



2022 CANADIAN CRITICAL CARE REVIEW (CCCR) PROGRAM

April 8 – 9, 2022

The Old Mill, 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:

1. Describe evidence-based approaches to assessment of adult patients with critical illness;
2. 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.

FRIDAY, APRIL 8, 2022

Sessions will be held in Brule B/C

Breakfast and lunch will be held in Brule A

Breaks will be held in Brule A

Time	Session	Faculty
7:00 a.m. - 8:00 a.m.	Breakfast	
8:00 a.m. - 8:15 a.m.	Welcome	Program Chairs
8:15 a.m. - 9:00 a.m.	<p>Management of the Organ Donor At the end of this session, participants will be able to:</p> <ul style="list-style-type: none"> • describe NDD and highlight key changes in the updated Canadian NDD donor management guidelines; • discuss unique considerations of management for NDD, DCD and MAID potential donors; • identify important features in the management of donor families. 	Jenn Hancock <i>Live on Zoom</i>
9:00 a.m. - 9:45 a.m.	<p>ICU Management of Trauma Patients At the end of this session, participants will be able to:</p> <ul style="list-style-type: none"> • describe the pathophysiology of blunt and penetrating trauma, as relevant to the intensivist; • discuss the management of blunt and penetrating trauma, as relevant to the intensivist. 	Barbara Haas <i>Live on Zoom</i>
9:45 a.m. - 10:30 a.m.	Transplant for the Intensivist	Dean Karvellas



	<p>At the end of this session, participants will be able to:</p> <ul style="list-style-type: none"> • recognize basic principles of immunosuppression; • review opportunistic and nosocomial infectious risk and disease in the solid organ transplant (SOT) recipient; • review perioperative issues and potential complications in the liver transplant recipient. 	
10:30 a.m. -11:00 a.m.	Break	
11:00 a.m. - 11:45 a.m.	<p>Weaning - Mechanical Ventilation</p> <p>At the end of this session, participants will be able to:</p> <ul style="list-style-type: none"> • describe the 3 epidemiologic weaning groups and their respective prognoses; • apply evidence-based methods for screening and testing patients to identify those ready for extubation; • formulate a management plan for difficult to wean patients. 	<p>Karen Bosma <i>Live on Zoom</i></p>
11:45 a.m. - 12:30 p.m.	<p>Acute Respiratory Failure: ARDS</p> <p>At the end of this session, participants will be able to:</p> <ul style="list-style-type: none"> • describe the current epidemiology and outcomes in patients with ARDS; • discuss the current evidence-based management of patients with ARDS. 	Eddy Fan
12:30 p.m. – 2:15 p.m.	Lunch	
2:15 p.m. - 3:00 p.m.	<p>Hemodynamic Monitoring in ICU</p> <p>At the end of this session, participants will be able to:</p> <ul style="list-style-type: none"> • identify clues on hemodynamic variables that help in the diagnosis of hemodynamically unstable patients; • describe how bedside ultrasound is the ideal complement of our current monitoring. 	André Denault
3:00 p.m. - 3:45 p.m.	<p>Cardiovascular Care of ICU Patients</p> <p>At the end of this session, participants will be able to:</p>	Ken Parhar



	<ul style="list-style-type: none"> • describe the common post-operative cardiac surgery complications and an approach to their management; • describe the physiology and management of common post-operative cardiac surgery pathologies; • describe the modalities, indications, contraindications, and complications of commonly applied methods of mechanical circulatory support. 	
3:45 p.m. - 4:15 p.m.	Break	
4:15 p.m. – 5:00 p.m.	<p>Sepsis</p> <p>At the end of this session, participants will be able to:</p> <ul style="list-style-type: none"> • assess pathogenesis and immune response to sepsis; • review the diagnostic criteria for sepsis; • review treatment of septic illnesses; and • assess preventative infection control techniques. 	<p>Bram Rochweg</p> <p><i>Live on Zoom</i></p>
5:00 p.m. – 5:45 p.m.	<p>Acute Kidney Injury & Renal Replacement Therapies</p> <p>At the end of this session, participants will be able to:</p> <ul style="list-style-type: none"> • review principles and application of the different modes of dialysis used in critically ill patients; • describe the evidence supporting treatments for acute renal failure in critically ill patients. 	<p>Jan Friedrich</p> <p><i>Live on Zoom</i></p>



