
IDCCM Newsletter

Winter 2022



Department News, Academic Events
Awards, Grants, & Recognition
Publications & many more...



Interdepartmental
Division of Critical
Care Medicine



CONTENTS

| | |
|---|--------------|
| Message from the Director | 3 |
| Awards and Recognitions | 4 |
| Book Launch | 4 |
| Accomplishments | 5 |
| Adult Education Update | 6 |
| Critical Care Bulleting | 7 |
| Critical Care Hockey | 8 |
| Mechanical Ventilation Course 2023 | 9 |
| WINFOCUS | 10 |
| Pictures from WINFOCUS | 11 |
| Blurb from PCCM | 12-15 |
| H. Barrie Fairley Professorship Update | 16-17 |
| Research updates & Upcoming events | 18-19 |
| IDCCM publications | 20-25 |

MESSAGE FROM THE DIRECTOR



Dear colleagues,

Welcome to this Winter Newsletter of the IDCCM and Happy Women's Day (Anna Boberg painting in the Artic, currently at the AGO).

Winter is not yet over and we all hope that we now observe the end of this pandemic and have really turned into a new phase.

Many people suffered during this pandemic. Our Allied Health colleagues had to carry an enormous burden and there is no surprise that human resources is the central problem in our healthcare system these days.

The higher needs for provision of intensive care have been identified and discussion about opening new ICU beds take place almost elsewhere but it cannot go without the necessary manpower.

Our trainees went through very difficult times and I am particularly grateful once again to our teachers and educators who maintained the training at a very high level.

The social aspects and the interactions were often minimized and we are so glad and relieved to see this aspect coming back.

Again, our Alliance Day in April and our Art Slusky Day in June will be important opportunities to regroup, meet and continue to progress.

Research has been maintained in Toronto at a very high level, and to some extent, the pandemic has offered the opportunity to demonstrate a great flexibility in this regard, in order to respond to urgent needs.

I hope you all stay safe, and as happy as possible with a feeling of fulfilment in your work. We have a fantastic job, even if some periods are easier than others.

Enjoy this Newsletter!

Laurent Brochard, MD

Division Director, Interdepartmental Division of Critical Care Medicine

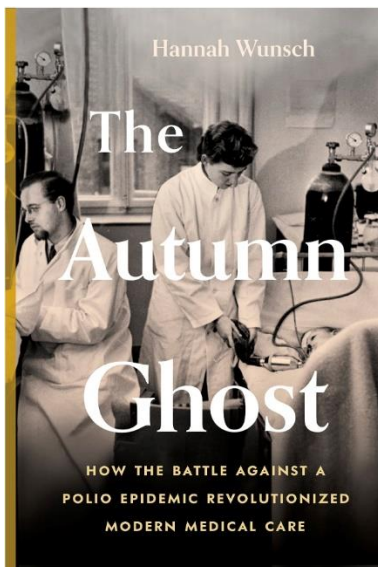


Awards and Recognition



Dr. Karen Burns received the annual ATS Recognition Award for Scientific Accomplishments at the ATS 2023 International Conference in Washington, DC.

The Recognition Award for Scientific Accomplishments recognizes outstanding scientific research contributions in basic or clinical arenas to enhance the understanding, prevention and treatment of respiratory disease, critical illness, or sleep disorders and recognizes exemplary professionalism, collegiality and citizenship through mentorship and scientific involvement in the ATS community.



“The Autumn Ghost”

How the Battle Against a Polio Epidemic Revolutionized Modern Medical Care

By [Hannah Wunsch](#)

Due out May 9, 2023

A suspenseful, authoritative account of how the battle against a mid-century polio epidemic sparked a revolution in medical care.

Accomplishments

On December 2 -4, 2022, the 22nd Congress of Asia Pacific Association of Critical Care Medicine/ 4Th Conference of Nepalese Society of Critical Care Medicine was held in Katmandu, Nepal. The three day conference features speakers from around the world.

At the opening ceremony of the congress, **Dr. Simon Abrahamson** received a felicitation to honor, thank and appreciate his contribution training the Nepali Fellows starting in 2012. The felicitation was bestowed by the Minister for Health and Population for Nepal.

In addition, Dr. Abrahamson participated as faculty in the Asia Pacific Conference, in the "Meet the Expert" series.

At the congress, the first ever volume of the "Journal of the Nepalese Society of Critical Medicine" was unveiled (JNSCCM January 2023, Volume 1, Issue 1, ISSN 2976-1220 (Online). Dr. Gentle Shrestha, a SMH fellow from 2012 -2013, is an executive editor of the journal.

The Nepal Society of CCM was formed in 2010.
The strides made in CCM in Nepal since 2010 are most impressive.

