



CANADIAN  
ASSOCIATION OF  
CRITICAL  
CARE  
NURSES

**Dynamics of Critical Care™**

Caesars Windsor in Windsor, Ontario | SEPTEMBER 19, 20, 21, 2022

## PRESENTATIONS

**Tuesday, September 20, 2022**

## **Sunrise Session**

**(60 minutes)**

---

### **Sunrise Breakfast Session**

Information to follow

# **PHILIPS**

---

## Plenary

(60 minutes)

---

### Intimidation of health-care professionals: Changes to the criminal code in effect.

#### *Canadian Nurses Protective Society (CNPS)*

**Educational Stream:** Education  
**Patient Population:** All Ages  
**Learning Level:** Applicable to All

#### **Description**

Following protests against vaccination mandates that took place in the Fall of 2021 at various healthcare sites across Canada, the Criminal Code was amended to include the offence of intentionally taking steps to intimidate health-care professionals in specific circumstances. This presentation by the Canadian Nurses Protective Society (CNPS) will share information around the changes that came into effect on January 16, 2022.

**Key Words:** criminal code, healthcare professionals, intimidation

**Prerequisites:** None



**Canadian Nurses  
Protective Society**

**Société de protection  
des infirmières et infirmiers  
du Canada**

---

**Oral Posters****(20 minutes each)**

---

**Apparatus and method for moving patients: Provider experience and clinical evaluation of a novel proning device.**

*Kabilan Thanapaalasingham, Mete Erdogan, Nelofar Kurashi, and Robert Green, Halifax, NS.*

**Educational Stream:** Clinical Practice  
**Patient Population:** Adult  
**Learning Level:** Applicable to All

**Description**

This presentation will review the benefits of prone ventilation in critically ill patients with respiratory failure, as well as the challenges with the procedure. We will introduce the Apparatus and Method for Moving Patients, or PronatorPlus (PP) as a novel device to aid in proning ICU patients. We will describe the use of the PP, and provider experiences using it to reposition both healthy volunteers and critically ill patients with COVID-19 and severe respiratory failure.

**Key Words:** prone positioning, patient movement, patient safety, injury prevention

**Learning Objectives:**

1. Review the benefits and challenges of prone ventilation in critically ill patients with severe respiratory failure.
2. Introduce the PronatorPlus as a novel proning device.
3. Outline the provider experience using the PronatorPlus to prone both healthy volunteers and ICU patients with severe respiratory failure.

**Prerequisites:** None

## Nurse management of radial arterial lines: Quality & safety.

*Rachel Batty, Ottawa, ON*

**Educational Stream:** Research:  
**Patient Population:** All Ages  
**Learning Level:** Proficient

### Description

Nurses need tools to perform best practices to keep patients safe. Jury rigging to stabilize a patient's wrist for a radial arterial line (RAL) is common practice. Because the best tools for stabilizing the wrist are not always made available, nurses are forced to use tape, wrapped towels, tongue depressors and rigid armboards. Although they may appear cost effective, the use of tongue depressors as stabilization devices are not without an increased risk of development of opportunistic fungal infections in critically ill and immunocompromised patients. Hospital administrators need to pay attention to upgrading the tools nurse's use. This presentation will share the results of a study to improve the quality and safety of RALs.

**Key Words:** arm board, radial arterial lines

### Learning Objectives

1. Understand the importance of nursing management of radial arterial lines (RALs).
2. Understand the importance of the proper tools that are available and required to support radial arterial lines for patient safety.

**Prerequisites:** Experience in nursing management of patients who have radial arterial lines.

---

**Fast and Focused****(45 minutes)**

---

**Enhancing agility in crisis: Strategies, pitfalls and lessons in cross critical care collaboration.***Vininder Kour Bains, Dione Nordby, and Lena Farina, Vancouver, BC*

**Educational Stream:** Leadership  
**Patient Population:** All Ages  
**Learning Level:** Applicable to All

**Description**

This presentation will share how one organization radically enhanced their cross critical care collaboration to respond to the COVID-19 pandemic, and key lessons learned to rebuild the intensive care unit (ICU), cardiac ICU and cardiac surgery ICU services to be more resilient and adaptable to future crises. This will include the pre-existing strategies to support collaboration pre-pandemic, strategies implemented during the highest demands, and strategies the organization is working to embed in the future with the hope of building a more agile critical care services.