SATURDAY, APRIL 9, 2022

Sessions will be held in Brule B/C

Breakfast and lunch will be held in Brule A

Exhibits and breaks will be held in Brule A

Time	Session	Faculty
7:00 a.m. - 8:00 a.m.	Breakfast	
8:10 a.m. - 8:15 a.m.	Welcome	Program Chairs
8:15 a.m. - 9:00 a.m.	<p>Non-Invasive Mechanical Ventilation / HFNC (High Flow)</p> <p>At the end of this session, participants will be able to:</p> <ul style="list-style-type: none"> describe the main mechanisms of the respiratory failure and the expected effects of techniques; describe the first-line technique for hypoxemic patients; describe non-invasive mechanical ventilation. 	<p>Laurent Brochard</p> <p><i>Live on Zoom</i></p>
9:00 a.m. - 9:45 a.m.	<p>Medicolegal Aspects of Critical Care</p> <p>At the end of this session, participants will be able to:</p> <ul style="list-style-type: none"> describe legal principles that frame practice of critical care medicine; describe key concepts of standard of care, including contractual and fiduciary duties, capacity, consent, and substitute decision-making. 	Laura Hawryluck
9:45 a.m. - 10:30 a.m.	<p>ICU Hematology</p> <p>At the end of this session, participants will be able to:</p> <ul style="list-style-type: none"> describe topics related to transfusion, anticoagulation, thrombocytopenia, hemolysis, DIC, and apheresis as they relate to critical illness; discuss thrombosis in the ICU; identify evidence to support anticoagulation decisions in COVID-19. 	<p>Ryan Zarychanski</p> <p><i>Live on Zoom</i></p>
10:30 a.m. - 11:00 a.m.	Break	
11:00 a.m. - 11:45 a.m.	<p>Obstetrics in Critical Care</p> <p>At the end of this session, participants will be able to:</p>	Julien Viau-Lapointe



	<ul style="list-style-type: none"> • identify important maternal and foetal physiologic principles affecting critical illness during pregnancy; • formulate a differential diagnosis and management plan for common critical illness presentations during pregnancy. 	
11:45 a.m. - 12:30 p.m.	<p>Burns and Electrical Injuries</p> <p>At the end of this session, participants will be able to:</p> <ul style="list-style-type: none"> • examine burn patients to accurately determine the depth and extent of burn injuries; • apply modern resuscitation protocols in the management of major burn patients; • identify the unique complications and issues arising in patients with electrical injuries. 	Jack Rasmussen
12:30 p.m. – 1:30 p.m.	Lunch	
1:30 p.m. - 2:15 p.m.	<p>Delirium and Sedation in the ICU</p> <p>At the end of this session, participants will be able to:</p> <ul style="list-style-type: none"> • describe general approach to sedation-analgesia for mechanically ventilated ICU patients; • assess level of sedation and presence of delirium in ICU patients; • identify prevention and treatment therapies for delirium. 	Lisa Burry <i>Live on Zoom</i>
2:15 p.m. – 3:00 p.m.	<p>Infectious Diseases in the ICU</p> <p>At the end of this session, participants will be able to:</p> <ul style="list-style-type: none"> • review common ICU infections and their management; • recognize infections not to be missed in the critically ill; • describe mechanisms of antimicrobial resistance including example pathogens. 	Wendy Sligl <i>Live on Zoom</i>
3:00 p.m. - 3:45 p.m.	<p>Airway Management</p> <p>At the end of this session, participants will be able to:</p> <ul style="list-style-type: none"> • articulate and apply an airway strategy using current airway management 	Laura Duggan



	<p>guidelines and a reliable cognitive framework;</p> <ul style="list-style-type: none"> • integrate simple learning tips into practice for first-pass success videolaryngoscopy, supraglottic device oxygenation rescue and cricothyrotomy; • describe the move to simplicity, predictability and teamwork to improve patient safety in airway management. 	
3:45 p.m. - 4:30 p.m.	<p>Neurological Critical Care At the end of this session, participants will be able to:</p> <ul style="list-style-type: none"> • identify evolving neurophysiologic concepts; • discuss emerging ventilation strategies in acute brain injury; • describe updates on the treatment of specific severe brain pathologies. 	Victoria McCredie <i>Live on Zoom</i>
4:30 p.m. – 5:15 p.m.	<p>Pandemic Management Panel At the end of this session, participants will be able to:</p> <ul style="list-style-type: none"> • describe the characteristics of the platform trial model that make it highly effective for pandemic research; • review the insights on the management of COVID-19 that have emerged through REMAP-CAP; • describe the impact of the pandemic on building global research collaboration and the implications for future clinical trials. 	John Marshall Bojan Paunovic James Downar
5:15 p.m. – 5:30 p.m.	Closing Remarks	Program Chairs

This event is an Accredited Group Learning Activity (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada, and approved by Continuing Professional Development, Schulich School of Medicine & Dentistry, Western University. You may claim a maximum of 9.5 hours (credits are automatically calculated).

This activity is an Accredited Self-Assessment Program (Section 3) as defined by the Maintenance of Certification Program of The Royal College of Physicians and Surgeons of Canada, and approved by Continuing Professional Development, Schulich School of Medicine & Dentistry, Western University. You may claim a maximum of 4.75 hours (credits are automatically calculated).

Each participant should claim only those hours of credit that he/she actually spent participating in the educational program.



Thank You to Our Sponsors

This program has received an educational grant from the following:

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