



Canadian Journal of Emergency Medicine/Journal canadien
de la médecine d'urgence

Volume 21 Issue 6

November 2019/novembre 2019



Inspiring excellence in emergency medical care



CAMBRIDGE
UNIVERSITY PRESS

Canadian Journal of Emergency Medicine Editorial Board

Editor-in-Chief

Ian G. Stiell, MD, MSc
University of Ottawa, Canada

Deputy Editors

Paul Atkinson, MB, BCh, BAO, MA
Dalhousie University, Canada

Eddy Lang, MD, CM
University of Calgary, Canada

Managing Editor

Jennifer Brinkhurst, BAH
Ottawa, Canada

Assistant Managing Editor

Jacqueline Fraser, RNBN
Saint John, Canada

Social Media Editor

Hans Rosenberg, MD
University of Ottawa, Canada

Associate Social Media Editor

Simon Huang, MD, MSc,
Dalhousie University, Canada

Editor Emeritus

James Ducharme, MD
McMaster University, Canada

Grant Innes, MD
University of Calgary, Canada

Decision Editors

David Barbic, MD, MSc
University of British Columbia, Canada

Peter Alistair Cameron, MBBS, MD
The Alfred Hospital and Monash University, Australia

Alix Carter, MD, MPH
Dalhousie University, Canada

Kerstin de Wit, MBChB, MSc, MD
McMaster University, Canada

Quynh Doan, MDCM, MHSc, PhD
University of British Columbia, Canada

Marcel Émond, MD, MSc
Université Laval, Canada

Sophie Gosselin, MD
McGill University, Canada

Robert S. Green, MD
Dalhousie University, Canada

Andrew K. Hall MD, MMed
Queen's University, Canada

David Lewis, MBBS
Dalhousie University, Canada

Kirk Magee, MD, MSc
Dalhousie University, Canada

Andrew McRae, MD, PhD
University of Calgary, Canada

Shawn Mondoux, MSc, MD
McMaster University, Canada

Catherine Patocka, MDCM, MHPE
University of Calgary, Canada

Naveen Poonai, MD, MSc
Western University, Canada

Brian Steinhart, MD
University of Toronto, Canada

Daniel K. Ting, MD
University of British Columbia, Canada

Rob Woods, MD, MMed
University of Saskatchewan, Canada

Peter J. Zed, PharmD
University of British Columbia, Canada

Associate Editors

Teresa Chan, MD
McMaster University, Canada

Garth Dickinson, MD
University of Ottawa, Canada

Jeff Eppler, MD
Kelowna General Hospital, University of British Columbia, Canada

Mete Erdogan, PhD, MHI
Dalhousie University, Canada

Ran Goldman, MD
University of British Columbia, Canada

Niranjan Kissoon, MD
University of British Columbia, Canada

Patrick McLane, PhD
Alberta Health Services, University of Alberta, Canada

Laurie J. Morrison, MD, MSc
University of Toronto, Canada

Heather Murray, MD, MSc
Queen's University, Canada

Jeffrey Perry, MD, MSc
University of Ottawa, Canada

Roy Purssell, MD
University of British Columbia, Canada

Michael J. Schull, MD, MSc
University of Toronto, Canada

John M. Tallon, MD, MSc
University of British Columbia, Dalhousie University, Canada

Suneel Upadhye, MD
McMaster University, Canada



Vol. 21, No. 6
November 2019/novembre 2019

cjem-online.ca



For *CJEM*'s next audio summary describing the best editorials and articles in this November issue, visit <https://soundcloud.com/user-124260332/cjem-nov-2019-audio-summary> (English) and <https://soundcloud.com/user-124260332/cjem-novembre-2019-french-audio-summary> (French)

Table of Contents • Table des matières

EDITORIAL • ÉDITORIAL

- 689 POCUS predicts prognosis in cardiac arrest
Elizabeth Lalande, Michael Y. Woo
-
- 691 Community paramedicine: A patch, or a real system improvement?
Peter Cameron, Alix Carter
-
- 694 Specialized concussion clinic referrals are not intended for all acute concussion patients in the emergency department
Catherine E. Varner
-

COMMENTARY • COMMENTAIRE

- 698 Where do goals of care conversations belong? A case for the emergency department
Brittany Cameron, Andreas Laupacis
-

CJEM DEBATE SERIES • SÉRIE DE DÉBATS JCMU

- 701 *CJEM* Debate Series: #DomesticViolence – We should routinely screen for domestic violence (intimate partner violence) in the emergency department
Nikita Arora, Clarissa Hjalmarsson, Eddy Lang, Adrian Boyle, Paul Atkinson
-

JUST THE FACTS • SEULEMENT LES FAITS

- 706 How do I manage the emergency airway?
Jayanand Mekwan, Calvin A. Brown III
-

NEED TO KNOW: CJEM JOURNAL CLUB • BESOIN DE SAVOIR: CLUB DE LECTURE JCMU

- 710 Does the tonicity or rate of intravenous fluid infusion affect neurologic outcomes in children with diabetic ketoacidosis?
Nicholas Packer, Miles Hunter, Shawn Dowling
-