**Key Words:** COVID-19, pandemic, staffing models, redeployment

**Learning Objectives**

1. Identify at least 3 key lessons regarding critical care staffing in a pandemic.
2. Describe at least 2 strategies to enhance collaboration between critical care units that service different patient populations (e.g., ICU, CICU, CSICU).

**Prerequisites:** None

## Exploring diabetes insipidus (DI) versus syndrome of inappropriate antidiuretic hormone (SIADH).

*Lara Parker, Burnaby, BC*

**Educational Stream:** Education

**Patient Population:** Adult

**Learning Level:** Novice

### Description

This presentation is intended to provide the critical care nurse with the ability to clearly recognize, differentiate, and support the critically ill patient experiencing either Diabetes Insipidus (DI) or Syndrome of Inappropriate Antidiuretic hormone (SIADH). In this engaging session, DI and SIADH will be explored by reviewing the basics of the endocrine system and understanding DI and SIADH pathophysiology. Furthermore, DI and SIADH symptoms, patient populations, diagnostic tests, and treatment process will be compared and contrasted.

**Key Words:** endocrine, syndrome of inappropriate antidiuretic hormone (SIADH), diabetes insipidus (DI), osmolarity,

### Learning Objectives

1. Explain the pathophysiology of diabetes insipidus (DI) and syndrome of inappropriate antidiuretic hormone (SIADH).
2. Explain the symptoms of DI and SIADH.
3. Compare and contrast the symptoms of DI versus SIADH.
4. Analyze the evaluation tests to determine DI or SIADH.
5. Analyze the interventions and treatments of DI or SIADH.

**Prerequisites:** None

## Exploring paediatric nurses' perspectives on their work environment, work attitudes, and experience of burnout: What really matters?

*Laura Buckley, Toronto, ON*

**Educational Stream:** Research  
**Patient Population:** Pediatric  
**Learning Level:** Intermediate

### Description

This presentation will contribute to the understanding of pediatric nurse work psychology through examination of the work environment, work attitudes, and work outcomes. Specifically, the aim of this the research presented is to identify which modifiable work environment factors make the greatest contribution to the work outcome of burnout in pediatric nurses and provide nurses and organizational leaders with a targeted focus to optimize work outcomes and provider well-being in a resource limited system based on key stakeholder feedback.

**Key Words:** pediatric, critical care, burnout, mixed-methods

### Learning Objectives

1. To investigate, among pediatric nurses, the prevalence and/or degree of burnout, the factors related to burnout, the outcomes of burnout, and the intervention.
2. To examine the relationships between modifiable work environment features or work attitudes associated with the work-related outcome of burnout among pediatric critical care nurses.
3. To explain and expand understanding of the pediatric critical care nurses' experience of burnout in relation to nurses' work environment and work engagement.

**Prerequisites:** None

## Intensive Care Unit (ICU) nurses' experiencing distress during the pandemic: A critical incident study.

*Myriam Breau, Ann Rheaume, and Stéphanie Boudreau, Moncton, NB*

**Educational Stream:** Research  
**Patient Population:** All Ages  
**Learning Level:** Intermediate

### **Description**

This presentation will present qualitative findings of from a mixed-method study examining psychological distress experienced by Canadian intensive care unit (ICU) nurses during the second wave of the COVID-19 pandemic. Four themes from the nurses' narratives: Managing the pandemic, witness to family's grief, our safety, and futility of care, will be discussed.

**Key Words:** moral distress, COVID-19, intensive care unit (ICU) nurses, critical incident technique.

### **Learning Objectives**

1. Outline issues in the work environment causing psychological distress in intensive care unit (ICU) nurses during the COVID-19 pandemic.
2. Identify targeted strategies to reduce psychological distress in ICU nurses during a pandemic.

