



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

Volume 21 Issue 2

March 2019/mars 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*

## 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*

Teresa Chan, MD  
*McMaster University, Canada*

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

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

Ran Goldman, MD  
*University of British Columbia, Canada*

Sophie Gosselin, MD  
*McGill University, Canada*

Robert S. Green, MD  
*Dalhousie University, Canada*

Kirk Magee, MD, MSc  
*Dalhousie University, Canada*

Andrew McRae, MD, PhD  
*University of Calgary, Canada*

Shawn Mondoux, BEng, MSc, MD  
*McMaster University, Canada*

Catherine Patocka, MDCM, MHPE  
*University of Calgary, Canada*

Brian Steinhart, MD  
*University of Toronto, Canada*

Daniel K. Ting, MD  
*University of British Columbia - Interior Site, Canada*

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

## Associate Editors

Garth Dickinson, MD  
*University of Ottawa, Canada*

Marcel Émond, MD, MSc  
*Université Laval, Canada*

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

Mete Erdogan, BSc, PhD, MHI  
*Dalhousie University, Canada*

Devin R. Harris, MD, MHSc  
*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, BS, MD  
*McMaster University, Canada*

## Social Media Editor

Hans Rosenberg, MD  
*University of Ottawa, Canada*

Vol. 21, No. 2  
March 2019/mars 2019

[cjem-online.ca](http://cjem-online.ca)



For *CJEM's* next audio summary describing the best editorials and articles in this March issue, visit <https://soundcloud.com/user-124260332/cjem-march-2019-audio-summary>

## Table of Contents • Table des matières

### EDITORIAL • COMMENTARY

- 161 The pain of procedural pain management education in the emergency department  
*Ran D. Goldman*
- 
- 163 Palliative care in emergency medicine: A perennial skill with a new emphasis  
*Jennifer Hughes*
- 
- 165 What is the bed availability gap underlying chronic emergency department access block?  
*Peter A. Cameron*
- 
- 167 Delving into Delphis  
*Teresa M. Chan, Lalena M. Yarris, Susan Humphrey-Murto*
- 

### **CJEM Debate Series • Série De Débats JCMU**

- 170 Emergency physicians should not write orders for hospital admissions  
*Paul Pageau, Robin Clouston, Jo-Ann Talbot, Paul Atkinson*
- 

### Commentary • Commentaire

- 175 Managing the opioid epidemic: back to the basics with resuscitation  
*Orlando Hung, Ronald D. Stewart, Gemma Malpas, Sarah Phipps, David Hung*
- 

### FEATURE ARTICLE • ARTICLE PRINCIPAL

- 177 Emergency overcrowding and access block: A smaller problem than we think  
*Grant D. Innes, Marco L.A. Sivilotti, Howard Ovens, Kirstie McLelland, Adam Dukelow, Edmund Kwok, Anil Chopra, Ivy Cheng, Dan Kalla, David Mackinnon, Chad Kim Sing, Neil Barclay, Terry Ross, Aleks Chochinov*
-

## JUST THE FACTS • SEULEMENT LES FAITS

- 186 Diagnosis and Management of Non-Purulent Cellulitis in the Emergency Department  
*Krishan Yadav, Hans Rosenberg, Debra Eagles, Kathryn N. Suh*
- 

## PEDIATRIC • PÉDIATRIE

- 190 Firearm-related injuries among Canadian children and youth from 2006 to 2013: A CHIRPP study  
*Catherine M.J. Cox, Samuel A. Stewart, Katrina F. Hurley*
- 
- 195 System outcomes associated with a pediatric emergency department clinical decision unit  
*Derin Karacabeyli, Garth D Meckler, David K Park, Quynh Doan*
- 
- 199 Pain management practices surrounding lumbar punctures in children: A survey of Canadian emergency physicians  
*Naveen Poonai, Victoria Brzozowski, Antonia S. Stang, Amy L. Drendel, Philippe Boisclair, Michael Miller, Stuart Harman, Samina Ali, Pediatric Emergency Research Canada (PERC)*
- 
- 204 Association between ondansetron use and symptom persistence in children with concussions: A 5P substudy  
*Jocelyn Gravel, Kathy Boutis, Ken Tang, Miriam H. Beauchamp, Stephen B. Freedman, Alexander Sasha Dubrovsky, Isabelle Gagnon, Frank Momoli, Roger Zemek, on behalf of the Pediatric Emergency Research Canada (PERC) 5P study group*
- 