CJEM • JCMU



CAMBRIDGE
UNIVERSITY PRESS

- 713 Does bag-mask ventilation between induction and laryngoscopy reduce the incidence of hypoxemia during intubation of critically ill patients?
Geordon Avery-Cooper, Scott Seadon
-
- 715 Can we safely use a wait and see approach for patients with recent onset atrial fibrillation?
Saahil Vij, Amy Burton, Heather Murray, Melanie Walker
-

CAEP PAPER • PAPIER ACMU

- 717 Choosing Wisely Canada's emergency medicine recommendations: Time for a revision
Amy H. Y. Cheng, Sam Campbell, Lucas B. Chartier, Shawn Dowling, Tom Goddard, Sophie Gosselin, Brian R. Holroyd, Atul K. Kapur, Kirk Magee, Jill McEwen, Venkatesh Thiruganasambandamoorthy, Suneel Upadhye, Brian H. Rowe
-

POINT OF CARE ULTRASOUND • ÉCHOGRAPHIE CIBLÉE

- 721 Recommendations for the use of point-of-care ultrasound (POCUS) by emergency physicians in Canada
David Lewis, Louise Rang, Daniel Kim, Laurie Robichaud, Charisse Kwan, Chau Pham, Allan Shefrin, Brandon Ritcey, Paul Atkinson, Michael Woo, Tomislav Jelic, Genevieve Dallaire, Ryan Henneberry, Joel Turner, Rafiq Andani, Roisin Demsey, Paul Olszynski
-
- 727 Diagnostic accuracy of eFAST in the trauma patient: a systematic review and meta-analysis
Stuart Netherton, Velimir Milenkovic, Mark Taylor, Philip J. Davis
-

CARDIAC ARREST • ARRÊT CARDIAQUE

- 739 Do combined ultrasound and electrocardiogram-rhythm findings predict survival in emergency department cardiac arrest patients? The Second Sonography in Hypotension and Cardiac Arrest in the Emergency Department (SHoC-ED2) study
Nicole Beckett, Paul Atkinson, Jacqueline Fraser, Ankona Banerjee, James French, Jo-Ann Talbot, George Stoica, David Lewis
-
- 744 How is quality of cardiopulmonary resuscitation being assessed? A national survey of Canadian emergency medicine physicians
Natasha Wright, Yiqun Lin, Adam Cheng
-

PARAMEDICINE • PARAMÉDECINE

- 749 Community paramedicine: A systematic review of program descriptions and training
Joyce Chan, Lauren E. Griffith, Andrew P. Costa, Matthew S. Leyenaar, Gina Agarwal
-
- 762 Fatigue and Safety in Paramedicine
Elizabeth A. Donnelly, Paul Bradford, Matthew Davis, Cathie Hedges, Doug Socha, Peter Morassutti
-
- 766 What do community paramedics assess? An environmental scan and content analysis of patient assessment in community paramedicine
Matthew S. Leyenaar, Brent McLeod, Sarah Penhearow, Ryan Strum, Madison Brydges, Eric Mercier, Audrey-Anne Brousseau, Floyd Besserer, Gina Agarwal, Walter Tavares, Andrew P. Costa
-
- 776 Evaluation of pain management in medical transfer of trauma patients by air
Isabelle H. Miles, Russell D. MacDonald, Sean W. Moore, James Ducharme, Christian Vaillancourt
-

CLINICAL • CLINIQUE

- 784 Examining Canada's return visits to the emergency department after a concussion
Laura Morrison, Rachel Taylor, Mathew Mercuri, Jennifer Thompson
-
- 789 The use of a self-check-in kiosk for early patient identification and queuing in the emergency department
Natalie Coyle, Andrew Kennedy, Michael J. Schull, Alex Kiss, Darren Hefferon, Paul Sinclair, Zuhair Alsharafi
-
- 793 The prevalence of pathological findings identified by next day abdominal ultrasound in patients discharged from the emergency department
Stephanie Cargnelli, Cameron Thompson, Taylor Dear, Aislinn Sandre, Bjug Borgundvaag, Shelley L. McLeod
-
- 798 The emergency department experience of patients with early pregnancy complications: A qualitative study
Vanessa Rojas-Luengas, Bianca Seaton, Katie Dainty, Shelley McLeod, Catherine Varner
-

EDUCATION • ENSEIGNEMENT

- 803 The development of entrustable professional activities reference cards to support the implementation of Competence by Design in emergency medicine
Emily J. Stoneham, Lara Witt, Quinten S. Paterson, Lynsey J. Martin, Brent Thoma
-
- 807 Osler's ghost and the medical student
Brian Deady
-

CASE REPORTS • RAPPORTS DE CAS

- 809 Triple-sequential defibrillation for refractory ventricular fibrillation in a 24-year-old male out of hospital cardiac arrest
Adam Bignucolo, Adam Parent, Mark Dube, John Kusnierczyk, Dominique Ansell, Robert Ohle
-

HUMANITY • HUMANITÉ

- 812 The scars we carry
Leo R. Carroll
-
- 814 A loving embrace
Christopher Byrne
-

GLOBAL RESEARCH HIGHLIGHTS • FAITS MARQUANTS DE LA RECHERCHE MONDIALE

- 816 Global Research Highlights
-

LETTERS (Online Only)

Needs assessment to identify content for simulation-based curricula in emergency medicine

What's in a name?

Response to letter by Campbell and Teed in *CJEM*

ERRATUM (Online Only)

Changing the culture of residency training through faculty development – ERRATUM