**Prerequisites:** None

## Intravenous (IV) fluids: Routine care or important medical therapy?

*Sarah Crowe, Langley, BC*

**Educational Stream:** Clinical Practice

**Patient Population:** Adult

**Learning Level:** Applicable to All

### **Description**

The presentation will highlight the importance of intravenous (IV) fluid administration as an important therapy that should be given the same consideration as other drugs and medications. The presentation will examine the different types of commonly used IV fluids in critical care (crystalloids, colloids), the impact fluid administration has on patient outcomes, the different purposes of fluid administration (resuscitation, replacement, routine), and patient fluid volume assessment techniques that can be implemented.

**Key Words:** Intravenous (IV) fluid, patient safety, assessment

### **Learning Objectives**

1. Participants will be able to understand the importance of intravenous (IV) fluid use.
2. Understand the potential harms associated with IV fluid administration.
3. To provide case study examples of IV fluid usage and their impact on patient outcomes

**Prerequisites:** None

## It's blue, but is it good for you? Methylene blue.

*Shirley Marr, Mississauga, ON*

**Educational Stream:** Clinical Practice:  
**Patient Population:** Adult  
**Learning Level:** Applicable to All

### **Description**

This session will give an overview of intravenous (IV) methylene blue (MB) produced in Germany in the 1800s, including its use in critical care and the patient population(s) it may be most helpful for, as well as side effects.

**Key Words:** methylene blue, shock

### **Learning Objectives**

1. By the end of this session the participant will be able to discuss the disease processes that methylene blue (MB) can be useful for.
2. At the end of this presentation the participant will be able to identify side effects of MB.

**Prerequisites:** None

---

## Concurrent Sessions

(60 minute)

---

**Combining review methodology and quality improvement to inform remote telemetry monitoring practices for new nurses in a community hospital critical care setting.**

*Brandi Vanderspank-Wright, Natalie Bourgeois, Michelle Lalonde, Rosalin Awad-Maglieri, Sarah Crowe, Carley Alexander, and Alexandre Pinet, Ottawa, ON*

**Educational Stream:** Clinical Practice  
**Patient Population:** Adult  
**Learning Level:** Applicable to All

### Description

This presentation will describe how a rapid review and quality improvement framework was used to create unit level practices for transitioning new critical care nurses to remote telemetry monitoring. This session will describe how incorporating evidence into existing practice created a sustainable and evolving process that emphasizes support for transitioning new critical care nurses.

**Key Words:** rapid review, remote telemetry, critical care nursing, transition to practice, quality improvement

### Learning Objectives

1. To understand how rapid review methodology can inform clinical practice.
2. To comprehend how quality improvement approaches lend themselves to iterative practice change.
3. To apply evidence in a timely manner to facilitate the implementation of novel educational strategies for critical care nursing practice.

**Prerequisites:** None. This session may be useful for critical care nurse educators and managers.

## Creation of a strategic critical care program: Early successes, unexpected challenges, and next steps.

*Fidelma Nicol, Caroline Penner, and Alana Larkin Grant, Maple Ridge, BC*

**Educational Stream:** Education  
**Patient Population:** Adult  
**Learning Level:** Applicable to All

### Description

The Covid-19 pandemic exacerbated existing critical care (CC) registered nurse (RN) vacancies across a British Columbia health authority. One mitigation strategy was the creation of a 12-week competency-based education program. This presentation will outline this innovative training stream, entitled Critical Care Program (CCP), which uses virtual modalities, high fidelity simulation, instructor led clinical experiences, and a robust guest lecturer series.

**Key Words:** critical care competencies, blended curriculum, education pathway, resource allocation

### Learning Objectives

1. Understand the rationale for creation of a sustainable critical care education program, in the context of a well socialized external education option.
2. Describe curriculum development and delivery, related to synchronous education, simulation, and clinical experiences.
3. Outline program and learner evaluation processes, as they relate to curriculum redesign and program expansion.