Picture: Professor Abrahamson / Professor Atul Kulkarni, President Indian Society for CCM, Secretary General, Asia Pacific Association of CCM/ The Honorable Mr. Bhawani Prasad Khapung, Minister for Health and Population, Nepal / Dr. Sanjay Lakhey, President Nepal Society for CCM



Picture: Professor Abrahamson with fellows

Education Update for Adult CCM

The last 6 months have been both a busy and productive time for our education program. Our incoming Royal College trainees started off the year with the National Acute Critical Event Simulation (N-ACES) course in Winnipeg. This was followed by a summer of enhanced academic sessions and boot camps. Academic Half Day has continued on with a mix of didactic, hands on, and simulation sessions. Some of the highlights include the Mechanical Ventilation sessions held on Nov.1, and Dec. 13 as well as the ever popular ENLS series which was run as a full day session on Oct. 28.

I would like to thank all those who participated in our CaRMS matching process including applicants, file reviewers, interviewers, and of course Simon Chung for making sure everything went off without a hitch.

We look forward to welcoming our incoming trainees for July 2023:

Dr. Nigel Champion (IM)
Dr. David Granton (IM)
Dr. Laura Spatafora (IM)
Dr. Sophia Wen (IM)

Dr. Nikita-Kiran Singh (IM)
Dr. Andrew Kochan (Cardiology)
Dr. Sonya Vukovic (IM)

The last academic half day of the year was reserved for Festive Fun Rounds. We were able to deliver the event in a hybrid format with attendees both in person and online. The session was organized by our Chief Resident Dr. Varuna Parakash, our Chief Fellow Dr. Andres Guzman, and our Curriculum Lead Dr. Dominique Piquette. It was an afternoon of fun and food. Some of the highlights included a spirited game of medical Jeopardy and a hilarious video entitled “Rumor Has It”. Medical Jeopardy ended up in an unprecedented “all-way” tie. Consequently, we decided in lieu of providing gift cards to the winners-which would have been everyone-we made a donation to the Daily Bread Foodbank to help support those experiencing food insecurity.



Pictures: Festive Fun Rounds

David Hall, MD
*Assistant Professor, Department of Medicine
Program Director for Adult Critical Care Medicine
University of Toronto*

Critical Care Bulletin

Yet another academic year has flown by, and what a year it has been! We started our Chief term at a time when flashing your vaccination status to get the best restaurant table was in vogue, when grocery store line-ups were never ending, and when camera-off Zoom calls were essential so your kids could do gym class in front of you during virtual school.

As we all felt the brunt of exclusively virtual social interactions, we focused our term around unity and trying to keep the team together. Academic half-day drinks were an unsurprisingly big hit once back up and running, as were the great wellness winter events. It was refreshing to rediscover this “social glue” that made us feel like a team again.

Even though the pandemic is still ongoing, the world has definitely opened back up, and we are delighted to see the top 3 inches of everyone’s face in the flesh. We are slowly settling into what appears to be our new world, and it feels good!

We would like to thank all the trainees for giving us a chance to represent them during this past year and hope we were able to get things moving for an amazing fellowship experience. Congratulations to our Royal College Fellows who all passed their exam with flying colours! And good luck to Varuna and Andres who have taken over as Chiefs - this next year is bound to be a showstopper!



Pictures: Royal College Fellows



Cameron Landry and Stephan von Düring
Resident & Clinical Fellow, Critical Care Medicine
Interdepartmental Division of Critical Care, University of Toronto

Critical Care Hockey

On January 19, intensivists took to the ice! Hosted by Sunnybrook, 12 fellows and staff from ICUs across the GTA came together to play hockey. In goal were Vlad Joloud, a physiotherapist, and Joseph Edell, a paramedic, with Matthew Fowler as referee. A great time was had by all, as people reconnected with old friends and met new colleagues while skating hard.



After an amazing turnout and a hard-fought scrimmage, there was a clamour for more hockey. So the next event will be Thurs, April 27, 10:10-11:10 p.m. at the Larry Grossman Forest Hill Arena. All levels of hockey ability welcome.

Please email Hannah Wunsch (hannah.wunsch@sunnybrook.ca) if you'd like to play. Trainees as well as faculty are welcome! Some equipment is available if you are in Toronto without your own.



Mechanical Ventilation Course 2023

Presented by: The Interdepartmental Division of Critical Care Medicine, University of Toronto

All in-person attendees will have access to the hands-on workshops, taking place on day two in the afternoon.

