Program At A Glance

DAY 1 Monday, December 6, 2021 all times are in EST

10:00-10:30 EST MORNING ROUNDS

Fellow's Session: Management of Right Ventricular Failure in Mechanically Ventilated Patients	COVID-19 Pneumonia: Is this ARDS or Not?	Mechanical Ventilation Symposium: Monitoring Lung Recruitment
Moderator: G Douflé	**Moderator:** C Calfee	**Moderator:** L Del Sorbo
Speaker: J Granton	**Speaker:** L Gattinoni	**Speaker:** L Chen
Followed by live Q&A	Followed by live Q&A	Followed by live Q&A

10:30-10:45 EST **TRANSITION BREAK**

10:45-11:00 EST CONFERENCE WELCOME

Speaker: N Ferguson

11:00-11:50 EST KEYNOTE ADDRESS

Moderators: L Munshi, E Fan

Speaker: S Fink	Triage, Ethics and Allocation: COVID and Beyond

11:50-12:00 EST **TRANSITION BREAK**

12:00-1:20 EST SCIENTIFIC TRACK

Pandemic Reflections: Health Systems Organization and Response	ARDS	CCIDN Session: SEPSIS	Education and Critical Care
Moderators: N Ferguson, J Granton	**Moderators:** L Brochard, S Sahetya	**Moderators:** A Kumar, C Dos Santos	**Moderators:** D Piquette, C Parshuram
COVID-19 Public Health Measures and Critical Care Utilization in Alberta *S Bagshaw*	Definition of ARDS - From Berlin to Beyond *M Gong*	Microbes and Host Defense *J Bubeck Wardenburg*	Teaching and Learning Communication Skills for Serious Illness Conversations *A Roze des Ordons*
Lessons Learned from the Ontario COVID-19 Critical Care Command Center *A Baker*	Modulating Neutrophils in ARDS *C Summers*	Immunothrombosis: The Key to Sepsis Pathogenesis and Diagnosis *A Fox-Robichaud*	The Role of Humanities in Critical Care Education *B Mema*
COVID-19 Response and Critical Care Utilization in Quebec *F Lamontagne*	Mechanical Power in ARDS *L Gattinoni*	Goodbye SIRS? Immunity and the Pathogenesis of Organ Dysfunction *M Shankar-Hari*	Highly Functional Critical Care Teams Academy *K White*
Repurposing Pediatric ICUs to Adult ICUs During the COVID-19 Pandemic *E Gilfoyle*	Outcomes after Prolonged Mechanical Ventilation *T Hough*	Cardiovascular Complications of Sepsis *A Walkey*	Implementation of Collaborative Competencies in an ICU Environment *J Goldman*
Academic vs. Community ICU COVID-19 Experience *A Binnie*	Mesenchymal Stem Cells in ARDS *D McAuley*	The Neutrophil in Critical Illness - Friend or Foe? *J Marshall*	Approaches to Training for Code Blue Events *J Foster*
The Pandemic and Pediatric Critical Care *S Murthy*	Precision PEEP: The Art of Individualizing PEEP *S Sahetya*	New Aspects of Influenza Treatment *J Beigel*	
Followed by live Q&A	Followed by live Q&A	Followed by live Q&A	Followed by live Q&A

1:20-1:30 EST **TRANSITION BREAK**

1:30-2:15 EST KEYNOTE ADDRESS: PANEL DISCUSSION

Moderators: A Slutsky, K Rowan

Panelists: A Brown, T Hough, C Seymour, C Summers, R Fowler, S Murthy	Brian P Kavanagh Controversies in Critical Care Symposium Information Synthesis During the Next Pandemic: From Data to Action