**Prerequisites:** None

## Early immersion role, what does the data show and how this impacts critical care environments in the future

*Angela Foote, Little Harbour, NS*

**Educational Stream:** Education  
**Learning Level:** Applicable to All  
**Population:** Adult

This presentation will share information on a new role within a health authority in Nova Scotia. This new role involves a Bachelor of Science in Nursing (BScN) student to be hired on a casual basis and immersed in the clinical setting to achieve success with standardized tools. Innovative thinking and closing the gaps between schools of nursing (academia) and acute care sites using key tools to establish accountability. Using a practice progression model and Benner theory, new grads will be more confident, less overwhelmed, and will develop increased leadership skills.

### **Learning Objectives:**

1. Be able to identify how transition to practice documents support new nursing hires success in a clinical area.
2. Identify strategies with early immersion programs.
3. Summarize key roles that can provide different supportive means to new hires in any clinical practice area.

**Prerequisites:** None

## Reckoning with racism against Indigenous people: The need for critical reflection.

*Karina Redick, London, ON*

**Educational Stream:** Leadership:  
**Patient Population:** All Ages  
**Learning Level:** Intermediate

### Description

The COVID-19 pandemic has brought to light abuses against oppressed groups in Canada including black, indigenous, and people of colour. Specifically, Indigenous nurses and patients are under attack every day from discriminatory practices, while living and working within a colonial society and healthcare setting. This session is led by a white settler critical care nurse wishing to share insights into her study of postcolonial theory as it applies in the critical care setting.

This presentation will offer a review of research into the experiences of nurses and patients within the critical care area related to racism, education into postcolonial concepts, and discussion around implicit bias. This presentation is meant to stir discussion about the possibilities for change that is led by nurses who think critically and can combine knowledge of the social determinants of health with insight of postcolonial concepts.

This presentation is for nurses who wish to learn about being an advocate/ally for patients and colleagues who live within these marginalized and oppressed groups. It is also for nurses interested in incorporating postcolonial and critical race theory into their practice, in order to provide holistic, safe, and culturally safe care to their clients. Participants will have the opportunity to have open discussions, and submission to author for stories and experiences is welcomed if anonymity is preferred.

**Key Words:** racism, Indigenous, diversity, political dissent

### Learning Objectives

1. Participants will gain insights into postcolonial and critical race theory and how this applies to their work in critical care.
2. Participants will critically reflect on their position within a colonial society and healthcare system.

**Prerequisites:** None. Participants are encouraged to have curiosity, an open mind, a listening heart, and a mission to provide holistic, safe, and culturally informed care to members of oppressed groups.

## Sometimes it's up to US: Ultrasound guided peripheral IV insertion for difficult vascular access.

*Ryan Chan, Ottawa, ON*

**Educational Stream:** Clinical Practice

**Patient Population:** Adult

**Learning Level:** Intermediate

### **Description**

An overview of peripheral intravenous (IV) cannulation under ultrasound (US) guidance on patients with difficult IV access. This presentation will include basic vascular ultrasound principles, assessment, insertion technique, evaluation, troubleshooting, as well as pros and cons of ultrasound guided IV insertion.

**Key Words:** ultrasound (US) guided, vascular access, clinical practice

### **Learning Objectives**

1. When Ultrasound (US) Guided Intravenous (IV) insertion may benefit a patient.
2. Assessment and selection of optimal veins for access with US.
3. Knowledge of how to increase likelihood of cannulation success.
4. Assessment of IV patency under US.

**Prerequisites:** Basic knowledge of intravenous (IV) insertion and therapy, ultrasound (US) imaging and/or experience using Ultrasound Guided IV insertion would be an asset.

## The impact of the COVID-19 pandemic on Canadian critical care nurses.

*Sarah Crowe, Langley, BC, Brandi Vanderspank-Wright, Ottawa, ON, and Fuchsia Howard, Vancouver, BC*

**Educational Stream:** Leadership  
**Patient Population:** All Ages  
**Learning Level:** Applicable to All

### Description

This presentation will describe the result of two studies conducted during the COVID-19 pandemic that examined the impact of the pandemic on the mental health of Canadian critical care nurses. The results of the studies will be shared, along with possible strategies of coping with the pandemic. At the end of the presentation an open forum discussion will be conducted to facilitate sharing of ideas and solutions to support critical care nurses.

