

17th World Congress on Intensive and Critical Care: Caring Intensively
September 16-19, 2025
Vancouver Convention Centre, Vancouver, BC

Working Draft: July 24, 2025

Overall conference objectives are:

1. Inspire participants to create learning and work environments that holistically support interprofessional teams in caring for our patients, their caregivers, and the health care team.
2. Increase awareness of the differences in how critical care is provided around the world and to foster an understanding of what is needed to provide global equity in the provision of critical care.
3. Support the exchange of knowledge between different professionals for a shared understanding of the current evidence-based care of the critically ill.

Tuesday September 16, 2025 – ICU Infrastructure

7:00-8:00

Registration

Location: Level 1 City Foyer

8:00-9:00

Welcome and Opening Ceremony

Location: West Ballroom AB

9:00-9:45

Keynote Speaker: Deborah Cook

9:45-10:00

Discussion Period

10:00-11:00

Poster Viewing – on your own

Booths 1-10 – Level 1 Burrard and Ocean Foyer

Break – coffee, tea, light snacks available

11:00-12:30

Session 1 – Critical Care Education 1

Location : 212-214

Objectives: At the end of the session, participants will be able to:

- reflect on the development and implementation of Advanced Nurse Critical Care Programme.
- identify possible solutions to emerging challenges in critical care medical education.
- describe pharmacist education and training pathways.

Transition Support for New Graduate Nurses in Critical Care

Brandi Vanderspank-Wright

Advanced Nurse Practice in Critical Care: Northern Ireland's Innovative Educational Journey

Nuala Devlin

Navigating the Future of Medical Education in Critical Care Medicine

Dominique Piquette

Critical Care Education

Amy Dzierba

11:00-12:30

Session 2 – My Roles in the ICU

Location: 118-120

Objectives: At the end of the session, participants will be able to:

- understand Realist Evaluation as a mechanism for developing programme theories to understand the complexity of staffing in ICU.
- describe the roles respiratory therapists play in Canadian critical care units.
- describe the role of the critical care pharmacist in the ICU.

A Study to Evaluate New and Alternative Staffing Models in Intensive Care: a Realist Investigation of Safe Staffing

Natalie Pattison

The Roles of the Respiratory Therapist in Canadian Critical Care

Carolyn McCoy

Role of the Pharmacist

Jeffrey Barletta

Roles of nurse practitioner in ICU

Lauren Sorce

11:00-12:30

Session 3 – Caring Together

Location: 220-222

Objectives: At the end of the session, participants will be able to:

- review the existing evidence on multidisciplinary rounds and quality of care.
- recognise the critical role of power sharing for effective interprofessional teamwork in Intensive Care Units (ICUs).
- define family and ICU care team challenges to integrate family during rounds.
- explain the challenges and negative impacts of restricting family access during critical illness.

Multidisciplinary Rounds in the ICU: Caring Together

Andre Amaral

Power Sharing in the Intensive Care Unit

Andreas Xyrichis

Challenge Integrating Family During Rounds

Michael Goldfarb

Benefit of Integrating Families in ICU

Joanna Hart

11:00-12:30

Session 4 – Caring with Family

Location: 211

Objectives: At the end of the session, participants will be able to:

- identify key considerations for communicating with caregiver and non-caregiver family members involved.
- reflect on the support needs of families in a LMIC critical care setting.

Impact of ICU Admission on Family Member

TBD

What Does it Mean to Ruly Care with the Family?

Prachi Khanna

Family as partner perspective of the HCP

Louise Rose

Let the Voice of the Families be Heard in the LMIC Critical Care Setting

Isabel Coetzee-Prinsloo

11:00-12:30

Innovation Session 1 – Focus on the Patient (CCCTG)

Location: 121-122

Objectives: At the end of the session, participants will be able to:

- identify ways to help Indigenous Communities understand what ICU research involves.

Enrolling Racialized and Cultural Minorities in Trials

Sabira Valiani

Engaging Indigenous Communities in ICU Research

Kusum Menon

Engaging Pediatric Patients in ICU Research

Patricia Fontella

Consent Innovation in ICU Research

Holly Langstaff, Brenda Lucas

12:30-1:45

Lunch – on your own

Exhibit Hall – West Ballroom CD

Daily Wellness – West Ballroom CD

1:45-2:45

Poster Discussion Sessions

Objectives: At the end of the session, participants will be able to:

- discuss various research among the critical care community from around the world.

See schedule on page xx

3:00-4:30

Session 5 – Critical Care Education 2

Location: 212-214

Objectives: At the end of the session, participants will be able to:

- demonstrate skills to create, lead, and engage a high-performing team.

- identify and compare diverse international leadership styles in nursing, with an emphasis on how cultural context influences leadership effectiveness in critical care settings.
- utilize relational mapping to identify challenges in team dynamics across different professions.
- describe the educational nuances of continuing professional development.

Education in Communication
TBD

Leadership on International Nursing Development: Style and Culture
Ali Al Haddad

Strengthening Interprofessional Collaboration by Team-based Leadership Development
Anachal Kapoor

The Value, Meaning and Use Assessment Brings to and for the Physician
CPD/Assessment for Practicing ICU Clinicians
Helen Huffling

3:00-4:30
Session 6 – Caring for the Environment
Location: 118-120

Objectives: At the end of the session, participants will be able to:

- identify the burden of waste in modern critical care practice.
- initiate and/or support the creation of a multidisciplinary ecoteam in your ICU.

