Epidemiology and Infection publishes original reports and reviews on all aspects of infection in humans and animals. Particular emphasis is given to the epidemiology, prevention and control of infectious diseases. The field covered is broad and includes the zoonoses, tropical infections, food hygiene, vaccine studies, statistics and the clinical, social and public health aspects of infectious disease. Papers covering microbiology and immunology, which have an epidemiological relevance, are part of this broad field. Papers come from medical and veterinary scientists worldwide. It has become the key periodical in which to find the latest reports on recently discovered infections and new technology. For those concerned with policy and planning for the control of infections, the papers on mathematical modelling of epidemics caused by historical, current and emergent infections, will be of particular value.

Price information
is available at: http://journals.cambridge.org/hyg

Free email alerts
Keep up-to-date with new material – sign up at http://journals.cambridge.org/alerts

For free online content visit: http://journals.cambridge.org/hyg

Epidemiology and Infection is available online at: http://journals.cambridge.org/hyg

To subscribe contact Customer Services in Cambridge:
Phone +44 (0)1223 326070
Fax +44 (0)1223 325150
Email journals@cambridge.org

in New York:
Phone +1 (845) 353 7500
Fax +1 (845) 353 4141
Email subscriptions_newyork@cambridge.org
# Table of Contents

## Editorial

**A Long Night in the Emergency Department during the Baltimore, Maryland (USA) Riots**

*J. Lee Jenkins, MD, MSc, FACEP; Missy Mason, RN, MBA*

## Original Research

### Disaster Health

**Mental Well-being Considerations in Preparation for Disaster Health Care: Learning From Deployment.**

*Tytti H. Mäkinen, RN, MSc; Sari M. Miettinen, PhD; W. George Kernohan, BS; PhD*

**Disaster Preparedness in Home-based Primary Care: Policy and Training.**

*Maria L. Claver, PhD; Tamar Wyte-Lake, DPT; Aram Dobalian, PhD*

**Medical and Disaster Preparedness of US Marathons**

*Joshua Glick, MD; Jeffrey Rixe, MD; Nancy Sparkeland, BA; Jodi Brady, MD; Matthew Silvis, MD; Robert P. Olympia, MD*

**Quantitative Evaluation for Uncertainty of Information About Patients' Injury Severity in a Hospital Disaster: A Simulation Study Using Shannon's Information Theory.**

*Yasuhiko Ajimi, MD, DMSc; Masaru Sasaki, MD; Yasuyuki Uchida, MD; Masayasu Gakumazawa, MD; Katsunori Sasaki, MD; Takashi Fujita, MD, DMSc; Tetsuya Sakamoto, MD, PhD*

**Impact of a Hurricane Shelter Viral Gastroenteritis Outbreak on a Responding Medical Team.**

*Joshua B. Gaither, MD; Rianne Page, MD; Caren Prather, NP; Fred Paavola, RP; Andrew L. Garrett MD, MPH*

**Emergency Food Supplies in Food Secure Households**

*Devon L. Golem, PhD, RD, LD; Carol Byrd-Bredbenner, PhD, RD, FAND*

**Factors Associated with Discussion of Disasters by Final Year High School Students: An International Cross-sectional Survey**

*Tudor A. Codreanu, MD, MSc(Med), MSc(DisMed); Antonio Celenza, MClinED, FACEM, FCEM; Ali A. Rahman Alabdulkarim, MD*

**Use of Community Assessments for Public Health Emergency Response (CASPERs) to Rapidly Assess Public Health Issues — United States, 2003-2012**

*Tesfaye M. Bayleyegn, MD; Amy H. Schnall, MPH; Shimere G. Ballou, MPH; David F. Zane, MS; Sherry L. Barres, DVM; Rebecca S. Noe, MPH; Amy F. Wolkin, DrPH*

## Emergency Medical Services

**Does the Implementation of an Advanced Life Support Quick Response Vehicle (QRV) in an Integrated Fire/EMS System Improve Patient Contact Response Time?**

*Dustin W. Anderson, MD, NREMTP; Harinder S. Dhindsa, MD, MPH, MBA, FACEP, FAAEM; Wen Wan, PhD; David Salot, NREMTP*

**Prehospital Naloxone Administration as a Public Health Surveillance Tool: A Retrospective Validation Study**

*Heather A. Lindstrom, PhD; Brian M. Clemency, DO, MBA; Ryan Snyder, MD; Joseph D. Consiglio, PhD; Paul R. May, MA; Ronald M. Moscati, MD*
Impact of a Two-step Emergency Department Triage Model with START, then CTAS, on Patient Flow During a Simulated Mass-casualty Incident .......................................................... 390
James S. Lee, MD; Jeffrey M. Franc, MD, MSc, EMDM

Needle Thoracostomy for Patients with Prolonged Transport Times: A Case-control Study ..................... 397
Lori Weichenthal, MD, FACEP; Desiree Hansen Crane, DO; Luke Rand, DO; Conal Roche, MD

HUMANITARIAN RESPONSE
Pneumonia Prevention during a Humanitarian Emergency: Cost-effectiveness of Haemophilus Influenzae Type B Conjugate Vaccine and Pneumococcal Conjugate Vaccine in Somalia ............... 402
Lisa M. Gargano, MPH, PhD; Rana Hajjeh, MD; Susan T. Cookson, MD, MPH