2:15-2:30 EST **TRANSITION BREAK**

DAY 1 Monday, December 6, 2021 continued — all times are in EST

2:30-3:50 EST SCIENTIFIC TRACK

Pandemic Reflections: Management	CCIDN Session: SEPSIS	Equity, Diversity and Inclusion in Critical Care Medicine	Rehabilitation and Frailty in the ICU
Moderators: S Bagshaw, M Gong	**Moderators:** S Murthy, A Leligdowicz	**Moderators:** S Dev, K Kyeremanteng	**Moderators:** M Herridge, G Boyd
Top Abstract Oral Presentation: A Retrospective Review of Critically Ill Pregnant Patients with COVID-19: A Single Centre Experience *M Al Mandhari*	Sepsis Subclasses and Phenotypes *C Seymour*	Top Abstract Oral Presentation: COVID-19 Manuscripts Submitted to the Canadian Journal of Anesthesia: An Analysis by Author Gender and Person of Color Status *K Heybati*	Top Abstract Oral Presentation: CANCOV - Canadian Prospective Cohort of 1-Year Outcomes in Critically Ill Patients with COVID-19 and Their Family Caregivers - Preliminary Report *L Dragoi*
Host Genetics and Outcomes from COVID-19 *K Baillie*	Time, Source Control and Antimicrobials in Septic Shock *A Kumar*	Indigenous Health and Critical Care Medicine *C Tait*	Falls in the ICU *T Stelfox*
COVID-Epidemiology *K Rowan*	Stem Cells and Sepsis *C Dos Santos*	Potential Biases in Crisis Standards of Care *H Gershengorn*	Updates on Rehabilitation in the ICU *D Needham*
Evidence-Based Therapies During COVID-19 *B Rochwerg*	Cardiovascular Outcomes Following Sepsis *F Angriman*	Gender Equity in Critical Care Medicine *G Mehta*	Multi-Disciplinary Teamwork in the ICU - Lessons Learned from the Pandemic *M Kho*
Is There a Role for Convalescent Plasma in COVID-19? *A Turgeon*	Vaccine-Mediated Prevention of Severe Bacterial Infection/Sepsis *J Bubeck Wardenburg*	Fairness in the Face of Shortages of Novel COVID Therapeutics *D White*	Early Mobilization During ECMO: Standard of Care? *D Abrams*
ECMO for COVID-Related ARDS: Evolving Outcomes *D Brodie*	What Physicians Should Know About Antimicrobial Dosing in the Critically Ill *S Kanji*	Operationalizing Equity in Healthcare *R Kirsch, K Wiebe*	Implementing Early Rehabilitation in the PICU - Lessons Learned from the PICULiber8 Study *K Choong*
Followed by live Q&A	Followed by live Q&A	Followed by live Q&A	Followed by live Q&A

3:50-4:00 EST **TRANSITION BREAK**

4:00-4:30 EST INTERACTIVE SESSIONS

Fellow's Session: Fireside Chat with Dr. Gattinoni	Helmet NIV: Your Questions Answered	Leadership In Crisis - Meta-Leadership Principles	Mechanical Ventilation Symposium: Rapid Evidence Review - Best Practices Regarding Sedation Management in Ventilated Patients	Around the World in 30 Minutes: Fluid Management in the ICU
Moderator: C Lee	**Moderator:** B Ferreyro	**Moderator:** H Gershengorn	**Moderator:** G Mehta	**Moderator:** B Rochwerg
Speaker: L Gattinoni	**Speaker:** B Patel	**Speaker:** A Healey	**Speakers:** M Sklar	**Speakers:** F Zampieri, X Monnet, S Magder, M Parker
Followed by live Q&A	Followed by live Q&A	Followed by live Q&A	Followed by live Q&A	Followed by live Q&A

4:30-4:45 EST **TRANSITION BREAK**

4:45-5:30 EST KEYNOTE ADDRESS: RCT Moderators: J Granton, C Summers

Speakers: R Zarychanski, E Goligher, P Lawler

H. Barrie Fairley Symposium

Anticoagulation in COVID-19 and the Role of Multi-Platform Trials in Critical Care Research