Getting to Zero: Critical Care, the Climate Crisis, and our Responsibilities
Srinivas Murthy

Caring for the Environment – Opportunities for Health Professionals
Katie Huffling

Can a PICU Go Green: Concrete Actions and Challenges from the Field
Florence Blondel

3:00-4:30
Session 7 – Healthcare Provider Wellness
Location: 220-222

Objectives: At the end of the session, participants will be able to:

- describe the magnitude of moral distress and burnout in ICU physicians.
- develop resources to assist in supporting ICU learner resiliency.
- assess the role of leadership in fostering a culture of wellness and addressing mental health challenges in critical care settings.

Moral Distress and Burnout in Intensivists--Causes and Consequences
Peter Dodek

ICU Learners' Wellness: A Practical Approach to Trainee Support
Sarah McMullen

Beyond the Pandemic: Elevating Wellness in Critical Care Nursing
Sarah Crowe

3:00-4:30

Session 8 – Building Intensive care unit

Location: 109-110

Objectives: At the end of the session, participants will be able to:

- understand the key components of future ICU design.
- describe ICU bedspace environmental factors impacting on patient experiences and outcomes.
- outline current workforce trends and the specific stressors that make ICU nursing a high-turnover specialty.
- Identify the benefits of having attending intensivists be in house at night and weekends.

An Intensive Care Unit Design of the Future

Anil Chillmuntha

Patient-centred ICU Design to Optimise Recovery

Oystein Tronstad

High Stakes, Higher Standards: Attracting and Keeping ICU Nurses

Kathleen Vollman

Night Time Physician Staffing in the ICU

Jose L. Pascual Lopez

3:00-4:30

Oral Abstract Session 1

Location : 211

Objectives: At the end of the session, participants will be able to:

- discuss critical care research projects from multiprofessionals globally.

Transforming Pediatric Critical Care for Patients in British Columbia: A Journey of Collaboration and Innovation	Anna Weir
Bioelectrical Impedance Analysis Derived Parameters as Prognostic Markers in an Indonesian Tertiary Hospital: A Prospective Cohort Study	Sidharta Kusuma Manggala
A Survey of ICU Staff Perceptions of Serious Illness Communication Skills in Critical Care	Sarah Andersen
A Multi-stakeholder Perspective on End-of-life Care: Experiences of Intensive Care Nurses, Doctors, and Families in Intensive Care Settings	Emmanuel Kwame Korsah
Healthcare Costs After Sepsis: A Systematic Review	Victoria Chechulina
Management and Outcomes of Necrotizing Lung Infections in Patients Undergoing Veno-venous Extracorporeal Membrane Oxygenation	Jernej Berden
Liberation from Mechanical Ventilation using Extubation Advisor Decision Support (LEADS): a Multicentre Feasibility Randomized Controlled Trial	Jill E Allan
Dosing of Cefazolin in Children on CRRT: A Physiologically-Based Pharmacokinetic Approach	Samuel Dubinsky
Through the Lens of Survivors: A Web-Based Group Photovoice Study of Critical Illness Recovery	Kelsey Lynch

3:00-4:30

Innovation Session 2 – Focus on the Network – CCCTG

Location: 121-122

Objectives: At the end of the session, participants will be able to:

- be aware of the benefits of trial networks in clinical research.
- understand the trials group model including the programmatic approach to conducting research.
- describe and discuss current status and next steps in community hospital research.
- discuss the common challenges related to building research capacity in HICs and LMICs.

How Trial Networks Support Clinical Research: CCCTG and Beyond

John Marshall

Kusum Menon

Bram Rochweg

Building Capacity for Research in Community Hospitals in Canada (RICH-Canada)

Jennifer Tsang

Learning to Engage in Health Research: Challenges and Opportunities

Dominique Piquette

4:30-4:45

Break

4:45-5:45

Plenary Session 2 – ICU and Sustainability

Location: West Ballroom A

Objectives: At the end of the session, participants will be able to:

- describe sustainability challenges within the ICU
- explain at least three opportunities to promote sustainability within the ICU

Sustainability in the ICU

Katie Huffling

4:45-5:45

Plenary Session 3 – Society of Critical Care Medicine

Location: West Ballroom B

Moderator: Jose L. Pascual Lopez

Objectives: At the end of the session, participants will be able to:

- identify the challenges of CCM in low resource settings.
- distinguish Critical Care Services between low and high resource settings.
- recognize the importance of early identification.

CCM in Low Resource Settings

Subhash Prasad Acharya

The Sepsis Chain of Survival

Jorge Hidalgo

The Role of SCCM in Global CCM

Lauren Sorce

Wednesday September 17, 2025
7:00-7:30
Registration - Level 1 City Foyer

7:30-8:45
Recap and Plenary 4 – Family Engagement & Rapid Response Systems
Location: West Ballroom A

Objectives: At the end of the session, participants will be able to:

- describe how to develop a Rapid Response Systems (RRS) to optimise the family engagement arm of this operation.
- discuss experiences in developing feedback loops to ensure quality delivery of Martha's rule

Family Engagement and Rapid Response Systems
Jason Gittens, TBD

Recap and Plenary 5 – The Global Impact of Antimicrobial Resistance
Location: West Ballroom B

Objectives: At the end of the session, participants will be able to:

- describe current scenarios of AMR and its specific aspects in resource limited set ups.
- Discuss the role, relevance and customisation of infection control practices in resource limited set ups to handle AMR.
- recognize how the findings from ACIOS demonstrate the urgent need for timely, essential care for critically ill patients.