## PALLIATIVE • PALIATIF

- 211 Perceived barriers and facilitators to goals of care discussions in the emergency department: A descriptive analysis of the views of emergency medicine physicians and residents  
*Niran Argintaru, Kieran L. Quinn, Lucas B. Chartier, Jacques Lee, Paul Hannam, Erin O'Connor, Leah Steinberg, Howard Ovens, Melissa McGowan, Samuel Vaillancourt*
- 
- 219 Palliative and end-of-life care education in Canadian emergency medicine residency programs: A national cross-sectional survey  
*Jared Baylis, Devin R. Harris, Charlie Chen, Daniel K. Ting, Kevin Clark, Anthony Kwan, Skye Crawford, David Willisroft*
- 

## CLINICAL RESEARCH • RECHERCHE CLINIQUE

- 226 Yes, not now, or never: an analysis of reasons for refusing or accepting emergency department-based take-home naloxone  
*Andrew Kestler, Amanda Giesler, Jane Buxton, Gray Meckling, Michelle Lee, Garth Hunte, Jacob Wilkins, Dalya Marks, Frank Scheuermeyer*
- 
- 235 Procedural sedation by advanced care paramedics for emergency gastrointestinal endoscopy  
*Hana M. Wiemer, Michael B. Butler, Patrick C. Froese, Allan Lapierre, Chris Carriere, Glen R. Etsell, Dana Farina, Jennifer Jones, Jock Murray, Samuel G. Campbell*
- 
- 243 Understanding why older adults choose to seek non-urgent care in the emergency department: the patient's perspective  
*Donna Goodridge, James Stempien*
- 
- 249 Subjective sleep quality and its etiology in the emergency department  
*Jean-Marc Chauny, Jean Paquet, Julie Carrier, Gilles Lavigne, Martin Marquis, Alexis Cournoyer, Christiane Manzini, Raoul Daoust*
-

## QUALITY IMPROVEMENT • AMÉLIORATION DE LA QUALITÉ

- 253 Application of quality improvement analytic methodology in emergency medicine research: A comparative evaluation  
*Bruce Harries, Lyne Filiatrault, Riyad B. Abu-Laban*
- 
- 261 Quality improvement primer part 3: Evaluating and sustaining a quality improvement project in the emergency department  
*Lucas B. Chartier, Samuel Vaillancourt, Amy H. Y. Cheng, Antonia S. Stang*
- 
- 269 Attitudes of emergency department physicians and nurses toward implementation of an early warning score to identify critically ill patients: qualitative explanations for failed implementation  
*Blair L. Bigham, Teresa Chan, Steven Skitch, Alison Fox-Robichaud*
- 

## EDUCATION • ENSEIGNEMENT

- 274 Describing CCFP(EM) programs in Canada: A national survey of program directors  
*Avik Nath, Krishan Yadav, Jeffrey J. Perry*
- 
- 283 Bougie-assisted cricothyroidotomy: Delphi-derived essential steps for the novice learner  
*Alia Dharamsi, Sara Gray, Christopher Hicks, Jonathan Sherbino, Melissa McGowan, Andrew Petrosoniak*
- 
- 291 Ascertaining top evidence in emergency medicine: A modified Delphi study  
*Stephanie J. Bazak, Jonathan Sherbino, Suneel Upadhye, Teresa Chan*
- 

## CJEM JOURNAL CLUB • CLUB DE LECTURE JCMU

- 296 Is an IOTA of evidence enough?  
*Seth Nicholas Phillips Davis, Nina Di Nicola, Sophie Gosselin*
- 

## CLINICAL CORRESPONDENCE • CORRESPONDANCE CLINIQUE

- 299 A case of neuroleptic malignant syndrome with aripiprazole and fluoxetine  
*Tina Hu, Elise Hall*
- 
- 302 Ultrasound-guided erector spinae plane (ESP) block: A novel intervention for mechanical back pain in the emergency department  
*Yajai Apibunyopas*
- 

## HUMANITY • HUMANITÉ

- 306 Broken promise  
*Brian Deady*
- 

## LETTER • CORRESPONDANCE (ONLINE ONLY)

The empathy deficit in health care  
*Alicia Cundall*

---

## GLOBAL RESEARCH HIGHLIGHTS • FAITS MARQUANTS DE LA RECHERCHE MONDIALE

- 308 International Abstracts