DAY 1: Wednesday, April 19, 2023

Physiological Principles

DAY 2: Thursday, April 20, 2023

**Modes of Ventilation and Liberation from Ventilation,
Hands-On Workshops**

DAY 3: Friday, April 21, 2023

Diseases, Syndromes and Clinical Recommendations



Registration Rates:

IN-PERSON

Physicians - **\$1200 CAD**

RTs/Allied Health/Other - **\$800 CAD**

Resident/Fellow - **\$500 CAD**

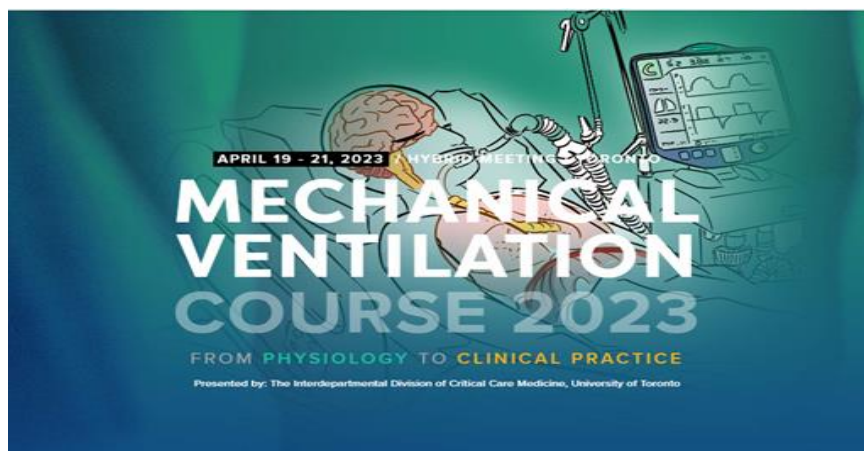
VIRTUAL

Physicians - **\$800 CAD**

RTs/Allied Health/Other - **\$500 CAD**

Resident/Fellow - **\$400 CAD**

Please email registration@criticalcarecanada.com for more information.



The World Interactive Network Focused On Critical UltraSound (WINFOCUS)

On December 3rd, 2022, the IDCCM Critical Care Ultrasound Group joined forces with ultrasound trainers from 34 different countries around the world to participate in an extraordinary event organized by The World Interactive Network Focused On Critical UltraSound (WINFOCUS – winfocus.org). The event was a 24-hour marathon of point-of-care ultrasound (PoCUS) workshops that saw more than 1,700 participants. This impressive effort was made possible by the dedication and passion of hundreds of ultrasound educators worldwide who recognize the critical role of ultrasound in clinical practice. Many of the workshops were provided at no cost, making it possible to reach resource-limited areas of the planet where access to this technology can be challenging. Some of the countries that benefitted from these free workshops include several African countries, Afghanistan, and Ukraine. In recognition of this remarkable event, WINFOCUS is now petitioning the United Nations to establish December 3rd as the World PoCUS Day.

In Toronto, the course was held at the Li Ka Shing Knowledge Institute and saw the participation of eight instructors and 15 learners from across the Greater Toronto Area. The instructors, Alberto Goffi, Pablo Perez D’Empaire, Fabio Papa, Diana Morales Castro, Jacobo Moreno Garijo, Laura Giron Arango, Laura Dragoi, and Emanuele Pivetta, provided valuable insights and hands-on training to the participants.

On December 4th, the WINFOCUS World Congress 2022 (WF WC 2022) took place online, and more than 5,247 attendees from 127 countries participated. The congress featured presentations in 11 languages provided by speakers from 67 different countries.

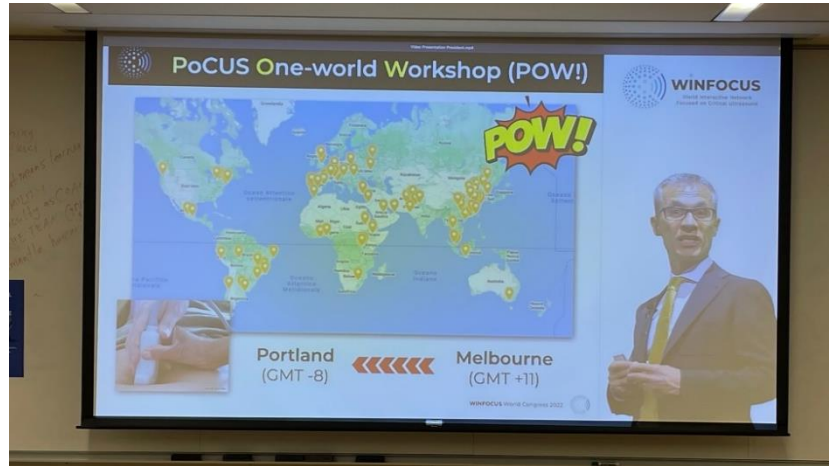
The two days of teaching and discussion around PoCUS highlighted the critical role of ultrasound at the bedside. WINFOCUS has been an ambassador of the PoCUS message throughout the years, promoting its use through a universally accessible forum for anyone who wants to teach or learn about ultrasound. This includes those with limited budgets and those in remote and resource-limited settings.