Impact of AMR and the Use of Infection Control Practices in Low Resource Settings
Sharmili Sinha

Antimicrobial Resistance. Defining Criteria and Targeted Treatment
Jose Alexander

8:45-9:00
Break

9:00-10:30
Session 9 – Recognizing who is at Risk of ICU Admission 1
Location: 212-214

Objectives: At the end of the session, participants will be able to:

- identify the major risk factors for sepsis.
- review contemporary epidemiology of critical illness across oncologic and immunocompromised patients.
- describe the key clinical indicators and risk factors associated with PICU admissions in Australia, drawing upon current national guidelines and evidence-based practices.
- recognize factors of age-related biological decline, which put older patients at particular risk of falling critically ill.

Risk of Sepsis
Luciano Azevedo

Recognizing Who is at Risk of ICU Admission - Oncologic and Immunocompromised Patients
Laveena Munshi

Pediatric Population
Shell Dunphy

Older Patients at Risk of ICU Admission
Gabriele Leonie

9:00-10:30
Session 10 – Frailty
Location: 118-120

Objectives: At the end of the session, participants will be able to:

- identify patients at high-risk for long-term cognitive, mental health, and physical impairments after critical illness.
- describe frailty in the context of critical illness.
- recognize the prevalence of frailty and associated clinical correlates.
- describe possible ways to improve the impact of frailty on critical care outcomes.

Screening for Frailty
Mark Mikkelsen

Long Term Outcomes of Frail ICU Patients
Thomas Rollinson

Cost implications of Frailty in ICU Patients
Sean Bagshaw

What should we do about frailty in ICU patients?
John Muscedere

9:00-10:30
Session 11 – Prehospital and Rapid Response Systems
Location: 220-222

Objectives: At the end of the session, participants will be able to:

- identify the four key components of rapid Response Systems and understand their interactions.
- compare Japan's urban and rural prehospital transport modalities.
- explain the structure of Rapid Response Systems (RRS) implemented in Saudi hospitals.

Creating a Rapid Response System
Geoff Lighthall

Japan's Prehospital Systems: Strengths and Ongoing Challenges
Kenji Kandori

Early Intervention on the Wards: The Saudi Experience in Preventing Clinical Deterioration
Yaseem Arabi

9:00-10:30
Session 12 – Disaster Management
Location: 109-110

Objectives: At the end of the session, participants will be able to:

- discuss the emotional impact of the Humboldt Broncos' hockey team tragedy by testimony from a respiratory therapist that lived this experience.
- define a medical disaster, whether in a civilian or a military context.
- describe key features of triage in disaster management.
- develop a Hazard Vulnerability Analysis for their ICUs to guide effective and efficient disaster preparedness.

Disaster Management
Kelsey Freeman

Military Disaster Medicine and the Intensive Care Unit
Ian Ball

Triage
Dianne Stephens

Sharing key strategies for effective ICU disaster preparedness
Randy Wax

9:00-10:30
Oral Abstract Session 2
Location: 211

Objectives: At the end of the session, participants will be able to:

- discuss critical care research projects from multiprofessionals globally.

Supporting Child Visitors in the Intensive Care	Jessica Jenkins
Can't Beat the Clock: Evaluation of Ten Epigenetic Clocks for the Prediction of Mortality and Length of Stay in Critically Ill ICU Patients.	David Kanter Eivin
Readiness to Treat Hypoxemia in Intensive and Critical Care in Rwandan Public Hospitals	Christine Kayitesi
The Implementation of an Acute Care Nurse Practitioner in a Community Hospital ICU: Impacts, Barriers, and Qualitative Outcomes.	Daniel Soliman
Comparing Single-Patient Room and Multi-Patient Room Intensive Care Units: A Multicenter Cohort Study on Architectural Changes and Clinical Significance in South Korea	Kyoung Won Yoon
Evaluating the Implementation of Patient Flow Centre on ICU Patient Discharges and Outcomes: A Retrospective Study	Xia Jin
Early Mortality in the Pediatric Intensive Care Unit Following Weekend Admissions Compared to Weekdays in a Resource-limited Setting. Report on a Preliminary Sixteen-month Period of a Retrospective Cohort.	Janvier Hitayezu
Association of Cerebral Hemodynamic Markers Measured by Transcranial Doppler (TCD) Ultrasound with Clinical Outcomes in Sepsis and Septic Shock: A Systematic Review.	Leann Blake
Building Capacity in Pediatric Critical Care: An Innovative New Graduate Nurse Residency Program	sandhaya parekh

9:00-10:30
Innovation Session 3 – Focus on Dissemination
Location: 121-122

Objectives: At the end of the session, participants will be able to:

- review current trends and recent developments in academic publishing, with a specific focus on peer review in critical care research.
- identify key features of well written scientific manuscript.
- integrate evidence-based principles into assessing certainty of evidence.
- discuss best approaches regarding return of global research results.