DAY 2 Tuesday, December 7, 2021 all times are in EST

10:00-10:30 EST MORNING ROUNDS

Fellow's Session: Sepsis and Severity of Illness Scoring in Pregnancy	Comfort Holding in Pediatric Critical Care	Mechanical Ventilation Symposium: Monitoring Respiratory Drive and Effort	Deceased Donation Stream Developing a New, Modernized Pan-Canadian Organ Donation and Transplantation (ODT) Data and Performance Reporting System
Moderator: D Piquette	**Moderator:** A Leligdowicz	**Moderator:** T Piraino	**Moderator:** M Weiss
Speaker: S Lapinsky	**Speaker:** L Lee	**Speaker:** I Telias	**Speaker:** M Nenadovic, N de Guia
Followed by live Q&A	Followed by live Q&A	Followed by live Q&A	Followed by live Q&A

10:30-11:00 EST TRANSITION BREAK

11:00-11:45 EST KEYNOTE ADDRESS Moderators: D Scales, C Calfee

Speaker: J Johnstone
Editorial: M Gong

Probiotics to Prevent Severe Pneumonia and Endotracheal Colonization Trial: PROSPECT Trial

11:50-12:00 EST TRANSITION BREAK

12:00-1:20 EST SCIENTIFIC TRACK

Pandemic Reflections: Psychologic Toll of the Pandemic	Hot Off the Press: Late-Breaking Trials in Critical Care Part 1	CCCS/CCCF: Wellness and Burnout in the ICU	Deceased Donation Stream
Moderators: R Fowler, D Cook	**Moderators:** C Seymour, L Brochard	**Moderators:** A Fox Robichaud, B Paunovic	**Moderator:** S Dhanani
The Impact of COVID-19 Visitation Policies on Critically Ill Patients, Families and Health Care Providers *K Fiest*	Milrinone as Compared to Dobutamine in the Treatment of Cardiogenic Shock (editorial note - P Lawler) *R Mathew*	Impacts of the Pandemic and Organizational Culture on Physician Wellness *K Burns*	Family Perspectives on Improving the Organ Donation Process *A Sarti*
ICU Triage in Canada: Reflections Following a Pandemic *J Downar*	Higher Versus Lower Doses of Dexamethasone in COVID-19 (editorial note - C Summers) *A Perner*	Pre- and Post COVID-19 Survey Evaluation *P Dodek, S Crowe*	Overview of the International Organ Donation and Transplantation Legislative and Policy Forum *M Weiss*
Recovery from Psychosocial Stressors During the COVID-19 Pandemic Across HCW *J Tsang*	Lower or Higher Oxygen Targets for Acute Hypoxemic Respiratory Failure (editorial note - L Munshi) *O L Schjørring*	What is Mindfulness and How Does Reflective Practice Support Team Wellness? *A Frolic*	Donor Intervention Research: • CINERGY Study *F D'Aragon* • SIGNET Study *D Harvey* • Donation Advisor: Future Applications *A Seely*
Family Presence and Restricted Family in the PICU *J Foster*	Hypothermia vs. Normothermia After Out-of-Hospital Cardiac Arrest (editorial note - D Scales) *N Nielsen*	What is the Role of Professional Societies in Supporting Wellness? *S Rinne*	Decompressive Craniectomy and the Neurological Determination of Death *E Cunan, A Manara, A Healey, G Pickett*
Impact of COVID-19 on Non-COVID Critically Ill Patients *F Zampieri*		Moral Distress and Moral Orientation: Why They Are Not the Same *D Piquette*	
Followed by live Q&A	Followed by live Q&A	Followed by live Q&A	Followed by live Q&A

1:20-1:30 EST TRANSITION BREAK

1:30-2:15 EST KEYNOTE ADDRESS - DECEASED DONATION STREAM Moderator: T Gofton

Speaker: M Chassé, J. Shankar
Commentary: A Baker

Michael Ward Symposium

CT Perfusion Index

2:15-2:30 EST TRANSITION BREAK

DAY 2 Tuesday, December 7, 2021 continued

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2:30-3:50 EST SCIENTIFIC TRACK

Liberation and Weaning from Mechanical Ventilation

Moderators: M Sklar, G Mehta

Top Abstract Oral Presentation: Automation of Lung Ultrasound Interpretation via Deep Learning for the Classification of Normal vs. Abnormal Lung Parenchyma: A Multicenter Study *C Dave*

Inspiratory Muscle Training for Patients with Respiratory Failure: Why, When and How? *E Goligher*