Dr. Noble, in her keynote address, emphasized that point-of-care ultrasound has changed the practice of medicine and entered the mainstream. However, its use is still limited to a relatively small minority of practitioners, even in a resource-rich environment as Toronto. Therefore, we look forward to seeing more intensivists embracing this new disruptive technology, enabling patients to receive prompt and accurate diagnoses, ultimately leading to better outcomes.



Alberto Goffi, WINFOCUS Course Director
Gabriele Via, WINFOCUS President

Some pictures from the event



SickKids Paediatric Critical Care Medicine (PCCM) Training Program

(Part of this section was already presented in the Annual Report, Apologies for repetition from Editors)

Dr. Briseida Mema, MD, MHPE, RCPSC
Program Director, Paediatric Critical Care Medicine



PCCM EDUCATION PROGRAM 2021-2022

The Paediatric Critical Care Medicine (PCCM) Program aims to develop clinically excellent physicians in the field of paediatric critical care. Each year, we accept trainees who are excellent clinicians, learners, and teammates. This year's program saw 26 trainees from all over the world.

We recognize the numerous challenges our staff physicians and trainees faced throughout the 2021-2022 academic year. Despite the ongoing pandemic, we saw a strong sense of collegiality and comradery amongst our team, as they worked together to make a positive impact in paediatric critical care medicine.



Some of our 2021 incoming trainees: Drs. Constanza Velasco, Tanya Haj-Hassan, John Glazebrook, Sabine Nabecker, David Zorko, Luca Marchetto, and Fahad Abu Azzah

CURRICULA

TACTICS

For the second year in a row, TACTICS (Training Assessment of Clinicians in Teams in Intensive Care through Simulation) took place online. Over 30 PCCM trainee participants virtually joined our simulation assessment day led by various education faculty across Canada. We ran eight virtual sessions:

1. ECMO
2. CRRT
3. Transport Call
4. Mechanical Ventilation in Asthma
5. Communication
6. Neuro Critical Care
7. Pulmonary Hemorrhage
8. Cardiac

Medical Humanities

Faculty and trainees had another wonderfully full year of collaboration through the arts.

The group was the recipient of the Medical Humanities Education Grant for 3 years in a row with their project “Our own history, reviewing the past, understanding the present and shaping the future”. Faculty and trainees met and co-constructed art, meaning on experiences and a sense of connection and community.

Ontario Wide Academic Half Day Series

Paediatric Neuro Critical Care

This year, we ran two Ontario Wide Academic Half Days in collaboration with London Health Sciences Centre, CHEO, and McMaster Children’s Hospital. The theme for November was Neurocritical Care, with sessions by Drs. Rishi Ganesan, Matt Kirschen, and Nicole McKinnon. Participants learned about the principles of cerebral physiology, neuromonitoring in the PICU, and management of paediatric TBI.

Paediatric Mechanical Ventilation

On March 15th we held our second Ontario Wide AHD on Paediatric Mechanical Ventilation. What started out as a session for Ontario PCCM programs, turned into a worldwide event! We had 129 participants join virtually from 26 different countries, including:

| | | | | |
|-----------|---------|--------|--------------|----------------|
| Algeria | Denmark | Kenya | Peru | Sri Lanka |
| Australia | Germany | Kuwait | Qatar | Sudan |
| Belgium | India | Mexico | Saudi Arabia | Switzerland |
| Canada | Italy | Oman | Singapore | United Kingdom |
| Colombia | Japan | Panama | South Africa | United States |

Sessions included lung and diaphragm protective ventilation, prone positioning, and mechanical ventilation in cardiac patients. Thank you to our moderator, Dr. Desmond Bohn, and our speakers, Drs. Robinder Khemani, Bhushan Katira, and Luciana Rodriguez-Guerineau for facilitating such a large event.

Wellness

In January, Dr. Seth Gray took over the role of Wellness Director for the PCCM Program. Dr. Gray is very committed to wellness and has a strong rapport with our trainees, so we are excited to see what he has in store for the program. We would like to thank Dr. Roxanne Kirsch for everything she has done as Wellness Director for the past three years. We are lucky to have faculty who are so dedicated to trainee wellness!

Both Dr. Kirsch and Dr. Gray led various wellness debrief sessions throughout the year. In addition to these sessions, fellows participate in regular town halls, facilitated by our co-Chief Fellows. Here, they are given a chance to speak about any questions or concerns they may have with the program.

We also ensured there were many opportunities for social activities. However, as the pandemic continued on throughout the 2021-2022 year, in-person events were put on hold during the winter and spring months. During this time, we had to revert back to virtual activities, which included staff vs. fellow jeopardy, a Halloween costume contest, an ugly Christmas sweater contest, and a trivia night in February.