The Changing Landscape of Peer Review and Publishing in Biomedicine
David Maslove

Tips for Reviewing Manuscript for Peer Review Journal
Jonathan Sevransky

Producing Rigorous Guideline
Bram Rochweg

Communication of Results to Participants and their Surrogate Decision Maker: A Case Study of the LOVIT Randomized Controlled Trial
Annabelle Cumyn

10:40-11:40

Poster Discussion Sessions

Objectives: At the end of the session, participants will be able to:

- discuss various research among the critical care community from around the world.

See schedule on page xx

11:40-1:00

Lunch

Exhibits

Wellness

1:00-2:30

Session 13 – Blood Transfusion in Neurocritical Care – Lessons Learned from Recent Trials

Location: 212-214

Objectives: At the end of the session, participants will be able to:

- understand the rationale for studying red blood cell transfusion thresholds in TBI
- discuss the interpretation of the TRAIN study for acute brain injured patients
- explain the need for a transfusion trigger trial in SAH patients.

The HEMOTION Trial

Alexis Turgeon

The TRAIN Trial

Fabio Silvio Taccone

The SAHaRA Trial

Shane English

1:00-2:30

Session 14 – ICU Leadership

Location: 118-120

Objectives: At the end of the session, participants will be able to:

- review some of the basics of leadership.
- evaluate how informatics, data science, and AI can shift trauma care from reactive response to anticipatory precision medicine that predicts patient trajectories.

Leadership Style and Impact on Quality of Care

TBD

Improving Gender Balance in Critical Care

Sheila Myatra

How to be an Inspirational Leader

Javier Perez-Fernandez

Sociotechnical Change in Modern Trauma Systems

Morad Hameed

1:00-2:30

Session 15 – Preventing ICU Admission

Location: 220-222

Objectives: At the end of the session, participants will be able to:

- describe the spatial patterns, incidence, and outcomes of pediatric critical illness in British Columbia (Canada) over time.
- review the design, goals, and early outcomes of a provincial pediatric critical care outreach program created in partnership with community providers.
- review the role out and provincial impact of the critical care outreach nursing team.

Goals of Care

TBD

Pediatric Critical Care Outreach in British Columbia

Fiona Muttalib

Bridging the Distance: Supporting Critically Ill Children Closer to Home – Nurse Perspective

Anna Weir

Bridging the Distance: Supporting Critically Ill Children Closer to Home

Jennifer Retallack

1:00-2:30

Session 16 – Shock 1

Location: 109-110

Objectives: At the end of the session, participants will be able to:

- understand available tools to decide when and how much fluid to administer to critically ill patients with shock.
- identify the pathophysiological interplay between various types of shock and right ventricular (RV) dysfunction.
- understand the pharmacological principle for the use of corticosteroids in sepsis.

Fluids repletion

Brian Rochweg

BP Targets

TBD

Sepsis and Right Heart Failure

Ashina Jahan

The Use of Steroids in Shock

Djillali Annane

1:00-2:30

Session 17 – Pediatric 1

Location: 211

Objectives: At the end of the session, participants will be able to:

- summarise the impact of the PALICC-2 recommendations on the diagnosis of PARDS
- appreciate the importance and challenges of accurate prediction of neurological outcomes in critically ill children with acquired brain injury.
- apply the best practice evidence for early rehabilitation to critically ill children.
- recognize the challenges and consequences associated with long-stay Pediatric ICU patients.

Pediatric ARDS: PALICC-2 and Beyond

Guillaume Emeriaud

Neuro-prognostication in the Brain-injured Critically Ill Child

Rishi Ganesan

PICU Liberation: Impact on Outcomes and Practical Considerations

Karen Choong

Long Stay Pediatric Critical Care patients: Evidence Based Approaches and Best Practice

Vanessa Madrigal

1:00-2:30

Innovation Session 4 – Focus on the Research Design

Location 121-122

Objectives:

At the end of the session, participants will be able to:

- describe the platform trial model and its similarities with and differences from other clinical trial models.
- describe the rationale and key design considerations of platform trials.
- define what health economic evaluations, cost-effectiveness and cost-utility analyses.

The Platform Trial: A Tool for Global Research Collaboration

John Marshall

Platform Trial

Neill Adhikari

Health Economic Evaluations: Cost-Effectiveness and Cost-Utility Analyses

Vincent Lau

2:30-2:40

Break

2:40-4:10

Session 18 – Patient Safety

Location: 212-214

Objectives: At the end of the session, participants will be able to:

- assess when is a debrief helpful.
- discuss resilience engineering and ICU being an ecosystem.
- understand human factors which limit change on an individual level in the intensive care unit.

Team debrief after an adverse event- hot, cold and just right

Stephen Warrilow

Managing Surprise: The art of nothing happening

Neil Spencely

Readmission rates in the ICU and HEWS

TBD

We Want Progress, But We're Resistant To Change

Gil Wernovsky

2:40-4:10

Session 19 – Neurocritical Care

Location: 220-222

Objectives: At the end of the session, participants will be able to:

- describe the possible indications for advanced neuromonitoring.
- understand and apply key principles of the management of critically ill patients with neurovascular disorders (e.g. ischemic stroke, intracranial hemorrhage, etc.).
- review the limitations of existing diagnostic tools and scientific literature for predicting outcomes in brain-injured patients.
- review a case to gain an understanding of the acute stroke thrombolysis pathway in a regional center.
- understand the role of surgical management of skull.

