer Reviewed Publications:**


**In Press:**


**Presentations/Lectures:**


4. The rapid response system culture at UHN. Acute Resuscitation Symposium, University Health Network, Toronto General Hospital, Toronto, Ontario. March 31st 2011.


10. Quality of Care in the Intensive Care Unit. Visiting Professor Rounds, Kuwait Cancer Control Centre, Kuwait City, October 25th 2011.
**Peer Reviewed Publications:**


**In Press:**


**Presentations/Lectures:**


Lorraine Tremblay (Sunnybrook Health Sciences Centre)

**Peer Reviewed Publications:**

1. **LN Tremblay:** Radiation from diagnostic imaging in pediatric trauma - Friend or foe? Journal of Trauma: 2011: 70: pp 730-1. PA

2. **L.N. Tremblay, D. Scales:** Ultrasound-guided tracheostomy - not for the many, but perhaps the few/85 or the one. Critical Care: 2011: 15: pp 147. PA

**Abstracts:**


**Presentations/Lectures:**


**Research Funding:**

1. Improving interfacility transfers of trauma patients in southern Ontario using weekly telephone conferencing. **Nathens A; Tien H, L. Tremblay Sunnybrook Physician Lead; S Rizoli, F Brenneman:** AHSC AFP Innovation Fund. ($100,000 2010 - 2011.)

Natalie Wong (St. Michael’s Hospital)

Presentations/Lectures:


Research Funding:

1. 2011 Apr - 2012 Apr Principal Investigator. Basic Life Support (BLS) Training at SMH. AFP Innovations Funds. AFP. SMHAIF-040. Collaborators: Paul Dorian, Laurie Morrison, Patricia Houston, Teodor Grantchorov. 107,853 CAD. [Grants] The primary objective of this innovation project is to improve first responder’s response to in-hospital cardiac arrests with the ultimate goal of increasing survival rates from in-hospital cardiac arrests at St Michael’s Hospital (SMH). This project will develop and test a new, more appropriate BLS training model and devise a strategy for ongoing implementation, evaluation and improvement.

2. 2010 Jul - 2011 Jun Principal Investigator. Basic Life Support (BLS) Training at SMH. Continuing Education Research and Development Awards Committee. Continuing Education. Collaborators: Paul Dorian, Laurie Morrison, Patricia Houston, Teodor Grantchorov. 5,000 CAD. [Grants] To improve first responder’s response to in-hospital cardiac arrests immediately following training as well as at 3, 6, 9, and 12 month intervals post training. This project will develop and test a new, more appropriate BLS training model and devise a strategy for ongoing implementation, evaluation and improvement.
Peer Reviewed Publications:


**Presentations/Lectures:**


2. How to write a research grant? *Visiting Professorship Lecture*, National Key Laboratory of Respiratory Diseases, Guangzhou Medical College, Guangzhou, China, August 4-5, 2011

**Research Funding:**

1. CIHR Operating Grant, Mechanisms of human neutrophil peptides in lung inflammation. 2011.10-2016.9, $828,620