By June, we were lucky enough to have some in-person events once social gatherings were permitted. We had a small barbeque at Ashbridges Bay to celebrate the end of a wonderful year.

EVENTS

Resident & Fellow Appreciation Week

This year's focus of Resident and Fellow Appreciation Week was "celebrating community and the benefits of solitude during a pandemic". The week started off with a presentation on the history of the CCM fellowship program, taking us all the way back to when we only had 10 trainees! Talking about life pre-pandemic showed us that although there are obvious differences between then and now (masks, distancing), there are still so many similarities in terms of community within the program.

Scholarly Showcase

We held our annual Scholarly Showcase in May to highlight the research and scholarly activity that our trainees have worked on over this past academic year. A huge thank you to our organizers Dr. Briseida Mema, Program Director, PCCM and Dr. Anne-Marie Guerguerian, Research Director, PCCM, as well as our showcase co-chairs Dr. Camilla Halgren, 2021-2022 Chief Resident and Dr. Intikhab Zafurallah, Paediatric Intensivist and SickKids PCCM alumni.

Presentations were judged by program faculty, Dr. Anne-Marie Guerguerian, Dr. Alejandro Floh, and Dr. Melany Gaetani, as well as interprofessional Critical Care Medicine team members, Winnie Seto, and Karen Dryden-Palmer.

Showcase Award Winners

The Excellence Award – Dr. Olugbenga Akinkugbe

"Vascular complications following button battery ingestion: a systematic review."

The Innovation Award – Dr. Catherine Proulx

"Exploring and supporting the process of professional identity formation of critical care"

The Most Promising Scholarly Project Award – Dr. Tanya Haj-Hassan

"Global Resource Needs in Paediatric Emergency and Critical Care: An International Survey"

AWARDS

Resident & Fellow Awards

The John Edmonds Award – Dr. Colm Breatnach & Dr. Tanya Haj-Hassan

The John Laffey Award – Dr. Catherine Proulx

The Simon Abrahamson Award – Dr. Colm Breatnach

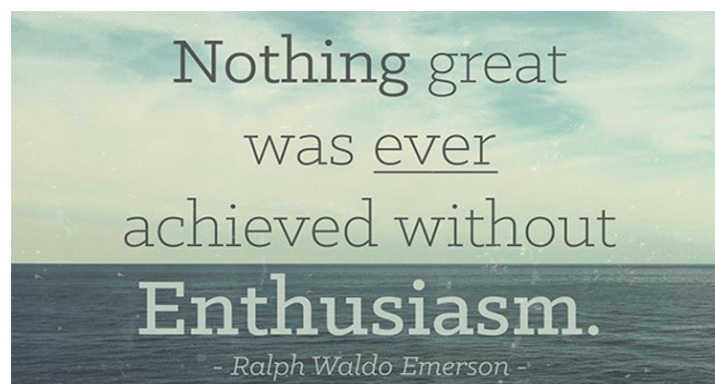
Art Slutsky 1st Place Overall Best Abstract – Dr. David Zorko