Time to Wake Up! Challenges During the Transition from Passive to Assisted Ventilation *I Telias*

What is the Role of Noninvasive Respiratory Support in MV Liberation? *L Brochard*

International Practice Variation in the Discontinuation of Mechanical Ventilation *K Burns*

PICU Liberation *G Guerra*

Followed by live Q&A

Hot Off the Press: Late-Breaking Trials in Critical Care Part 2

Moderators: C Seymour, M Herridge

Effect of Intravenous Fluid Treatment with Balanced Solution vs. 0.9% Saline Solution on Mortality in Critically Ill Patients (editorial note - V McCredie) *F Zampieri*

Protective Ventilation with Venovenous Lung Assist in Respiratory Failure (editorial note - D Abrams) *D McAuley*

CHORAL Study: Chlorhexidine in Mechanically Ventilated Patients (editorial note - C Yarnell) *C Dale*

Recovery Respiratory Support (editorial note - B Patel) *G Perkins*

Followed by live Q&A

Shock and Fluid Management in the ICU

Moderators: B Cuthbertson, G Douflé

Top Abstract Oral Presentation: Barriers to Optimal Extracorporeal Cardiopulmonary Resuscitation in Out-of-Hospital Cardiac Arrest *V Provost*

Frank Rutledge Award Winner
The North Star of ICU Shock Management: The LVOT VTI *R Arntfield*

The Role of Cardiac Output Assessment and Shock *S Magder*

Fluid Responsiveness *X Monnet*

Fluid Resuscitation in Pediatric Septic Shock - The Current State of the Evidence *M Parker*

Vasopressors: Which, When and How? *F Lamontagne*

Followed by live Q&A

Neurocritical Care

Moderators: S Taran, E Wilcox

An Update in Neuroprognostication *G Boyd*

Treatment Advancements After TBI *G Citerio*

Airway Management and Ventilation Liberation for Patients with Brain Injury *V McCredie*

Quantitative EEG in the ICU *R Ganesan*

Does Sodium Really Matter in TBI? *A Turgeon*

Current Treatment Regimens for Status and Refractory Status Epilepticus *N McKinnon*

Followed by live Q&A

3:50-4:00 EST TRANSITION BREAK

4:00-4:30 EST INTERACTIVE SESSION

Fellow's Session: Mechanical Ventilation Symposium Rapid Evidence Review: When is Esophageal Manometry Useful?

Moderator: E Goligher

Speaker: J Dianti

Followed by live Q&A

Research Consent and Co-Enrolment During the Pandemic

Moderator: B Cuthbertson

Speaker: D Cook

Followed by live Q&A

Challenges in ICU Triage During a Pandemic: Canada vs. U.S. Experience

Moderator: R Kirsch

Speakers: J Downar, D White

Followed by live Q&A

Around the World in 30 Minutes: Non-Invasive Oxygen Strategies - What, When and Why?

Moderator: S Lapinsky

Speakers: B Patel, L Brochard, M Tobin

Followed by live Q&A

Deceased Donation Stream Case-Based Discussion of Challenging Cases in Neurological Determination of Death

Moderator: A Healey

Speaker: J Singh

Followed by live Q&A

4:30-4:45 EST TRANSITION BREAK

4:45-5:30 EST KEYNOTE ADDRESS: PANEL DISCUSSION

Moderators: R Fowler, S Dev

Panelists: M Ogilvie, I Bogoch, B Rochwerg, A Fernandes, L Pelley

Medicine and the Media - Information, Influence and Importance

DAY 3 Wednesday, December 8, 2021 all times are in EST

10:00-10:30 EST MORNING ROUNDS

Fellow's Session: Approach to Seizure Management in the ICU	Communication Aids for Mechanically Ventilated Patients	Mechanical Ventilation Symposium: Respiratory Muscle Ultrasound
Moderator: V McCredie	**Moderator:** K Burns	**Moderator:** M Sklar
Speaker: J Singh	**Speaker:** L Rose	**Speaker:** A Schreiber
Followed by live Q&A	Followed by live Q&A	Followed by live Q&A