Neuromonitoring in Critical Care

Donald Briesdale

Critical Care of Neurovascular Patients

Julie Kromm

Principles of Neuroprognostication

Andreas Kramer

Management of Stroke and Other Neurological Emergencies in a Community/Regional Setting

Errin Sawatsky

Controversies in Surgical Management of Traumatic Brain Injury

Peter Gooderham

2:40-4:10

Session 20 - **ECLS**

Location: 109-110

Objectives: At the end of the session, participants will be able to:

- exploring the evidence for anticoagulation in ECMO.
- appreciate general pharmacokinetic alterations in critically ill patients.
- discuss options for anticoagulation monitoring in patients on ECMO.
- describe a strategy for weaning from veno-venous ECMO.

Transfusion Thresholds in ECMO

Hussein Kanji

Drug pharmacokinetics During ECMO

David Williamson

Anticoagulation in Patients Requiring Extracorporeal Membrane Oxygenation Support

Stephanie Carlin

Weaning from ECMO

Gurmeet Singh

2:40-4:10

Session 21 – Sepsis 1

Location: 211

Objectives: At the end of the session, participants will be able to:

- understand the pathophysiology of sepsis and the mechanisms of sepsis-induced coagulopathy.
- explain how artificial intelligence (AI) algorithms can assist in identifying sepsis.
- discuss how a National Preclinical Sepsis Platform can be used to advanced future translational sepsis research.

Phoenix Sepsis Score

Mark Peters

Sepsis endotypes and how to use them in practice

Takaaki Totoki

Sepsis and AI for Recognition

Na Li

Creating a National Preclinical Sepsis Platform: Lessons Learned and Future Directions

Asher Mendelson

2:40-4:10

Innovation Session 5 – Focus on Artificial Intelligence

Location 121-122

Objectives: At the end of the session, participants will be able to:

- identify a recent example of clinically-relevant use of AI in pneumonia.
- examine how artificial intelligence and computer vision are being applied to point-of-care ultrasound (POCUS) to support diagnostic decision-making and improve access to imaging expertise across diverse clinical settings.
- know the process needed to implement a software using artificial intelligence.

Use of AI in Critical Care

Jim Russel

Artificial Intelligence and POCUS

Robert Arntfield

Implementation of artificial intelligence in clinical practice

Philippe Jouvett

4:10-4:30

Break

4:30-5:30

Plenary 6 - ACIOS: The African Critical Illness Outcomes Study

Location: West Ballroom A

Objectives: At the end of the session, participants will be able to:

- describe the key findings of the African Critical Illness Outcomes Study (ACIOS).
- describe the burden of critical illness, the current state of critical care, and the need for Essential Emergency and Critical Care in African hospitals.

ACIOS: The African Critical Illness Outcomes Study

Karima Khalid

ACIOS and EECC

Tim Baker

4:30-5:30

Plenary 7 – Transforming Pre-clinical and Critical Care Research

Location: West Ballroom B

Objectives: At the end of the session, participants will be able to:

- recognize the translational barriers in preclinical, laboratory based critical care research and their impact on patient outcomes.
- describe how the National Preclinical Sepsis Platform (NPSP) applies multicentre (i.e. 'multilaboratory'), standardized approaches to potentially improve clinical relevance.
- identify opportunities for clinician and patient engagement in shaping preclinical research to better align with bedside needs.
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Transforming Pre-clinical and Critical Care Research

Manoj Lalu

Thursday September 18, 2025

7:00-7:30

Registration - Level 1 City Foyer

7:30-8:45

Recap and Plenary 8 – Sepsis 2030

Location: West Ballroom A

Objectives: At the end of the session, participants will be able to:

- outline the latest burden of sepsis.
- discuss the factors that contribute to poorer outcome.
- describe the 2030 agenda of the GSA for sepsis.
-

A Moonshot for Sepsis: Improving Outcomes

Tex Kisson

7:30-8:45

Recap and Plenary 9 – Creating a Forum for Reporting Critical Care Clinical Trials

Location: West Ballroom B

Objectives: At the end of the session, participants will be able to:

- understand the requirement for a new forum for presenting major trial results
- discuss the unique format the Critical Care Reviews Meeting provides
- create a forum for reporting Critical Care Clinical Trials

Creating a Forum for Reporting Critical Care Clinical Trials

Rob Mac Sweeney

8:45-9:00

Break

9:00-10:30

Session 22 – Sepsis 2

Location: 212-214

Objectives: At the end of the session, participants will be able to:

- examine current ICU nursing knowledge, perceived barriers, and facilitators of sepsis recognition and management, as recently evaluated within a western Canadian context.

Stem Cell Sepsis

TBD

Immunothrombosis

TBD

Sepsis Recognition and Priority Management: From the ICU Nursing Lens

Katherine Kissel

Lipids and Sepsis

TBD

9:00-10:30
Session 23 – Shock 2
Location: 118-120

Objectives: At the end of the session, participants will be able to:

- understand the mechanisms by which methylene blue may improve vasodilatory shock.
- identify the preclinical and clinical data informing the role of intravenous hydroxocobalamin in adults with septic shock.
- summarize the existing evidence surrounding methylene blue in septic shock.