**Key Words:** pandemic, mental health, burnout, nursing

### Learning Objectives

1. To describe the impact of the COVID-19 pandemic on the mental health of critical care nurses.
2. To describe possible strategies for coping with the pandemic.
3. To facilitate an open discussion to identify solutions and strategies to better support critical care. nurses

**Prerequisites:** None

## Uncovering work-related problems among organ donation coordinators: The BRiC research program

*Amina Silva, Ottawa, ON*

**Educational Stream:** Research, Leadership  
**Patient Population:** All Ages  
**Learning Level:** Applicable to All

Organ and Tissue Donation Coordinators (OTDCs) play a key role in deceased organ donation. However, due to the emotionally challenging and stressful scenarios faced daily, OTDCs are commonly affected by work-related issues (e.g., burnout and compassion fatigue), which can lead to increased turnover and reduced quality of healthcare services. This presentation will provide an overview of the program and cover preliminary findings from data collection.

**Key Words:** BRiC Research Program, Organ and Tissue Donation Coordinators (OTDCs), burnout, compassion fatigue, turnover,

### Learning objectives

1. Understand the research methodology
2. Understand the preliminary themes obtained from the scoping review and initial data collection
3. Apply knowledge of themes of work-related issues

**Prerequisites:** None



## Understanding mechanical circulatory support: It isn't all that VAD.

*Karine Allard, Stittsville, ON*

**Educational Stream:** Clinical Practice  
**Learning Level:** Intermediate  
**Population:** Adult

### Description

This presentation will provide a brief review on the cardiovascular system and how it relates to various stages of heart failure (with or without preserved ejection fraction), with the eventual progression leading to end-stage failure. Various support devices available on the market today, including the Impella®, HeartMate III™, HeartWare™, CentriMag™, extracorporeal membrane oxygenation (ECMO), and intra-aortic counterpulsation therapy, will be reviewed with a focus on how these therapies apply to various patient presentations, how their use affects quality of life and daily living, and goals of therapy.

**Key Words:** circulatory support, clinical education

### Learning Objectives

1. Identify end stage heart failure.
2. Explain the difference between short term and long term mechanical circulatory support (MCS) therapy.
3. Explain the difference between bridge-to-transplant and destination therapy.
4. Identify which MCS device is appropriate for which population.
5. Explain impacts of long term MCS on patient quality of life and daily living.

**Prerequisites:** A basic understanding of the cardiovascular system would be an asset.

---

## Mastery Sessions

(120 minute)

---

### Without a cure: Shifting the culture of palliative care in the intensive care unit (ICU).

*Colleen Breen, Brenda Blais-Nesbitt, Karen Groenweg, Carmen Grover, Rebecca Heaven, and Sheila Weir, London, ON*

**Educational Stream:** Clinical Practice  
**Learning Level:** Applicable to All  
**Population:** Paediatric

#### Description

Based on an evidence-based practice improvement initiative, this arts-based, interactive workshop integrates storytelling from families and healthcare providers, didactic presentations, personal self-reflection, and hands-on experiences in integral components of palliative care and creating memories at end-of-life (EOL) in the intensive care unit (ICU). Gaps in palliative care in the ICU will be discussed. Strategies to create a more grief and bereavement-informed culture in the ICU will be reviewed and demonstrated in the pursuit of enhanced care for children with life limiting and life threatening illnesses, their families, and healthcare team members.

**Key Words:** palliative care, end-of-life, grief, intensive care unit (ICU)

#### Learning Objectives:

1. To describe the development of a health care culture that is grief and bereavement-informed through education, mentorship, and research.
2. To identify gaps in palliative care in the intensive care unit (ICU) for patients with life-limiting and life-threatening illnesses and their families
3. To describe strategies for enhancing palliative care and end-of-life (EOL) practices in the ICU.
4. To demonstrate creative strategies for creating memories at EOL, bereavement support, and staff mentorship.

**Prerequisites:** None