10:30-11:00 EST **TRANSITION BREAK**

11:00-11:45 EST KEYNOTE ADDRESS: RCT

Moderators: A Walkey, V McCredie

Speaker: W Al-Hazzani **Editorial:** S Sahetya	**AC Bryan Symposium** **Awake Prone Positioning in Patients with COVID-19 (COVI-PRONE Trial)**

11:50-12:00 EST **TRANSITION BREAK**

12:00-1:20 EST SCIENTIFIC TRACK

ICU - Systems/Operations WJ Sibbald Symposium	Recovery from ICU	ARDS	Research in Critical Care Medicine	CIHR-ICRH/CCCS Early Career Forum
Moderators: D Scales, E Gilfoyle	**Moderators:** T Stelfox, D Needham	**Moderators:** K Burns, D McAuley	**Moderators:** B Rochwerg, E Fan	
Top Abstract Oral Presentation: The "CanoPPE" as a Novel Barrier Enclosure for Individual Airborne Isolation - From Prototyping to Clinical Applications *V Masy*	Top Abstract Oral Presentation: Pediatric Functional Outcomes Within 1 Year of Critical Illness - A Systematic Review and Meta-Analysis *J Nicoll*	Lung and Diaphragm Protective Ventilation *N Ferguson*	Academic and Community Hospital Enrollment in Clinical Trials *J Tsang*	Setting Up a Research Program Speakers: *V Lau, N Roumeliotis, D Cook* Moderators *V Lau, N Roumeliotis*
Critical Care Structure and Organizational Changes During the COVID-19 Pandemic *B Cuthbertson*	Long-Term Outcomes of Patients with COVID-19 *M Herridge*	Implementation of Evidence-Based Practices in ARDS *T Hough*	Redefining Critical Illness - A Translational Approach *D Maslove*	Bringing Knowledge Back to Your Home Institution Speakers: *A Leligdowicz* Moderators: *H Ting Wang, G Vazquez Grande*
Intensivist Work Load *H Gershengorn*	Long-Term Outcomes of Patients with Hematologic Malignancies and Critical Illness *L Munshi*	Practical Approach to Identifying ARDS Phenotypes *C Calfee*	How Has COVID-19 Changed Critical Care Research? *J Marshall*	
Integrating Palliative Care in the ICU *K Kyeremanteng*	Sedation and Anti-Psychotic Use After the ICU *L Burry*	Should We Care About Preventing ARDS? *G Rubenfeld*	Engaging Patients and Families in Critical Care Research *K Fiest*	
ICU Design: What Matters and What is Known *C Parshuram, S Verderber*	**IDCCM Scholar Award Winner** Long-Term Outcomes Following Severe Traumatic Injury *B Haas*	Mechanical Power in Mechanical Ventilation *K Parhar*	Infrastructure for Delivering Research in the UK *K Rowan*	
Practice Variation in Critical Care Medicine *A Walkey*	Predicting Cognitive Outcomes After Acute Illness *E Wilcox*		Research Systems from Around the World During the COVID-19 Pandemic: Who Got it Right? *A Slutsky*	
Followed by live Q&A	Followed by live Q&A	Followed by live Q&A	Followed by live Q&A	Followed by live Q&A

1:20-1:30 EST **TRANSITION BREAK**

1:30-2:15 EST KEYNOTE ADDRESS

Moderators: C Dos Santos, B Rowe, R Fowler

Speaker: T Stelfox	**2022 CIHR-ICRH/CCCS Distinguished Lecturer Award in Critical Care Sciences and Oral Abstract Awards**