Faculty Awards

Pediatric Critical Care Staff Teaching Award – Dr. Christina Maratta

RESIDENT & FELLOW PUBLICATIONS

1. Barcelo AL, Buckley L, Anderson C, Aravind P, Kay Min KS, Mema B. [Apologia pro vita Sua](#). Academic medicine: journal of the Association of American Medical Colleges. 2022;97(1):76. (Jan 1 2022)
2. Bosch A, Watad S, Willmott S, McKinnon NK, Malcolmson C, Kirby M. [Identifying and Treating Severe Bone Marrow Necrosis and Fat Embolism Syndrome in Pediatric Patients With Sickle Cell Disease: A Case Report](#). Journal of Pediatrics Hematology/Oncology. 2022. (Jan 26 2022)
3. Gaetani M, Min KS, Proulx C, Mema B. [Reflection, refraction, resilience: the transformative potential of art](#). Canadian Journal of Anaesthesia. 2022;69(5):568-571. (May 2022)
4. Glazebrook J, Annich G. The March of the Normoxics: [Hyperoxemia and Hemolysis During Cardiopulmonary Bypass](#). Pediatric Critical. 2022;23(2):146-148. (Feb 1 2022)
5. Kay Min KS, Proulx C, Masy V, Mema B. [HERE, GOING, GONE, AND BACK](#). Journal of Palliative Medicine. 2022;25(1):165-166. (Jan 1 2022)
6. Kazzaz YM, Alharbi M, Noël KC, Quach C, Willson DF, Gilfoyle E, McNally JD, O'Donnell S, Papenburg J, Lacroix J, Fontela PS. [Evaluation of antibiotic treatment decisions in pediatric intensive care units in Saudi Arabia: A national survey](#). J Infect Public Health. 2021;14(9):1254-62. (Sept 1 2021)
7. Pereira M, Akinkugbe O, Buckley L, Gilfoyle E, Ibrahim S, McCradden M, Somerton S, Dryden-Palmer, K. Up to the Challenge: Adapting Pediatric Intensive Care during a Global Pandemic. Front Pediatr. 2022. *In Press*.
8. Proulx C, Floh A, Jeewa A, Pulcine E, Muthusami P, Brandao LR, Honjo O, Vargas C, Maurich A, Mazwi M. [Successful Pediatric Mechanical Thrombectomy for HeartMate 3-Related Intracranial Thromboembolism](#). World Journal for Pediatric & Congenital Heart Surgery. 2022;13(2):242-244. (March 2022)
9. Proulx C, Mema B, Helmers A. [Vulnerability and virtue](#). Cmaj. 2021;193(32):E1257-e8. (Aug 16 2021)
10. Min KK, Proulx C, Masy V, Mema B. [HERE, GOING, GONE, AND BACK](#). J Palliat Med. 2022 Jan;25(1):165-166.
11. Shioji N, Aoyama K, Englesakis M, Annich G, Maynes JT. [Multisystem inflammatory syndrome in children during the coronavirus disease pandemic of 2019: a review of clinical features and acute phase management](#). J Anesth. 2021;35(4):563-70 (Aug 1 2021)
12. Gaetani M, Min KS, Proulx C, Mema B. [Reflection, refraction, resilience: the transformative potential of art](#). Can J Anaesth. 2022 May;69(5):568-571.
13. Proulx C, Min K, Mema B. [Being and becoming a critical care clinician: role of narrative](#). Ped Crit Care Med. Accepted for publication.
14. Proulx C, Floh A, Jeewa A, Pulcine E, Muthusami P, Brandão LR, Honjo O, Vargas C, Maurich A, Mazwi M. [Successful Pediatric Mechanical Thrombectomy for HeartMate 3-Related Intracranial Thromboembolism](#). World J Pediatr Congenit Heart Surg. 2022 Mar;13(2):242-244.
15. Trbovich PL, Tomasi JN, Kolodzey L, Pinkney SJ, Guerguerian AM, Hubbert J, Kirsch R, Laussen PC. [Human Factors Analysis of Latent Safety Threats in a Pediatric Critical Care Unit](#). Pediatric Critical Care Medicine. 2022;23(3):151-159. (Mar 1 2022)



H. Barrie Fairley Professorship Update



It's my pleasure to provide an update on the H. Barrie Fairley Professorship for 2022-2023. This Professorship exists out of the generosity of Dr. Barrie Fairley. Barrie joined the Toronto General Hospital Anesthesia Department from London, England in 1955. He was subsequently professor and vice-chair at the University of California in San Francisco, and then chair of the department at Stanford University. He was the first director of the Toronto General Hospital Respiratory (Care) Unit in 1958. He initiated clinical blood gas measurement, the hospital's code blue team, the region's first critical care transports, and hyperbaric medicine. In 2019, Dr. Fairley endowed the H. Barrie Fairley Professorship - the first within University of Toronto Interdepartmental Division of Critical Care Medicine - in collaboration with the University Health Network and the Toronto General and Toronto Western Hospital Foundation.

As the inaugural Professorship holder, we have been able to establish a biannual competition for unrestricted operating grants to three early career researchers in the University Of Toronto Interdepartmental Division Of Critical Care Medicine, designated as H. Barrie Fairley Scholars. The first Fairley Scholars for 2022 and 2023 are Drs. Laveena Munshi, Victoria McCredie and Lorenzo Del Sorbo.

Stay tuned for the next Fairley Scholars competition in the **Fall of 2023**.

H. Barrie Fairley Scholars 2022-2023

Dr. Laveena Munshi

Laveena is an Assistant Professor and Critical Care Physician at Sinai Health System in the Interdepartmental Division of Critical Care Medicine at the University of Toronto. She has research interests in critical care of the



immunocompromised and oncologic patient populations with a focus on acute respiratory failure, the impact that a cancer diagnosis has on critical care outcomes, and the impact of critical illness on future oncology care and outcomes. Dr. Munshi's Fairley Scholar work focuses on *Evaluating Subphenotypes in Patients with Cancer and Acute Respiratory Failure (ARF)*. She will conduct a prospective, multicenter, observational cohort study enrolling adult patients admitted to an ICU with acute respiratory failure and a diagnosis of cancer in order to: (1) identify phenotypes within patients with cancer and ARF who are admitted to the ICU, using demographic, clinical, respiratory, and biomarker characteristics; (2) across the cohort and within each identified phenotype, to describe ARF outcomes including mortality (28-day, hospital, 6-month) and resumption of cancer-directed care in survivors within 6 months following ICU discharge; and, (3) to evaluate whether there is a differential response to initial respiratory management across the different phenotypes (e.g., non-invasive oxygen strategies/intubation).

