

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

Volume 22 Issue 6

November 2020/novembre 2020



Inspiring excellence in emergency medical care



CAEP | ACMU



CAMBRIDGE
UNIVERSITY PRESS

Canadian Journal of Emergency Medicine Editorial Board

Editor-in-Chief

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

Andrew McRae, MD, PhD
University of Calgary, Canada

Deputy Editors

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

Shawn Mondoux, MSc, MD
McMaster University, Canada

Eddy Lang, MD, CM

University of Calgary, Canada

Catherine Patocka, MDCM, MHPE
University of Calgary, Canada

Managing Editor

Jennifer Brinkhurst, BAH
Ottawa, Canada

Andrew Petrosoniak, MD, MSc (MedEd)
University of Toronto, Canada

Assistant Managing Editor

Jacqueline Fraser, RNBN
Saint John, Canada

Naveen Poonai, MD, MSc
Western University, Canada

Social Media Editor

Hans Rosenberg, MD
University of Ottawa, Canada

Brian Steinhart, MD
University of Toronto, Canada

Associate Social Media Editor

Simon Huang, MD, MSc
Dalhousie University, Canada

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

Editor Emeritus

James Ducharme, MD
McMaster University, Canada

Rob Woods, MD, MMEd
University of Saskatchewan, Canada

Grant Innes, MD

University of Calgary, Canada

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

Decision Editors

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

Garth Dickinson, MD
University of Ottawa, Canada

Simon Berthelot, MD, MSc
Université Laval, Canada

Marcel Émond, MD, MSc
Université Laval, Canada

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

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

Alix Carter, MD, MPH
Dalhousie University, Canada

Mete Erdogan, PhD, MHI
Dalhousie University, Canada

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

Ran Goldman, MD
University of British Columbia, Canada

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

Sophie Gosselin, MD
McGill University, Canada

Robert S. Green, MD
Dalhousie University, Canada

Niranjan Kissoon, MD
University of British Columbia, Canada

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

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

David Lewis, MBBS
Dalhousie University, Canada

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

Kirk Magee, MD, MSc
Dalhousie University, Canada

Jeffrey Perry, MD, MSc
University of Ottawa, Canada

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

Roy Pursell, 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



Table of Contents • Table des matières

EDITORIAL • ÉDITORIAL

- 733 Breaking down the silos in simulation-based education: Exploring, refining, and standardizing
Andrew K. Hall, Erin E. Brennan, Rob Woods
-
- 735 Emergency department buprenorphine/naloxone: What we can achieve with system-level support and local champions
Jessica Moe, Jane A. Buxton
-

COMMENTARY • COMMENTAIRE

- 738 Going to the COVID-19 Gemba: Using observation and high reliability strategies to achieve safety in a time of crisis
Jennifer Thull-Freedman, Shawn Mondoux, Antonia Stang, Lucas B. Chartier
-
- 742 The future is in your hands – Handheld ultrasound in the emergency department
Rajiv S. Thavanathan, Michael Y. Woo, Greg Hall
-

JUST THE FACTS • SEULEMENT LES FAITS

- 745 Just the Facts: Diagnosis and management of rhabdomyolysis
Brit Long, Elisha Targonsky, Alex Koyfman
-
- 749 Just the Facts: Adverse events associated with immune checkpoint inhibitor treatment for cancer
Keerat Grewal, Laveena Munshi, Monika K. Krzyzanowska
-
- 753 Just the Facts: Risk stratifying non-traumatic back pain for spinal epidural abscess in the emergency department
Zoe Polsky, Shawn K. Dowling, W. Bradley Jacobs
-
- 756 Just the Facts: Ovarian torsion in the emergency department setting
Brit Long, Elisha Targonsky, Alex Koyfman
-
- 760 Just the Facts: Extracorporeal cardiopulmonary resuscitation for out-of-hospital cardiac arrest
Shannon M. Fernando, Brian Grunau, Daniel Brodie
-
- 764 Just the Facts: Postintubation sedation in the emergency department
Hans Rosenberg, Ariel Hendif, Erin Rosenberg
-

CAEP • ACMU

- 768 CAEP Position Statement: Emergency department management of people with opioid use disorder
Justin J. Koh, Michelle Klaiman, Isabelle Miles, Jolene Cook, Thara Kumar, Hasan Sheikh, Kathryn Dong, Aaron M. Orkin, Samina Ali, Elizabeth Shouldice
-

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

- 772 Is conservative management noninferior to interventional treatment for moderate to large primary spontaneous pneumothoraces?
Herman Johal, Andrew McRae, Greg Beller
-
- 774 Diagnosis of pulmonary embolism with D-dimer adjusted to clinical probability
Andrew Guy, Frank X. Scheuermeyer
-

SUBSTANCE USE DISORDER • TROUBLES LIÉS AUX SUBSTANCES

- 776 Clearing the air: A study of cannabis-related presentations to urban Alberta emergency departments following legalization
Matthew E. M. Yeung, Colin G. Weaver, Kevin Janz, Rebecca Haines-Saah, Eddy Lang
-
- 784 Multi-site intervention to improve emergency department care for patients who live with opioid use disorder: A quantitative evaluation
Patrick McLane, Ken Scott, Zainab Suleman, Karen Yee, Brian R. Holroyd, Kathryn Dong, S. Monty Ghosh, Josh Fanaeian, Jan Deol, Catherine Biggs, Eddy Lang, Buprenorphine/Naloxone in Emergency Departments Initial Project Team (Heather Hair, Marshall Ross, Rob Tanguay, Asha Olmstead, Andrew Fisher, Scott Fielding)
-

PEDIATRICS • PÉDIATRIE

- 793 Characteristics of vomiting as a predictor of intracranial injury in pediatric minor head injury
Jessica A. Harper, Terry P. Klassen, Robert Balshaw, Justin Dyck, Martin H. Osmond; for the Pediatric Emergency Research Canada Head Injury Study Group
-
- 802 Management of pediatric allergic reaction: Practice patterns of Canadian pediatric emergency physicians
Caitlin Prendergast, Amy C. Plint, Ken Tang, Tyrus Crawford, Gina Neto, Waleed Alqurashi; on behalf of the Pediatric Emergency Research Canada (PERC) Team
-

SIMULATION • SIMULATION

- 811 Relationship between ratings of performance in the simulated and workplace environments among emergency medicine residents
Nicholas Prudhomme, Michael O'Brien, Meghan M. McConnell, Nancy Dudek, Warren J. Cheung
-
- 819 Sharing is caring: How EM sim cases (EMSimCases.com) has created a collaborative simulation education culture in Canada
Kyla Caners, Jared Baylis, Christopher Heyd, Teresa Chan
-
- 822 Development of a national, standardized simulation case template
Jared Baylis, Christopher Heyd, Brent Thoma, Andrew K. Hall, Timothy Chaplin, Andrew Petrosoniak, Tamara McColl, Michael O'Brien, Jean-François Deshaies, Kyla Caners
-

EDUCATION • ENSEIGNEMENT

- 825 Development of a whiteboard video for managing trauma patients outside a tertiary trauma centre
Kealin Wong, Suzanne Beno, Alun Ackery
-
- 829 Resident selection for emergency medicine specialty training in Canada: A survey of existing practice with recommendations for programs, applicants, and references
Michael K. P. Hale, Jason R. Frank, Warren J. Cheung
-

LABORATORY • LABORATOIRE

- 836 Sensitivity of C-reactive protein cut-off values for pyogenic spinal infection in the emergency department
William T. Davis, Michael D. April, Sumeru Mehta, Brit Long, Gregory Boys, Steven Shroyer
-

ADMINISTRATION • ADMINISTRATION

- 844 Reducing preventable patient transfers from long-term care facilities to emergency departments: A scoping review
Kiran L. Grant, Daniel Dongjoo Lee, Ivy Cheng, G. Ross Baker
-
- 857 An environmental scan of wellness initiatives and programs at Canadian academic emergency medicine programs: How far have we come?
Rodrick Lim, Brittany Cameron, Sara Gray, Louise Rang, Kristine Van Aarsen
-
- 864 Throughput interventions to reduce emergency department crowding: A systematic review
Kiran L. Grant, Conrad J. Bayley, Zahra Premji, Eddy Lang, Grant Innes
-

CASE REPORTS • RAPPORTS DE CAS

- 875 Etizolam overdose in an eight-year-old boy
Parm Khakh, Alysha Mackenzie-Feder
-
- 877 Presumed respiratory syncytial virus and severe acute respiratory syndrome coronavirus-2 co-infection in a critically ill infant: Diagnostic uncertainty and emergency management
Brett Burstein, Marie-Astrid Lefebvre, Farhan Bhanji
-

GLOBAL RESEARCH HIGHLIGHTS • FAITS MARQUANTS DE LA RECHERCHE MONDIALE

- 880 Global Research Highlights

LETTERS • LETTRES (ONLINE ONLY)

Letter to the Editor: Letter in Response to “receiving Patients with Vital Signs Absent from Paramedics”
Gord McEachen

Response to Letter: “Receiving patients with vital signs absent from paramedics”
Brodie Nolan

Response to Letter: Damage control resuscitation initiated in the prehospital and transport setting: A systems approach to increasing access to blood transfusion
Chase Krook, Domhnall O'Dochartaigh, Doug Martin, Zoë Piggott, Ryan Deedo, Sarah Painter, Jennifer vanWerkhoven, Darcy McKay, Dennis Nesdoly, J.N. Armstrong

Emergency Physician Mental Health During the Subacute Phase of the COVID-19 Pandemic
Rodrick Lim, Huma Ali, Rachel Gagnier, Michelle Marlborough, Sandra Northcott

New challenges and mitigation strategies for resident selection during the coronavirus disease pandemic
Hans Rosenberg, Avik Nath, Jennifer Leppard, Shahbaz Syed

Letter to the Editor: Enhanced virtual care in the emergency department as a strategy to safely manage the COVID-19 surge
Sameer Masood, Lucas B. Chartier

CORRIGENDUM (ONLINE ONLY)

Reducing preventable patient transfers from long-term care facilities to emergency departments: A scoping review – CORRIGENDUM
Kiran L. Grant, Daniel Dongjoo Lee, Ivy Cheng, G. Ross Baker

ADDENDUM (ONLINE ONLY)

CAEP, CCCS, and CNSF Position Statement – Management of devastating brain injuries in the emergency department: Enhancing neuroprognostication and maintaining the opportunity for organ and tissue donation – ADDENDUM
Andrew Healey, Murdoch Leeies, Carmen Hrymak, Alecs Chochinov, Brian Grunau, Bojan Paunovic, Jeanne Teitelbaum, Lindsay C. Wilson, Sam D. Shemie

ERRATUM (ONLINE ONLY)

Burnout and depression among Canadian emergency physicians – ERRATUM
Kerstin de Wit