2:15-2:30 EST **TRANSITION BREAK**

Program At A Glance

DAY 3 Wednesday, December 8, 2021 continued

all times are in EST

2:30-3:50 EST SCIENTIFIC TRACK

Severe ARDS and Extracorporeal Support	Ventilatory Support for Acute Respiratory Failure	Sedation and Delirium	Family Engagement in the ICU	CIHR-ICRH/CCCS Early Career Forum
Moderators: L Del Sorbo, I Telias	**Moderators:** L Munshi, E Goligher	**Moderators:** L Burry, T Stelfox	**Moderators:** O Smith, G Rubenfeld	
ECCO2R for COPD: The Era of Clinical Trials is Arriving *D Brodie*	An Update in Non-Invasive Oxygen Strategies *B Ferreyro*	Delirium in the ICU: Updates on Assessment, Management *D Needham*	Top Abstract Oral Presentation: Sacrifice and Solidarity: Family Experiences of Death and Bereavement During the Pandemic *B Dennis*	Creating Confidence as a Leader Speaker: *M Gautam* Moderators: *M St. Onge, A Mendelson*
ECMO for ARDS - When, In Whom, at What Cost? *E Fan*	Helmet Non-Invasive Ventilation *B Patel*	Losing Sleep Over Delirium: Bidirectional Relationship of Sleep and Delirium in the ICU *E Wilcox*	Shared Decision Making About End of Life Care in the ICU *M Detsky*	Career Planning Speakers: *M Kho, B Rochwerg* Moderators: *J Reid, B Tillmann*
Post-Cardiac Arrest Care in the Context of eCPR *A-M Guerguerian*	When to Initiate Invasive Mechanical Ventilation *C Yarnell*	Humanizing the Treatment of Hyperactive Delirium *P Pandharipande*	Navigating Discordance About Prognosis with Families in the ICU *D White*	
Prone Positioning and Recruitment to Inflation Ratio in Patients with ARDS *L Del Sorbo*	An Update in Ventilator Associated Pneumonia *D Cook*	The Role of Adjunctive Medications in ICU Sedation and Analgesia *G Mehta*	Virtual Visiting Innovations: Lessons Learned from the Pandemic *L Rose*	
Limiting Driving Pressure During Mechanical Ventilation *M Urner*	Oxygen Therapy During Mechanical Ventilation *S Bagshaw*	The Impact of Family Presence on Delirium in the Critically Ill: A Retrospective Cohort Study *K Fiest*	Patient/Family Support During Transition to Long-Term Mechanical Ventilation *C Dale*	
High Frequency Oscillation: Mediators of Harm *N Adhikari*		Antipsychotic Use in Pediatric ICU Delirium *L Lee*	Collaborative Decision Making *C Parshuram*	
Followed by live Q&A	Followed by live Q&A	Followed by live Q&A	Followed by live Q&A	Followed by live Q&A

3:50-4:00 EST TRANSITION BREAK

4:00-4:30 EST INTERACTIVE SESSION

Fellow's Session: Ventilator Asynchronies 101	Is FOCUS-POCUS Really Safe?	A Conversation with Shelly Dev on Equity and Equality in Medicine	Around the World in 30 Minutes: Oxygen Therapy	CIHR-ICRH/CCCS Early Career Forum
Moderator: K Parhar	**Moderator:** S Magder	**Moderator:** G Rubenfeld	**Moderator:** S Bagshaw	**Moderator:** M St. Onge, A Mendelson
Speaker: T Piraino	**Speaker:** G Douflé	**Speaker:** S Dev	**Speakers:** C Calfee, G Citerio, O Schjørring, A Fox-Robichaud	Early Career Networking and Resiliency
Followed by live Q&A	Followed by live Q&A	Followed by live Q&A	Followed by live Q&A	Followed by live Q&A

4:30-5:30 EST CCCS AGM

Online Only; No Live Q&A

YEAR IN REVIEW (30 minutes)

What's New in Mechanical Ventilation? Speaker: M Sklar	**What's New in Pediatric Critical Care ?** Speaker: J Moradi	**What's New in Neurocritical Care?** Speaker: S Taran
What's New in Sedation Management in the ICU? Speaker: S Sharif	**What's New in Targeted Temperature Management in the ICU?** Speaker: S Fernando	**What's New in Airway Management?** Speaker: M Parotto
What's New in Renal Replacement Therapy? Speaker: O Rewa	**What's New in Nutrition in Pediatric Critical Care Medicine?** Speaker: H Mtaweh	**What's New in Sepsis?** Speaker: A Leligdowicz