Introduction to the 10 D's of Fluid Stewardship
Manu Malbrain

Fluid responsiveness
TBD

Methylene Blue in Septic Shock - More than Just the Kitchen Sink?
Shannon Fernando

High-Dose Vitamin B12 in Septic Shock: The Rationale for a Phase III Trial
Jayshil Patel

9:00-10:30
Session 24 – Mechanical Ventilation 1
Location: 220-222

Objectives: At the end of the session, participants will be able to:

- outline the indications for use of prone positioning for ARDS patients.
- describe the working principles of proportional assist ventilation (PAV) and neurally adjusted ventilatory assist (NAVA) and how these modes can be titrated to support the work of breathing.
- Describe current guidelines about spontaneous ventilation in pediatric acute respiratory distress.
- calculate and manipulate driving pressure and understand its potential impact on outcomes.

Prone Positioning: Examining a Key Supportive Strategy in ARDS
Kathleen Vollman

Proportional Modes of Ventilation: Is There a Role for PAV and NAVA in Weaning Patients from Invasive Mechanical Ventilation?
Karen Bosma

Should we let intubated children breathe spontaneously?"
Guillaume Emeriaud

A 'New' Target for Mechanical Ventilation in AHRF - Driving Pressure
Niall Ferguson

9:00-10:30

Session 25 – Pharmacotherapy in ICU

Location: 109-110

Objectives: At the end of the session, participants will be able to:

- describe common drug interactions that occur in critically ill patients
- describe the physiological alterations in critically ill patients that affect antimicrobial pharmacokinetics.
- identify the key pharmacokinetics changes occurring during ECMO.
- understand how pharmaceutical supply chain in Canada and how drug shortages arise.

Drug interactions

Jeffrey Barletta

Pharmacodynamic/Kinetics Changes in Critically Ill Patient; Therapeutic Drug Monitoring

Paul Williams

Drug Shortage

Salmaan Kanji

Pharmacokinetic Considerations During ECMO

Celine Thibault

9:00-10:30

Session 26 – Organ Donation and Normothermic Regional Perfusion

Location: 211

Objectives: At the end of the session, participants will be able to:

- appreciate the growing application of NRP, and the evidence supporting benefit and safety.
- describe the key safety concerns associated with Normothermic Regional Perfusion (NRP), including the risk of brain reperfusion and ethical considerations.
- understand the impact of NRP will have on the donation system.

Overview of DCD around the world

Frederick D'Aragon

Normothermic Regional Perfusion - A Global Perspective

Dan Harvey

Reviving Organs, Preserving Trust: The Safety Imperative in NRP

Marat Slessarev

NRP-Impact on the system

George Isac

9:00-10:30

Session 27 – Early Mobilization 1

Location: 121-122

Objectives: At the end of the session, participants will be able to:

- describe how cycling in the ICU might fit into the continuum of ICU-based rehabilitation.
- Understand the benefits of early mobilization.
- describe nurses' role in creating Awake and Walking ICUs.
- Understand approaches to measuring mobilization-related adverse events in the ICU.

Cycling in the ICU: Current State of the Literature

Heather O'Grady

Early Mobilization from the Rehabilitation Perspective

Julie Reid

Transforming Critical Care: Nurses Leading the Awake and Walking ICU Movement

Kali Dayton

Is ICU Mobilization Safe?

Michelle Kho

10:40-11:40

Poster Discussion Sessions

Objectives: At the end of the session, participants will be able to:

- discuss various research among the critical care community from around the world.

See schedule on page xx

11:40-1:00

Lunch

Exhibits

Wellness

1:00-2:30

Session 28 – Mechanical Ventilation 2

Location: 212-214

Objectives: At the end of the session, participants will be able to:

- characterize reasons for extubation failure
- familiarize with current medical literature pertaining to the use of electrical impedance tomography (EIT) in patients with ARDS
- describe the pathophysiological mechanisms leading to ventilator-induced diaphragmatic dysfunction

Predicting Extubation Failure

Karen E.A. Burns

Detecting Ventilator Asynchrony and how to Manage

TBD

Electrical Impedance Tomography (EIT) to Titrate PEEP in Patients with ARDS

Robert Hyzy

Preventing Diaphragmatic Dysfunction

Elizabeth Rohrs

1:00-2:30

Session 29 - Delirium

Location: 118-120

Objectives: At the end of the session, participants will be able to:

- describe data evaluating antipsychotic use for delirium.
- understand the role and potential benefits of digital therapeutic interventions in managing delirium-associated agitation in clinical settings.
- compare traditional models of ICU care with emerging approaches that centre the family as active partners in delirium care.

Pharmacological Treatment of Delirium

Joanna Stollings

Beyond Medication: Digital Solutions for Delirium-Related Agitation

Steve Reynolds

Reimagining Delirium Care: The Role of Families as Partners in Prevention

Gideon Johnson

1:00-2:30

Session 28 – Pain in the Intensive Care Unit

Location: 220-222

Objectives: At the end of the session, participants will be able to:

- analyze the role of opioids for pain management in critically ill patients.
- describe the pharmacologic profile of ketamine, its unique properties, and the historical context for use as an analgo-sedative agent in the ICU setting.
- describe eras and why it is important in perioperative medicine.