The Development of a Humanitarian Health Ethics Analysis Tool .......................................................... 412
Veronique Fraser, RN, MSc; Matthew R. Hunt, PT, PhD; Sonya de Laat, MA; Lisa Schwartz, PhD

CASE REPORT
Maxillofacial Injury — Not Always a Difficult Airway ................................................................. 421
John Glasheen, MB, BCh, BAO, MScEMS; David Hennelly, MS:EMS; Stephen Cusack, MB, BAO, BC6

SPECIAL REPORT
Prolonged Living as a Refugee from the Area Around a Stricken Nuclear Power Plant Increases the Risk of Death ........................................................................................................... 425
Reichiro Tanaka, MD

BRIEF REPORT
Medication Administration in Critical Care Transport of Adult Patients with Hypoxemic Respiratory Failure ................................................................. 431
Susan R. Wilcox, MD; Mark S. Sutia, BS, RRT, NRP, FP-C; Heather Waden, RN, MSN, CCNS, CCRN, CFRN, CEN, EMT; Susan J. McGahn, MSN, CCRN, CEN, EMT; Michael Frakes, APRN, CCNS, CFRN, CCRN, EMTP; Suzanne K. Wedel, MD; Jeremy B. Richards, MD
Aims and Scope: The mission of Prehospital and Disaster Medicine (PDM) is the distribution of information relevant to the practice of out-of-hospital and in-hospital emergency medical care, disaster health, and public health and safety. PDM provides an international forum for the reporting and discussion of scientific studies, both quantitative and qualitative, that have relevance to the above practices. The major objectives are: (1) the improvement of the types and quality of the care delivered to patients with perceived medical emergencies and to victims of multi-casualty accidents or disasters, including the public health and safety aspects of such events; and (2) the prevention and/or mitigation of the occurrence of such events and of the effects of these events upon the human population and environment.

Editorial Office: Prehospital and Disaster Medicine, 3330 University Avenue, Suite 130, Madison, Wisconsin 53705, USA. Telephone: (+1) (608) 819-6604; Facsimile (+1) (608) 819-6055; E-mail: pdm@wadem.org

Publishing, Production, and Advertising Office: Cambridge University Press, 32 Avenue of the Americas, New York, NY 10013-2473, United States; USAAdSales@cambridge.org.

Subscription Offices: (for USA, Canada, and Mexico) Cambridge University Press, 32 Avenue of the Americas, New York, NY 10013-2473, United States; (for UK and elsewhere) Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU, UK.

2015 Subscription Information: Prehospital and Disaster Medicine (Print ISSN 1049-023X; Electronic ISSN 1945-1938) is published bimonthly in the months of February, April, June, August, October, and December by Cambridge University Press, 32 Avenue of the Americas, New York, NY 10013-2473, United States/Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU, UK for the World Association for Disaster and Emergency Medicine. 2014 Annual subscription rates: Institutions print and electronic: US$659.00 in the USA, Canada, and Mexico; UK£402.00+VAT elsewhere. Institutions electronic only: US$486.00 in the USA, Canada, and Mexico; UK£297.00+VAT elsewhere. Individuals print and electronic: US$191.00 in the USA, Canada, and Mexico; UK£117.00+VAT elsewhere. Individuals electronic only: US$139.00 in the USA, Canada, and Mexico; UK£79+VAT elsewhere. Single Part: US$121.00 in the USA, Canada, and Mexico; UK£74.00+VAT elsewhere. Prices include postage and insurance. Airmail or registered mail is extra. Back volume prices are available upon request.

Submissions: All manuscripts must be submitted through the Journal's online submission platform, ScholarOne Manuscripts, at http://mc.manuscriptcentral.com/pdm. Please review the Author Instructions and Author Checklist available online before finalizing a submission.

Indexing: National Library of Medicine (MEDLINE), Cumulative Index to Nursing and Allied Health (CINAHL), and Heath Star Cumulative Index.

© World Association for Disaster and Emergency Medicine 2015. All rights reserved. No part of this publication may be reproduced, in any form or by any means, electronic, photocopying, or otherwise, without permission in writing from Cambridge University Press. Policies, request forms, and contacts are available at: http://www.cambridge.org/rights/permissions/permission.htm. Permission to copy (for users in the United States) is available from Copyright Clearance Center Transactional Reporting Service, 222 Rosewood Drive, Danvers, MA 01923, USA. http://www.copyright.com, email: info@copyright.com.

Printed in United States of America on acid-free paper.

Postmaster: Send address changes in the USA and Canada to Prehospital and Disaster Medicine, Subscription Department, Cambridge University Press, 100 Brook Hill Drive, West Nyack, NY 10994-2133, USA.

Periodical postage rate paid at New York, NY and additional mailing offices.
Call for Artwork

The cover design of *Prehospital and Disaster Medicine* calls for a photograph of relevant artwork.

If you have access to artwork that you think may be appropriate, please submit a high-resolution .TIF or .EPS file to:

Ellen Johnson, Managing Editor
E-mail: eswenson@wadem.org

All submissions will be evaluated by a panel of judges. Items not selected will be returned to the sender.