Dr. Victoria McCredie



Victoria's research focuses on acquiring and analyzing high-frequency physiology data to improve our understanding of secondary brain injury mechanisms, and facilitating the characterization of neurophysiologic biomarkers of poor outcomes in acute brain injury. As an Adjunct Professor at the University of Waterloo, she collaborates with the System Design Engineering Department to explore how the integration of highly granular data from multiple neuromonitoring devices can be improved through interface design to aid management at the bedside. Victoria's project, *Exploring Electroencephalographic Dynamic Biomarkers of Secondary Brain Injury after Subarachnoid Hemorrhage*, uses a prospective cohort study to recruit 30 patients with Subarachnoid Hemorrhage admitted to Neuro-ICU over two years. Patients needing the placement of an external ventricular drain due to the severity of the SAH will have two additional brain monitors: an EEG monitor for seizures, and a brain tissue oxygen monitor, to identify periods of metabolic crisis. The primary outcome measure will be the presence of regional brain tissue hypoxia during abnormal electrophysiologic activity.

Dr. Lorenzo Del Sorbo



Lorenzo is an intensive care attending at Toronto General Hospital, and an Assistant Professor at the University of Toronto since 2016. He trained in Internal Medicine at the University of Torino (1997-2003), and in adult Critical Care Medicine at the University of Toronto (2004-2007). He worked as an Assistant Professor of Intensive Care Medicine at the University of Torino, Italy, from 2007 to 2017. Lorenzo's main academic interests focus on the application of innovative strategies to prevent the injury induced by invasive mechanical ventilation. Lorenzo's Fairley Scholar work is on the *identification of mechanical ventilation strategies to reduce lung injury during extracorporeal membrane oxygenation for ARDS*. Using a preclinical large animal model of severe ARDS and VV-ECMO to maintain adequate gas exchange, his team will investigate whether lung injury is reduced by (1) increasing alveolar recruitment by delivering high PEEP in comparison to atelectatic lungs; (2) reducing tidal overdistension by reducing driving pressure to zero; and, (3) a mechanical ventilation strategy employing the best strategy from the investigations in Aim 1-2 in comparison to the current mechanical ventilation practice.

Robert Fowler, MD
Professor, Department of Medicine, University of Toronto

IDCCM Research Update

CRIP IS BACK!

After a pandemic hiatus, we have restarted the tradition of Clinical Research in Progress (CRIP). While not in person (and therefore no pizza and sushi), we have had two excellent zoom meetings this fall.

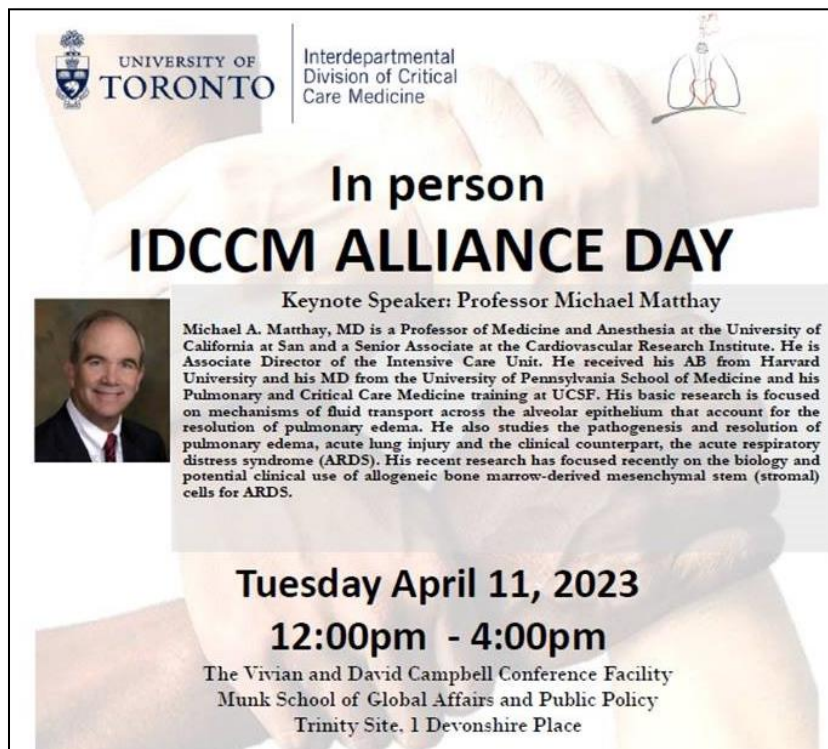
At the first, on October 18, Michelle Li presented “The Association Of Perioperative Hemoglobin With Adverse Outcomes In Patients Undergoing Cardiac Surgery: A Retrospective Study,” (Justyna Bartoszko supervisor) and Luciana Rodriguez Guerineau discussed her work on “Impact of chest wall mechanics on lung and cardiovascular function during delayed sternal closure,” (Laurent Brochard, supervisor)

The second, on December 13, was a new experience. We had 5 critical care residents/fellows give shorter presentations, sharing their ideas for academic projects for feedback. Thanks to Ryan Adesky, Jesse May, Rochelle Melvin, Jacob Michie, and Shahmir Sohail for a great discussion.

