



## 2024 CANADIAN CRITICAL CARE REVIEW (CCCR) PROGRAM

June 8 – 9, 2024

Toronto Airport Marriott Hotel, Toronto

### Learning Objectives

The learning objectives are developed based on the Royal College of Physicians and Surgeons of Canada objectives of training in Adult Critical Care.

By the end of the program, participants will be able to:

- describe evidence-based approaches to assessment of adult patients with critical illness;
- develop and implement evidence-based management plans for adult patients with critical illness.

Each session is 45 minutes with a minimum of 25% dedicated to participant interaction.

### SATURDAY, JUNE 8, 2024

Sessions will be held in British Columbia / Alberta / Quebec

Exhibits and breaks will be held in British Columbia Foyer

Time	Session	Faculty
7:00 a.m. - 8:00 a.m.	Check-in / Breakfast	
8:00 a.m. - 8:15 a.m.	Welcome	Program Chairs
8:15 a.m. - 9:00 a.m.	<p><b>Implicit Bias</b></p> <p>As members of the Canadian Critical Care Society, we strive to:</p> <ul style="list-style-type: none"> <li>• acknowledge bias and its impact on decision-making;</li> <li>• examine how experiences and identities shape our biases;</li> <li>• reflect and develop personal strategies to closely inspect the first impressions for bias; and</li> <li>• maintain a lifelong commitment to mitigate bias.</li> </ul>	Mithu Sen, Amanda Roze des Ordons
9:00 a.m. - 9:45 a.m.	<p><b>ICU Management of Oncological Complications</b></p> <p>At the end of this session, the participant will be able to:</p> <ul style="list-style-type: none"> <li>• recognize and manage the unique critical-care complications associated with malignancies and their novel therapies;</li> </ul>	Ben Gershkovich



	<ul style="list-style-type: none"> <li>develop a diagnostic and therapeutic approach to the critically-ill hematopoietic stem cell transplant patient.</li> </ul>	
9:45 a.m. - 10:30 a.m.	<p><b>Transplant for the Intensivist</b></p> <p>At the end of this session, the participant will be able to:</p> <ul style="list-style-type: none"> <li>describe the pathophysiology of rejection of a transplanted organ and the mechanism of action of immunosuppressive medications;</li> <li>discuss the ICU management of the peritransplant patient; and</li> <li>review post-transplant complications in liver transplantation.</li> </ul>	Dean Karvellas
10:30 a.m. -11:00 a.m.	Break	
11:00 a.m. - 11:45 a.m.	<p><b>Management of the Organ Donor</b></p> <p>At the end of this session, the participant will be able to:</p> <ul style="list-style-type: none"> <li>describe NDD and highlight key changes in the updated Canadian NDD donor management guidelines;</li> <li>discuss unique considerations for organ donation in the context of NDD, DCD and MAID;</li> <li>identify important considerations in communicating with families of patients being considered for organ donation.</li> </ul>	Jennifer Hancock
11:45 a.m. - 12:30 p.m.	<p><b>Weaning – Mechanical Ventilation</b></p> <p>At the end of this session, the participant will be able to:</p> <ul style="list-style-type: none"> <li>describe the 3 epidemiologic weaning groups and their respective prognoses;</li> <li>apply evidence-based methods for screening and testing patients to identify those ready for extubation; and</li> <li>formulate a management plan for difficult to wean patients.</li> </ul>	Karen Bosma
12:30 p.m. - 1:30 p.m.	Lunch	
1:30 p.m. - 2:15 p.m.	<b>Transportation of ICU Patients</b>	Danica Quickfall



	<p>At the end of this session, the participant will be able to:</p> <ul style="list-style-type: none"> <li>• predict the challenges encountered in transporting critically ill patients and identify mitigation strategies; and</li> <li>• compare the logistics and limitations of long distance patient transport modalities.</li> </ul>	
2:15 p.m. - 3:00 p.m.	<p><b>Obstetrics in Critical Care</b></p> <p>At the end of this session, the participant will be able to:</p> <ul style="list-style-type: none"> <li>• identify important maternal and foetal physiologic principles affecting critical illness during pregnancy; and</li> <li>• formulate a differential diagnosis and management plan for common critical illness presentations during pregnancy.</li> </ul>	Julien Viau-Lapointe
3:00 p.m. - 3:45 p.m.	<p><b>Infectious Disease in the ICU</b></p> <p>At the end of this session, the participant will be able to:</p> <ul style="list-style-type: none"> <li>• discuss the epidemiology of infections within the critically ill, with a focus on opportunistic infections; and</li> <li>• review concepts in antimicrobial strategies for lethal infections.</li> </ul>	Alexander Lawandi
3:45 p.m. - 4:15 p.m.	Break	
4:15 p.m. - 5:00 p.m.	<p><b>Acute Kidney Injury &amp; Renal Replacement Therapies</b></p> <p>At the end of this session, the participant will be able to:</p> <ul style="list-style-type: none"> <li>• review the common causes and management of AKI in critically ill patients;</li> <li>• describe the differences in renal replacement therapy modalities; and</li> <li>• assess and manage common complications of renal replacement therapy.</li> </ul>	Rachel Jeong
5:00 p.m. - 5:45 p.m.	<p><b>Legal Considerations for ICU Care</b></p> <p>At the end of this session, the participant will be able to:</p>	James Downar



