Medicine
Books and Journals from Cambridge University Press

The Cambridge Medicine programme focuses its book publishing in a defined set of core clinical areas with our great strength in the clinical brain sciences. Other specialties of significant focus include reproductive medicine/obstetrics and gynaecology, anaesthesia and critical care, emergency medicine and pathology.

Our journals programme covers a broad spectrum of medical disciplines including emergency and disaster medicine, epidemiology and infectious diseases, biomedical science, genetics, nutrition, mental health and psychiatry, and neuroscience.

We partner with many learned societies including The Society for Healthcare Epidemiology of America, and the Neuroscience Education Institute, and the Royal College of Obstetricians and Gynaecologists.

For further details visit: cambridge.org/core-medicine
For more information visit: www.cambridge.org
Table of Contents

GUEST EDITORIAL
Violation of the Global Ceasefire in Nagorno-Karabagh: A Viral Amplification of Aggression ............... 129
Sharon Chekijian, MD, MPH; Alexander Bazarchyan, MD, PhD

ORIGINAL RESEARCH
DISASTER HEALTH AND MEDICINE
Prevalence of COVID-19 IgG Antibodies in a Cohort of Municipal First Responders ......................... 131
Sarayna S. McGuire, MD; Aaron B. Klissen, MD, MA; John Heywood, MA; Matthew D. Szajnjokryer, MD, PhD

Hemodialysis Clinics in Flood Zones: A Case Study of Hurricane Harvey ........................................... 135
Rebecca Kaiser, BA; Ibraheem M. Karaye, MD, DrPH, MPH; Temitope Olokunlade; Tracy Anne Hammond, PhD;
Daniel W. Golberg, PhD; Jennifer A. Horney, PhD, MPH, CPH

Validity of the National Health Security Preparedness Index as a Predictor of Excess COVID-19 Mortality ....... 141
Mark E. Keim, MD, MBA; Alex P. Llocoio

Impact of Lockdown due to COVID-19 on the Modalities of Intoxicated Patients Presenting to the Emergency Room ............................................................ 145
Manar M. Fayed, MD; Asmaa F. Sharif, MD

Roberto Barcala-Furelos, PhD; Cristian Abelairas-Gómez, PhD; Alejandra Alonso-Calvete, PE; Francisco Cano-Noguera, PhD;
Aida Carballo-Fazanes, PE; Santiago Martínez-Isasi, PhD; Antonio Rodríguez-Núñez, PhD, MD

EMERGENCY MEDICAL SERVICES
Prehospital Transfusion of Red Blood Cells and Plasma by an Urban Ground-Based Critical Care Team ........... 170
Karoline Sætre Michalsen, MD; Leif Rognås, MD, PhD; Mads Vandborg, MD; Christian Erikstrup, Professor;
Christian Fenger-Eriksen, MD, PhD

Blood Glucose Levels Combined with Triage Revised Trauma Score Improve the Outcome Prediction in Adults and in Elderly Patients with Trauma ...................................................... 175
Marcello Covino; Raffaella Zaccaria; Maria Grazia Boci; Luigi Carbone; Enrico Torelli; Mariella Fuerlo; Andrea Piccioni;
Michele Santoro; Claudio Sandroni; Francesco Franceschi

Mismatches Between the Number of Installed Automated External Defibrillators and the Annual Rate of Automated External Defibrillator Use Among Places ................................................................. 183
Je Hyoek Oh, MD, PhD; Gyu Chong Cho, MD, MD, PhD; Seung Mok Ryoo, MD, PhD; So Hyun Han, PhD; Seon Hye Woo, MD, PhD;
Yong Soo Jang, MD, PhD; Youngiuk Cho, MD, PhD; Minseob Sim, MD, PhD; Oh Hyun Kim, MD, PhD