In winter 2023 we have new calls for IDCCM Trainee and Scholar awards. Please see the IDCCM website for details.

*Hannah Wunsch
Associate Director of Research- IDCCM
University of Toronto*

IDCCM Upcoming Events




The poster features a background image of hands clasped together. In the top left corner is the University of Toronto logo. In the top right corner is the Interdepartmental Division of Critical Care Medicine logo, which includes a diagram of the human respiratory system. The main text reads "In person IDCCM ALLIANCE DAY". Below this, it identifies the keynote speaker as Professor Michael Matthay, accompanied by a small portrait photo. A detailed bio of Professor Matthay follows, describing his roles at the University of California at San Francisco and Harvard University, and his research focus on pulmonary edema and ARDS. The event date and time are listed as "Tuesday April 11, 2023, 12:00pm - 4:00pm". The location is specified as "The Vivian and David Campbell Conference Facility, Munk School of Global Affairs and Public Policy, Trinity Site, 1 Devonshire Place".

UNIVERSITY OF TORONTO

Interdepartmental Division of Critical Care Medicine

In person
IDCCM ALLIANCE DAY

Keynote Speaker: Professor Michael Matthay

 Michael A. Matthay, MD is a Professor of Medicine and Anesthesia at the University of California at San and a Senior Associate at the Cardiovascular Research Institute. He is Associate Director of the Intensive Care Unit. He received his AB from Harvard University and his MD from the University of Pennsylvania School of Medicine and his Pulmonary and Critical Care Medicine training at UCSF. His basic research is focused on mechanisms of fluid transport across the alveolar epithelium that account for the resolution of pulmonary edema. He also studies the pathogenesis and resolution of pulmonary edema, acute lung injury and the clinical counterpart, the acute respiratory distress syndrome (ARDS). His recent research has focused recently on the biology and potential clinical use of allogeneic bone marrow-derived mesenchymal stem (stromal) cells for ARDS.

Tuesday April 11, 2023
12:00pm - 4:00pm

The Vivian and David Campbell Conference Facility
Munk School of Global Affairs and Public Policy
Trinity Site, 1 Devonshire Place



UNIVERSITY OF
TORONTO

Interdepartmental
Division of Critical
Care Medicine



ART SLUTSKY RESEARCH DAY

Tuesday June 20, 2023
8:00 AM-5:00 PM

The Vivian and David Campbell Conference Facility,
Munk School of Global Affairs, Trinity Site, 1 Devonshire Place



Visting Professor: Dr. Adrienne Randolph

Dr. Adrienne Randolph is a pediatric critical care specialist at Boston Children's Hospital and Professor of Anaesthesia and Pediatrics at Harvard Medical School. She founded the Pediatric Acute Lung Injury and Sepsis Investigator's (PALISI) Network in 2002 that now has over 80 pediatric sites internationally. In 2008, she developed the Pediatric Intensive Care Influenza (PICFLU) Network, which she continues to direct across 32 U.S. pediatric hospitals with ongoing funding from NIAID. In response to the SARS-CoV-2 pandemic in 2020, PICFLU expanded into the Overcoming COVID-19 Network across 65 U.S. sites with funding from the U.S. Centers for Disease Control and Prevention. Dr. Randolph has over 250 publications. Her areas of expertise are pediatric sepsis, acute lung injury, and severe respiratory infections in children. In 2023, she became Chair of the International Sepsis Forum.

Art Slutsky Research Day: June 20, 2023

IDCCM End of Year Celebration

IDCCM FACULTY, TRAINEES AND ALUMNI ARE WELCOME!!

MONDAY JUNE 19, 2023
AT 6:00PM

Mill St. Brew Pub – The Beer Hall
21 Tank House Lane, Distillery District

Sponsored by:
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RSVP to: [Fahima Nasreen](#)

UNIVERSITY OF TORONTO | Interdepartmental Division of Critical Care Medicine

Year End Celebration: June 19, 2023

High-Impact IDCCM PUBLICATIONS

(Jul to Dec 2022)

[Defibrillation Strategies for Refractory Ventricular Fibrillation.](#)

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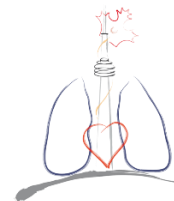
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Thank you everyone and have a happy 2023!