Pain management in the ICU and the Opioid Crisis

Kunal Karamchandani

What is the Place of Ketamine in the ICU

Kimia Hornomand

Narcotic-induced Hyperalgesia or Use of Methadone in the ICU

TBD

Pain Management in the ICU

TBD

The Impact of eras on ICU Care

Nandita Divekar

1:00-2:30

Session 31 – Hematological Emergency

Location: 109-110

Objectives: At the end of the session, participants will be able to:

- describe the nursing care required for a patient receiving massive transfusion of blood products.
- Apply the "7 T's" framework as a practical and evidence-based guide for massively bleeding patients.
- discuss the implications of CAR-T cell therapy for Intensivists.
- diagnose Secondary HLH.

It's a Bloody Mess: Nursing Consideration for Massive Transfusion

Emily Taylor

Massive Transfusion
Sebastian Vuong

CAR-T Cell Therapy and Cytokine Release Syndrome
Srinivas Samavedam

Secondary HLH
Deepak Govil

1:00-2:30
Session 32 – Pediatric 2
Location: 211

Objectives: At the end of the session, participants will be able to:

- understand Iron metabolism and iron deficiency during critical illness.
- identify infrastructural elements important in translating education to clinical practice.
- discuss when a debrief is helpful.

Conservative vs liberal oxygenation targets in critically ill children: The Oxy-PICU trial
Mark Peters

Iron Deficiency and Anemia after PICU
Genevieve Du Pont Thibodeau

Impact of a Diagnostic POCUS program in a PICU
Thomas Conlon

Team debrief after an adverse event- hot, cold and just right
Stephen Warrilow

1:00-2:30
Oral Abstract Session 3
Location 121-122

Objectives: At the end of the session, participants will be able to:

- discuss critical care research projects from multiprofessionals globally

Reasons why Alberta ICU nurses stayed in their jobs post-pandemic: A qualitative study	Sadie Deschenes
Sepsis in Canadian Elementary and Secondary School Education: A Scoping Review	Muhadisa Ali
Shock in the critically unwell patient - does ultrasound scanning in shock and hypotension lead to improved clinician diagnosis? A systematic review.	Michael Dowe
Substitute Decision-Maker Satisfaction with Physician Communication in the Neurocritical Care Unit	Megha Shetty
Neurocognitive Outcome of Children Post-pediatric Intensive Care	Li Shu Yin Han
Impacts of Sedation Titration Using pEEG Monitors on Delirium Rates and Mechanical Ventilation	Fiona Howarth
Cleared for Take Off: Critical Care Flight Nursing in the Canadian Arctic	Mia-Bernadine Torres
Lived Experiences of Trauma in Residency Education	Amanda Roze des Ordons
The Adherence And Acceptability Of Oral Care With Or Without Chlorhexidine In Low Resource Setting: Pilot Quality Improvement Intervention	Temitope Owoniya

2:40-4:10

Session 33 – Non-invasive Mechanical Ventilation

Location: 212-214

Objectives: At the end of the session, participants will be able to:

- review the evidence base supporting the use of awake prone positioning.
- identify patients whom may benefit from the use of HFNO immediately after invasive mechanical ventilation.

Awake Prone Positioning - Is Tummy Time Ready for Prime Time?

Ken Kuljit Parhar

Titration and Transitioning Between HFNO and Invasive Mechanical Ventilation

Thomas Piraino

Sedation and Non-invasive Ventilation

Guillaume Emeriaud

2:40-4:10

Session 34 – Sedation and Anxiety

Location: 118-120

Objectives: At the end of the session, participants will be able to:

- apply equity, diversity, and inclusion principles when evaluating communication tools.
- Describe pros and cons of using inhalational versus intravenous agents for sedation.
- differentiate considerations of objective and subjective data and literature utilizing music-based interventions in critical and intensive care.

Communication Tools in ICU

Sabira Valiani

Inhaled Anesthetic Sedation in the ICU

Angela Jerath

Use of Music-based Interventions to Change the Care Landscape in the ICU

Annie Heiderscheit

2:40-4:10

Session 35 – Early Mobilization 2

Location: 109-110

Objectives: At the end of the session, participants will be able to:

- describe the communication needs of ICU patients who are non-speaking and need to use Augmentative and Alternative Communication to participate in a shared decision-making process to establish their goals of care.
- define Post-ICU Syndrome (PICS), including its physical, cognitive, psychological, and socioeconomic dimensions, and describe its impact on ICU survivors' daily lives and quality of life.
- review current research regarding occupational therapy in critical care.
- understand the perspectives of ECMO mobilisation approaches in Singapore.