	<ul style="list-style-type: none"> <li>• be aware of recent medicolegal developments in Canada around decision-making for the seriously ill;</li> <li>• understand current law and policy with respect to withholding and withdrawing life support; and</li> <li>• be familiar with ethical concepts and evidence related to "inappropriate", "nonbeneficial" or "futile" treatment.</li> </ul>	
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**SUNDAY, JUNE 9, 2024**

Sessions will be held in British Columbia / Alberta / Quebec

Exhibits and breaks will be held in British Columbia Foyer

<b>Time</b>	<b>Session</b>	<b>Faculty</b>
7:00 a.m. - 8:00 a.m.	Check-in / Breakfast	
8:00 a.m. - 8:15 a.m.	Welcome	Program Chairs
8:15 a.m. - 9:00 a.m.	<p><b>Neurological Critical Care</b></p> <p>At the end of this session, the participant will be able to:</p> <ul style="list-style-type: none"> <li>• assess the principles, application, and interpretation of invasive and non-invasive neuromonitoring;</li> <li>• describe the pathophysiology of intracranial hypertension and employ an organized approach to its management; and</li> <li>• discuss the current evidence-based management of patients with TBI.</li> </ul>	Victoria McCredie
9:00 a.m. - 9:45 a.m.	<p><b>Tips in Preparing for the Royal College Exam</b></p> <p>At the end of this session, the participant will be able to:</p> <ul style="list-style-type: none"> <li>• employ study strategies for the Royal College exam; and</li> <li>• identify content resources to help with preparation for the Royal College exam.</li> </ul>	Varuna Prakash
9:45 a.m. - 10:30 a.m.	<p><b>Non-Invasive Mechanical Ventilation / HFNC (High-Flow)</b></p>	Laveena Munshi



	<p>At the end of this session, the participant will be able to:</p> <ul style="list-style-type: none"> <li>• review the different non-invasive respiratory support devices and their physiologic effects;</li> <li>• review potential indications and contraindications for non-invasive respiratory support;</li> <li>• review the evidence and areas of uncertainty regarding the use of non-invasive respiratory support.</li> </ul>	
10:30 a.m. - 11:00 a.m.	Break	
11:00 a.m. - 11:45 a.m.	<p><b>Sepsis</b></p> <p>At the end of this session, the participant will be able to:</p> <ul style="list-style-type: none"> <li>• describe the pathogenesis and immune response to sepsis;</li> <li>• discuss the diagnostic criteria for sepsis;</li> <li>• select appropriate therapies for managing sepsis;</li> <li>• list approaches to infection control.</li> </ul>	Aleksandra Leligowicz
11:45 a.m. - 12:30 p.m.	<p><b>Cardiovascular Care of the ICU Patients</b></p> <p>At the end of this session, the participant will be able to:</p> <ul style="list-style-type: none"> <li>• describe the common post-operative cardiac surgery complications and an approach to their management;</li> <li>• describe the physiology and management of common post-operative cardiac surgery pathologies;</li> <li>• describe the modalities, indications, contraindications, and complications of commonly applied methods of mechanical circulatory support.</li> </ul>	Ken Parhar
12:30 p.m. - 1:30 p.m.	Lunch	
1:30 p.m. - 2:15 p.m.	<p><b>Acute Respiratory Failure: ARDS</b></p> <p>At the end of this session, the participant will be able to:</p> <ul style="list-style-type: none"> <li>• describe the history and epidemiology of ARDS;</li> <li>• describe the diagnosis of ARDS;</li> <li>• describe the management of ARDS including ventilation, pharmacological, and adjunctive.</li> </ul>	Ken Parhar



2:15 p.m. - 3:00 p.m.	<p><b>Airway Management</b></p> <p>At the end of this session, the participant will be able to:</p> <ul style="list-style-type: none"> <li>• identify predictors of difficult airway management;</li> <li>• develop an approach to the anticipated and unanticipated difficult airway; and</li> <li>• assess the pros and cons of a wide variety of airway management techniques.</li> </ul>	Jeff Granton
3:00 p.m. – 3:20 p.m.	Break	
3:20 p.m. - 4:05 p.m.	<p><b>Hemodynamic Monitoring in ICU</b></p> <p>At the end of this session, the participant will be able to:</p> <ul style="list-style-type: none"> <li>• identify hemodynamic variables that can help differentiate the cause of hemodynamic instability;</li> <li>• identify hemodynamic variables that can help differentiate the cause of hemodynamic instability.</li> </ul>	Allan Schaffer
4:05 p.m. - 4:50 p.m.	<p><b>Burns and Electrical Injuries</b></p> <p>At the end of this session, the participant will be able to:</p> <ul style="list-style-type: none"> <li>• examine burn patients to accurately determine the depth and extent of burn injuries;</li> <li>• apply modern resuscitation protocols in the management of major burn patients; and</li> <li>• recognize the unique complications and issues arising in patients with electrical injuries.</li> </ul>	Jack Rasmussen
4:50 p.m. – 5:35 p.m.	<p><b>Delirium and Sedation in the ICU</b></p> <p>At the end of this session, the participant will be able to:</p> <ul style="list-style-type: none"> <li>• develop an approach to the choice of sedation and analgesia for patients in the ICU;</li> <li>• apply scoring systems to assess the level of sedation and screen for delirium in patients in the ICU;</li> </ul>	Gord Boyd



	<ul style="list-style-type: none"><li>• describe preventative measures and therapeutic management of delirium.</li></ul>	
5:35 p.m. - 5:45 p.m.	Closing Remarks	Program Chairs



## Thank You to Our Sponsors

This program has received an educational grant from the following:

