

# Canadian Association of Emergency Physicians 2020 - Selected Alberta Abstracts





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**CJEM-CAEP 2020 Abstracts:** <http://digitaleditions.sheridan.com/publication/?i=659680>

### **Plenary Oral Presentations**

PL01: Creation of a risk scoring system for emergency department patients with acute heart  
Failure

[Abstract Link](#)

I. Stiell, MD, MSc, J. Perry, MD, MSc, C. Clement, S. Sibley, MD, **A. McRae**, MD, **B. Rowe**, MD, B. Borgundvaag, MD, S. McLeod, MSc, L. Mielniczuk, MD, J. Dreyer, MD, J. Yan, BSc, MD, MSc, E. Brown, BSc, J. Brinkhurst, BA, M. Nemnom, MSc, M. Taljaard, PhD, University of Ottawa, Department of Emergency Medicine, Ottawa, ON

Keywords: heart failure, risk scale, safety

### **Oral Presentations**

LO03: Prospective comparative evaluation of the ESC 1-hour and a 2-hour rapid diagnostic algorithm for myocardial infarction using high-sensitivity troponin-T

[Abstract Link](#)

**J. Andruchow**, MD CM, MSc, T. Boyne, MD, MSc, I. Seiden-Long, PhD, D. Wang, MSc, S. Vatanpour, PhD, **G. Innes**, MD, MSc, **A. McRae**, MD, PhD, University of Calgary, Calgary, AB

Keywords: high-sensitivity troponin, myocardial infarction, rapid diagnostic algorithms

LO06: Development of practice recommendations for ED management of syncope by mixed Methods

[Abstract Link](#)

V. Thiruganasambandamoorthy, MSc, M. Taljaard, PhD, N. Hudek, PhD, J. Brehaut, PhD, B. Ghaedi, MSc, P. Nguyen, BSc, M. Sivilotti, MD, MSc, **A. McRae**, MD, PhD, J. Yan, MD, MSc, R. Ohle, MD, C. Fabian, MD, N. Le Sage, MD, PhD, E. Mercier, MD, MSc, M. Hegdekar, MD, P. Huang, MD, M. Nemnom, MSc, A. Krahn, MD, P. Archambault, MD, J. Presseau, PhD, I. Graham, PhD, **B. Rowe**, MD, MSc, University of Ottawa, Department of Emergency Medicine, Ottawa, ON

Keywords: practice recommendation, risk-stratification, syncope

LO07: Procainamide for the acute management of atrial fibrillation and flutter in the emergency department: a systematic review

[Abstract Link](#)

F. Tran, BN, D. Junqueira, MSc, PhD, PharmD, M. Tan, MSc, BScOT, MSc, MLIS, **B. Rowe**, MD, MSc, University of Alberta, Edmonton, AB

Keywords: atrial fibrillation, cardioversion, procainamide

LO09: Role of hospitalization for detection of serious adverse events among emergency department patients with syncope: a propensity-score matched analysis of a multicenter prospective cohort

[Abstract Link](#)

R. Krishnan, MSc, M. Mukarram, MPH, MBBS, B. Ghaedi, MSc, M. Sivilotti, MD, MSc, N. Le Sage, MD, PhD, J. Yan, MD, MSc, P. Huang, MD, M. Hegdekar, MD, E. Mercier, MD, MSc, M. Nemnom, MSc, L. Calder, MD, MSc, **A. McRae**, MD, PhD, **B. Rowe**, MD, MSc, G. Wells, PhD, V. Thiruganasambandamoorthy, MSc, MBBS, Ottawa Hospital Research Institute, Ottawa, ON

Keywords: Canadian Syncope Risk Score, hospitalization, syncope

LO10: Low high-sensitivity troponin concentrations identify low-risk chest pain patients unlikely to benefit from further risk stratification

[Abstract Link](#)

**J. Andruchow**, MD CM, MSc, T. Boyne, MD, MSc, **G. Innes**, MD, MSc, S. Vatanpour, PhD, I. Seiden-Long, PhD, D. Wang, MSc, **E. Lang**, MD, **A. McRae**, MD, PhD, University of Calgary, Calgary, AB

Keywords: high-sensitivity troponin, myocardial infarction, risk stratification

LO17: Major adverse cardiac events in patients ruled-out by a validated high-sensitivity troponin algorithm for acute myocardial infarction

[Abstract Link](#)

C. O’Rielly, BSc, **J. Andruchow**, MD, **A. McRae**, MD, MSc, PhD, University of Calgary, Calgary, AB

Keywords: chest pain, high-sensitivity cardiac troponin, rapid rule out algorithm

LO25: Characteristics of frequent users of emergency departments in Alberta and Ontario, Canada: an administrative data study

[Abstract Link](#)

R. Rosychuk, BSc, MSc, PhD, A. Chen, BSc, MSc, S. Fielding, BSc, MBA, X. Hu, BSc, MSc, PhD, **P. McLane**, BA, PhD, MA, **A. McRae**, BSc, MD, PhD, M. Ospina, BSc, MSc, PhD, University of Alberta, Edmonton, AB

Keywords: administrative data, frequent users

LO26: The mean abnormal response rates of laboratory tests ordered in the emergency department: shooting percentage insights from a multicentre study

E. Enwere, PhD, D. Wang, MSc, M. Guo, MSc, C. Naugler, MD, MSc, **E. Lang**, MD, University of Calgary, Calgary, AB

Keywords: informatics, laboratory test, mean abnormal response rate

LO28: Innovating for overcrowding: analyzing the impact of a novel emergency physician role on patient flow

[Abstract Link](#)

L. Green-Harrison, BSc, Z. Polsky, MD, T. Fung, PhD, **E. Lang**, MD, **C. Patocka**, MD, MHPE, University of Alberta, Edmonton, AB

Keywords: flow, overcrowding, throughput

LO29: Interventions at triage to improve emergency department throughput: a systematic Review

[Abstract Link](#)

K. Grant, C. Bayley, BSc, **E. Lang**, MDCM, **G. Innes**, MD, University of Alberta, Edmonton, AB

Keywords: crowding, throughput, triage

LO30: Optimizing diagnostic testing processes to improve emergency department throughput: a systematic review

[Abstract Link](#)

K. Grant, C. Bayley, BSc, **E. Lang**, MDCM, **G. Innes**, MD, University of Toronto, Toronto, ON

Keywords: crowding, point-of-care testing, throughput

LO42: A systematic review of short-term use of therapeutic opioids for children and future opioid use disorders

[Abstract Link](#)

**S. Ali**, MD CM, M. Afzalzada-Ahrari, BA, M. Dyson, PhD, D. DaRosa, **K. Dong**, MD, MSc, A.

Drendel, MSc, DO, L. Hartling, PhD, University of Alberta, Edmonton, AB

Keywords: narcotics, opioid misuse, opioid use disorder

LO43: First Nations emergency care visits in Alberta: Descriptive results of a retrospective cohort study

[Abstract Link](#)

**P. McLane**, BA, PhD, MA, C. Barnabe, MD, MSc, **B. Holroyd**, MBA, MD, A. Colquhoun, MSc, PhD,

L. Bill, BScN, K. Fitzpatrick, MSc, K. Rittenbach, PhD, C. Healy, BSc, H. Bull, M. Crawler, L. Firth,

T. Jacobs, D. Twin, R. Rosychuk, MSc, PhD, University of Alberta, Edmonton, AB

Keywords: First Nations

LO54: Emergency department prevalence of intracranial aneurysm on computed tomography angiography (EPIC-ACT)

[Abstract Link](#)

B. Sheppard, MD, BSc, G. Beller, MD, BA, C. O’Rielly, BS, **Charles Wong**, MD, BHSc, University of Calgary, Calgary, AB

Keywords: aneurysm, angiography, subarachnoid

LO71: The effect of boarding time in ED on length of stay for psychiatric patients

[Abstract Link](#)

D. Lane, PhD, **E. Lang**, MD, L. Roberts, MD, MSc, University of Saskatchewan, Saskatoon, SK

Keywords: boarding time, length of stay, psychiatry

LO86: Lack of association between four biomarkers and the presence of persistent post-concussion symptoms after a mild traumatic brain injury

[Abstract Link](#)

N. Le Sage, MD, PhD, N. Le Sage, MD, PhD, J. Frenette, PhD, J. Chauny, MD, MSc, S. Berthelot, MD, MSc, P. Archambault, MD, MSc, J. Perry, MD, MSc, J. Lee, MD, MSc, **E. Lang**, MD, MSc, **A. McRae**, MD, PhD, X. Neveu, MSc, P. Tardif, MSc, V. Boucher, MSc, É. Mercier, MD, MSc, M. Émond, MD, MSc, Université Laval, Quebec City, QC

Keywords: biomarkers, mild traumatic brain injury, persistent post-concussion symptoms

LO88: S100B serum protein level for the detection of clinically significant intracranial hemorrhage in patients with mild traumatic brain injury: a prospective cohort study

[Abstract Link](#)

J. Blais-L'Écuyer, MD, J. Blais-L'Écuyer, MD, É. Mercier, MD, MSc, P. Tardif, MSc, P. Archambault, MD, MSc, J. Chauny, MD, MSc, S. Berthelot, MD, MSc, J. Frenette, PhD, J. Perry, MD, MSc, I. Stiell, MD, MSc, M. Émond, MD, MSc, J. Lee, MD, MSc, **E. Lang**, MD, MSc, **A. McRae**, MD, MSc, V. Boucher, MSc, N. Le Sage, MD, PhD, Université Laval, Quebec City, QC

Keywords: biomarker, head computed tomography, mild traumatic brain injury

### **Moderated Poster Presentation**

MP01: Just another day on the job: Workforce experience with violence in emergency departments and urgent care centres

[Abstract Link](#)

R. Tarraf, MSc, PhD, M. Stiphout, MSc, A. Fraser, MPH, **H. Hair**, MBA, **E. Lang**, MD, **B. Holroyd**, MBA, MD, S. Hastings, MSc, PhD, Alberta Health Services, Calgary, AB

Keywords: lived experience, workforce safety, Workforce-directed violence

MP03: Clearing the air: A retrospective cohort study of cannabis-related harms in urban Alberta emergency departments following legalization

[Abstract Link](#)

M. Yeung, C. Weaver, BSc, **E. Lang**, MD, R. Saah-Haines, PhD, K. Janz, MD, University of Calgary, Calgary, AB

Keywords: cannabis, legalization, policy

MP07: Identification of barriers and facilitators for implementation of the Canadian Syncope Risk Score

[Abstract Link](#)

N. Hudek, PhD, **B. Rowe**, MD, MSc, J. Brehaut, PhD, B. Ghaedi, MSc, P. Nguyen, BSc, J. Presseau, PhD, **A. McRae**, MD, PhD, J. Yan, MD, MSc, R. Ohle, MD, C. Fabian, MD, N. Le Sage, MD, PhD, E. Mercier, MD, MSc, M. Hegdekar, MD, P. Archambault, MD, M. Sivilotti, MD, MSc, V. Thiruganasambandamoorthy, MSc, Ottawa Hospital Research Institute, Ottawa, ON

Keywords: knowledge translation, risk-stratification, syncope

MP08: Using administrative data to explore emergency department management of patients presenting with acute atrial fibrillation/flutter: Is Shock-First a more effective strategy than Drug-Shock?

[Abstract Link](#)

**B. Rowe**, MD, B. Bohlouli, MD, C. Villa-Roel, MD, University of Alberta, Edmonton, AB

Keywords: atrial fibrillation, cardioversion, decision-making

MP10: Does arrival pain severity predict stone characteristics or short-term outcomes in emergency department patients with acute renal colic?

[Abstract Link](#)

G. Splinter, BSc, K. Gourlay, BSc, **J. Hayward**, MD, MPH, **G. Innes**, MD, MSc, University of



Alberta, Edmonton, AB

Keywords: pain, renal colic, stone

MP15: Predictors of emergency department opioid use and variability of prescribing practices in a large multicenter Canadian cohort

[Abstract Link](#)

T. Lau, MD, BSc(Pharm), **J. Hayward**, MD, **G. Innes**, MD, MHSc, University of Calgary, Calgary, AB

Keywords: acute pain, emergency department, opioid

MP17: Evaluation of a national competency-based assessment system in emergency medicine: A CanDREAM study

[Abstract Link](#)

B. Thoma, MD, MSc, MA, A. Hall, MD, MMed, K. Clark, MD, N. Meshkat, MD, MHSc, W. Cheung, MD, MMed, P. Desaulniers, MD, C. ffrench, MD, A. Meiwald, MD, MEd, BN, C. Meyers, MD, **C. Patocka**, MDCM, MHPE, L. Beatty, MD, T. Chan, MD, MHPE, University of Saskatchewan, Saskatoon, SK

Keywords: competency based medical education, learning analytics

MP23: Mixed methods analysis of an automated e-mail audit and feedback intervention for fostering emergency physician reflection

[Abstract Link](#)

W. Kennedy, BSc, D. Andruchow, BSc, **S. Dowling**, MD, K. Lonergan, BSc, T. Rich, MD, **C. Patocka**, MD, MHPE, University of Calgary, Calgary, AB

Keywords: feedback methods, innovations in EM education, mixed methods

MP29: Using the Calgary audit and feedback framework to get the most out of physician practice reports

[Abstract Link](#)

**S. Dowling**, MD, A. Peterson, BSc, **C. Wong**, MD, MSc, L. Cooke, MD, C. Bond, MD, University of Calgary, Calgary, AB

Keywords: innovations in EM education, physician practice reports, practice improvement

MP30: Reducing unnecessary oral contrast in patients undergoing enhanced abdomen/pelvis computed tomography in the emergency department: A multicentre project

[Abstract Link](#)

**S. Dowling**, MD, H. Johal, MD, R. Morris, MD, D. Nobbee, MD, D. Wang, MSc, **E. Lang**, MD, MSc, University of Calgary, Calgary, AB

Keywords: computed tomography, oral contrast, quality improvement and patient safety

MP31: Optimizing ketorolac dosing by leveraging computerized order entry

[Abstract Link](#)

N. Pompa, MD, C. Bond, MD, D. Wang, MSc, **S. Dowling**, MD, University of Calgary, Calgary, AB

Keywords: computerized provider order entry, ketorolac, quality improvement and patient safety

MP32: Using physician practice reports and feedback sessions to reduce low value care in Bronchiolitis

[Abstract Link](#)

**S. Dowling**, MD, I. Gjata, BSc, N. Solbak, BSc, C. Weaver, BSc, K. Smart, MD, R. Buna, MD, A. Stang, MD, University of Calgary, Calgary, AB

Keywords: bronchiolitis, audit and feedback, quality improvement and patient safety

MP33: Provincial spread of buprenorphine/naloxone initiation in emergency departments for opioid agonist treatment: a quality improvement initiative

[Abstract Link](#)

**P. McLane**, BA, PhD, MA, K. Scott, MBA, MA, K. Yee, MPH, MSc, Z. Suleman, MPH, **K. Dong**, MD,

**E. Lang**, MD, S. Fielding, MBA, J. Deol, MD, J. Fanaeian, MD, A. Olmstead, MD, M. Ross, MD, K. Low, MHA, **H. Hair**, MBA, C. Biggs, BSc, M. Ghosh, MD, MSc, R. Tanguay, BSc, MD, **B. Holroyd**, MBA, MD, Emergency Strategic Clinical Network, Edmonton, AB

Keywords: opioid agonist treatment, opioids

MP50: Vaping, tobacco and cannabis among patients presenting to the emergency department: a cross-sectional study

[Abstract Link](#)

K. Zhou, BMSc, D. Junqueira, MSc, PhD, PharmD, S. Couperthwaite, BSc, J. Meyer, BSc, **B. Rowe**, MD, MSc, University of Alberta, Edmonton, AB

Keywords: cannabis, tobacco, vaping

MP59: Exploring adverse events in boarded psychiatric patients in Calgary zone adult emergency departments

[Abstract Link](#)

D. Major, BSc, **S. Vandenberg**, MD, MSc, University of Calgary, Calgary, AB

Keywords: adverse event, boarding, psychiatric emergency

### **Poster Presentation**

P003: Productivity patterns in early-career physicians: a multi-center analysis of administrative emergency department operations data

[Abstract Link](#)

**C. Wong**, MD, S. Lu, D. Wang, MSc, **S. Dowling**, MD, **E. Lang**, MD, University of Calgary, Calgary, AB

Keywords: efficiency, metrics, productivity

P020: Development and early experience with the Foothills Medical Center Pulmonary Embolism Response Team (PERT)

[Abstract Link](#)

M. Szava-Kovats, MD, **J. Andruchow**, MD, P. Boiteau, MD, E. Herget, MD, K. Solverson, MD, University of Calgary, Calgary, AB

Keywords: pulmonary embolism, quality improvement and patient safety, thrombosis

P069: Implementing supervised consumption service access for emergency department

Patients

[Abstract Link](#)

N. Lam, MD, R. Rosenblum, MD, T. Kaban, K. Dmitrienko, MA, MHSc, D. Oczkowski, **K. Dong**, MD, MSc, University of Alberta, Edmonton, AB

Keywords: overdose, quality improvement and patient safety, supervised consumption

P081: The summer of the e-scooter: a multicenter evaluation of the emergency department impact of rentable motorized scooters in Calgary

[Abstract Link](#)

A. Islam, BSc, K. Koger, **S. Vandenberg**, MD, MSc, D. Wang, **E. Lang**, MD, University of Calgary, Calgary, AB

Keywords: ambulance, e-scooter, injury

P086: Violence prevention strategies in emergency departments: Key informant interviews

[Abstract Link](#)

M. Stiphout, MSc, R. Tarraf, MSc, PhD, A. Fraser, MPH, **H. Hair**, MBA, **E. Lang**, MD, **B. Holroyd**, MBA, MD, S. Hastings, MSc, PhD, Alberta Health Services, Calgary, AB

Keywords: violence in healthcare, violence prevention

P092: Caregiver perspectives on children's functional outcomes following fracture: a qualitative study

[Abstract Link](#)

S. Golden-Plotnik, BA, MD, **S. Ali**, MDCM, N. Poonai, MD, MSc, A. Drendel, MSc, DO, M. Mackenzie, MSc, BScN, V. Michael, MD, PhD, University of Alberta, Edmonton, AB

Keywords: children, fractures, functional outcomes

P117: A multicenter analysis of an emergency physician lead on department flow and the provider experience

[Abstract Link](#)

K. Crowder, BN, BSc, MD, E. Domm, MN, PhD, BScN, R. Lipp, BScN, O. Robinson, BSc, S. Vatanpour, MSc, PhD, D. Wang, MSc, **E. Lang**, MD, University of Calgary Cumming School of Medicine, Calgary, AB

Keywords: emergency physician lead, emergency medical services park, provider experiences

P132: Optimizing a physician surge protocol to address emergency department wait times during times of increased patient demand

[Abstract Link](#)

T. Bhate, BSc, MD, MHSc, **S. Dowling**, BA, MD, N. Collins, MD, University of Calgary, Calgary, AB

Keywords: emergency department flow, emergency department staffing, quality improvement and patient safety