Goals of Care/End-of-Life Discussions and Decision-making Using Augmentative and Alternative Communication

Fiona Campbell

Recovering Lives, Not Just Patients: Post-ICU Syndrome in Everyday Living

Fuchsia Howard

Acute & Critical Care Occupational Therapy: Enhancing Recovery Through Collaboration, Equity, and Excellence

Melissa Kandel

Early mobilization in patients on ECMO

Geetha Kayambu

2:40-4:10

Session 36 – Acute Renal Failure

Location 121-122

Objectives: At the end of the session, participants will be able to:

- discuss current evidence on CRRT dose-intensity in critical illness

AKI and Biomarker

TBD

Effect of Lower vs. Standard CRRT Dose-Intensity

Sean Bagshaw

Circuit Anticoagulation

TBD

Drug Dosing in CRRT

David Williamson

4:10-4:30

Break

4:30-5:30

Plenary 10 – AI in the ICU: Ethics and Biases

Location: West Ballroom A

Objectives: At the end of the session, participants will be able to:

- recognize and discuss the hidden costs and risks associated with AI deployment in healthcare, including domain knowledge asymmetry, inheritance bias, and human cognitive biases, highlighting their potential impact on clinical decision-making.
- summarize the three pillars of digital transformation in healthcare—data quality and quantity, technological infrastructure, and digital culture—and explain their relevance for effective AI integration in critical care
- describe the principles of "Algor-ethics," emphasizing the importance of integrating Human-in-the-Loop (HITL) and Algorithmic Stewardship approaches to ethically guide AI implementation in clinical practice.

AI in the ICU: Ethics and Biases

Johnathan Montomoli

4:30-5:30

Plenary 11 – Death Definition and Determination

Location: West Ballroom B

Objectives: At the end of the session, participants will be able to:

- understand the common physiological pathways to .
- understand the rationale for a single brain-based definition & determination of death

All Death is Brain-Based

Sam Shemie

Friday September 19, 2025

8:30-9:00

Registration

9:00-10:15

Recap and Plenary 12 – The Cost of ICU

Location: West Ballroom A

Objectives: At the end of the session, participants will be able to:

- appreciate the impact of critical illness of health system costs.
- describe how COVID-19 impacted health costs in Ontario.
- appreciate the impact of sepsis on future health costs using the "high-cost user" concept.

The Costs of Critical Illnesses

Kali Barrett

9:00-10:15

Recap and Plenary 13 – End of Life and Organ Donation

Location: West Ballroom B

Objectives: At the end of the session, participants will be able to:

- understand concepts and controversies in death determination in relation to deceased organ donation.
- review the findings of NEJM published study that affirms current safe practice in organ donation.
- appreciate the development of AI tools to predict time to death after withdrawal of life sustaining therapies.

Determination of Death: When is Dead, Really Dead?

Sonny Dhanani

10:15-10:30

Break

10:30-12:00

Session 37 – Critical Care Ventilator Weaning and Recovery Program

Location: 211

Objectives: At the end of the session, participants will be able to:

- describe the care gaps in managing patients with persistent or chronic critical illness across the continuum.
- describe program outcomes from the past ten years for the Center for Excellence in Prolonged Ventilation Weaning in Ontario.
- discuss the characteristics of chronically critically ill patients who are able to transition to the community.

The Critical Care Long Stay Program in Vaughan Ontario

Kimia Honarmand

Provincial Center for Excellence in Prolonged Ventilation Weaning

Laura Istanboulian

Grace RECOVER Program

Margaret Herridge

An international follow-up program

Louise Rose

10:30-12:00

Session 38 – Organ Donation 2

Location: 220-222

Objectives: At the end of the session, participants will be able to:

- describe the physiological principles behind phrenic nerve pacing and its role in respiratory function management for organ donors.
- describe the process of organ donation after medical assistance in dying.
- apply key concepts of patient and family centred care in the context of organ donation.
- describe key physical, emotional, and psychological symptoms experienced by patients and families at the end of life.

Breathing Life into Donation: Innovations in Phrenic Nerve Pacing for Organ Preservation

Steve Reynolds

MAID in Canada: Organ Donation Following Medical Assistance in Dying

Matthew Weiss

Patient and Family Centred Approaches in Organ Donation

Allana LeBlanc

Symptoms Management during End of Life Care in ICU

Nikolaos Efsthathiou

10:30-12:00

Session 39 – Intoxication in Intensive Care Unit

Location: 118-120

Objectives: At the end of the session, participants will be able to:

- detail the toxicologic red flags to look at during the 5 first minute of stabilisation.
- discuss indications for using extracorporeal treatment in the management of acute intoxication.
- propose treatment approaches for intoxication with new illicit drugs.

Approach to the critically ill poisoned patient

Maude St-Onge

Extracorporeal Treatment in the Management of Acute Intoxication

Jessie Beaulieu

Trends and Challenges of New Illicit Drugs

Janice Zimmerman

10:30-12:00

Innovation Session 6 – Focus on the Infrastructure

Location 109-110

Objectives: At the end of the session, participants will be able to:

- understand the potential barriers to critical care research in the Global South.
- become familiar with the Canadian Biobank Alliance infrastructure.

Setting up a Research Infrastructure with Limited Resources

TBD

Striving for Global Equity in Critical Care Research

Madiha Hashmi

Leveraging the Canadian Biobank Alliance for Advancing Intensive and Critical Care Research

Angela M. Crawley

12:15-1:15

Location: Ballroom A

Closing Ceremony

- Program Highlights
- Thoughts from Elder Roberta
- Songs by Shannon and Barbara
- Handover of WFICC presidency and WFICC Presentation
- WCICC 2028 and 2029 Announcement
- Closing presentation by ISICM for WCICC2027