Bag-Valve-Mask versus Laryngeal Mask Airway Ventilation in Cardiopulmonary Resuscitation with Continuous Compressions: A Simulation Study ............................................................ 189
Zerrin Defne Dundar, MD; Mustafa Kursat Ayramci, MD; Sedat Kocak, MD; Abdullah Sadik Giriggin, MD
### Systematic Review

**Measuring the Masses: The Current State of Mass-Gathering Medical Case Reporting (Paper 1)**

Sheila Turris, RN, BHS, MSN, PhD; Adam Lund, BSc, MD, MEd, FRCP; Matthew Brendan Munn, MD, MPhil, CCFP(EM-FPA), DA(SA); Elizabeth Chasmar, BAsc; Christopher W. Callaghan, BSc; Jamie Ranse, RN, PhD; Adam Lund, BSc, MD, MEd, FRCPC (Emergency)

**Measuring the Masses: Domains Driving Data Collection and Analysis for the Health Outcomes of Mass Gatherings (Paper 3)**

Sheila Turris, RN, BHS, MSN, PhD; Adam Lund, BSc, MD, MEd, FRCP; Matthew Brendan Munn, MD, MPhil, CCFP(EM-FPA), DA(SA); Elizabeth Chasmar, BAsc; Haddon Rabb, BSc, RN; Christopher W. Callaghan, BSc; Jamie Ranse, RN, PhD; Alison Hutton, RN, PhD; Adam Lund, BSc, MD, MEd, FRCPC (Emergency)

**Measuring the Masses: A Proposed Template for Post-Event Medical Reporting (Paper 4)**

Sheila Turris, RN, BHS, MSN, PhD; Haddon Rabb, BSc, RN; Elizabeth Chasmar, BAsc; Matthew Brendan Munn, MD, MPhil, CCFP(EM-FPA), DA(SA); Christopher W. Callaghan, BSc; Alison Hutton, RN, PhD; Jamie Ranse, RN, PhD; Adam Lund, BSc, MD, MEd, FRCPC (Emergency)

**Measuring the Masses: Mass-Gathering Medical Case Reporting, Conceptual Modeling – The DREAM Model (Paper 5)**

Adam Lund, BSc, MD, MEd, FRCP; Sheila Turris, RN, BHS, MSN, PhD; Haddon Rabb, BSc, RN; Matthew Brendan Munn, MD, MPhil, CCFP(EM-FPA), DA(SA); Elizabeth Chasmar, BAsc; Jamie Ranse, RN, PhD; Alison Hutton, RN, PhD

### Case Report

**Community-Based First Responder Network in Rural Thailand: A Case Study of Out-of-Hospital Cardiac Arrest**

Ratrawee Pattanarattanamolee; Rujeewan Yomstreeken Sanglun; Shinji Nakahara

**Analysis of Emergency Medical Rescue in the “8–12” Tianjin Port Heavy Fire Explosion Accident**

Wenlong Dong; Jie Jin; Ming Lu; Hai Ding; Qi Li; Haojun Fan; Shike Hou; Bin Fan

### Letters to the Editor

**Measuring the Masses: Understanding Health Outcomes Arising from Mass Gatherings, Reporting Gaps, and Recommendations (Paper 2)**

Sheila Turris, RN, BHS, MSN, PhD; Haddon Rabb, BSc, RN; Matthew Brendan Munn, MD, MPhil, CCFP(EM-FPA), DA(SA); Elizabeth Chasmar, BAsc; Christopher W. Callaghan, BSc; Jamie Ranse, RN, PhD; Adam Lund, BSc, MD, MEd, FRCPC (Emergency)

**COVID-19 and Hurricanes: The Impact of Natural Disasters during a Pandemic in Honduras, Central America**

Lyocien I. Zambrano; Irzel Carolina Puentes-Barabona; Karla Iveth Henríquez-Marquez; Walter O. Vásquez-Bonilla; Manuel Sierra; Fausto Muñoz-Lara; Camila Luna; D. Katterine Bonilla-Aldana; Alfonso J. Rodríguez-Morales