UC Irvine

Western Journal of Emergency Medicine: Integrating Emergency Care with Population Health

Title

Masthead July 2014

Permalink

https://escholarship.org/uc/item/8js9q1hq

Journal

Western Journal of Emergency Medicine: Integrating Emergency Care with Population Health, 15(4)

ISSN

1936-900X

Author

Pham, Kevin

Publication Date

2014

Copyright Information

Copyright 2014 by the author(s). This work is made available under the terms of a Creative Commons Attribution-NonCommercial License, available at https://creativecommons.org/licenses/by-nc/4.0/

Western Journal of Emergency Medicine:

Integrating Emergency Care with Population Health

Mark I. Langdorf, MD, MHPE, Editor-in-Chief University of California, Irvine School of Medicine Sean O. Henderson, MD, Senior Associate Editor Shahram Lotfipour, MD, MPH, Managing Associate Editor Keck School of Medicine, University of Southern California University of California, Irvine School of Medicine **Rick McPheeters, DO, Associate Editor** Joel Schofer, MD, MBA, RDMS Associate Editor Naval Medical Center Portsmouth Kern Medical Center **Section Editors** Infectious Disease Education Musculo-skeletal Technology in Emergency **Behavioral Emergencies** Robert Derlet, MD Juan F. Acosta DO, MS Medicine Leslie Zun, MD, MBA Michael Epter, DO Pacific Northwest University University of California, Davis Chicago Medical School Maricopa Medical Center Sanjay Arora, MD Sukhjit S. Takhar, MD Anita W. Eisenhart, DO University of Southern California Douglas Ander, MD Michael P. Wilson, MD, PhD Maricopa Integrated Health Systems Harvard Medical School Emory University Robert L. Rogers, MD University of California, San Diego University of Maryland **Injury Prevention** Neurosciences **ED** Administration **Clinical Practice** Bharath Chakravarthy, MD, MPH Edward P. Sloan, MD, MPH Jeffrey Druck, MD Trauma Eric Snoev, MD University of Illinois at Chicago University of California, Irvine University of Colorado William Paolo, MD Alameda County Medical Center William D. Whetstone, MD Wirachin Hoonpongsimanont, MD Erik D. Barton, MD, MS, MBA SUNY Upstate Critical Care University of California, Irvine University of California, San Francisco University of Utah David Peak, MD Michael Allswede, DO Massachusetts General Hospital/ **Emergency Cardiac Care** International Medicine Pediatric Emergency Medicine INTEGRIS Health Havard Medical School Chris Mills, MD, MPH Judith Klein, MD Allan Mottram, MD William Brady, MD Ali S. Raja, MD. MBA, MPH University of Wisconsin University of Virginia Santa Clara Valley Medical Center University of California, San Francisco Brigham & Women's Hospital/ David Williams, MD Paul Walsh, MD, MSc Amal Mattu, MD H. Bryant Nguyen, MD, MS Harvard Medical School University of California, Davis University of Southern California Loma Linda University University of Maryland Toxicology Legal Medicine **Public Health Emergency Medical Services Disaster Medicine** Jeffrey R. Suchard, MD Jeremy Hess, MD, MPH Greg P. Moore, MD, JD Christopher Kahn, MD, MPH Christopher Kang, MD University of California, Irvine Madigan Army Medical Center Emory University University of California, San Diego Madigan Army Medical Center Brandon Wills, DO, MS Trevor Mills, MD, MPH David E. Slattery, MD Gentry Wilkerson MD Methodology and Biostatistics Virginia Commonwealth Northern California VA Health Care University of Maryland University of Nevada Craig Anderson, MPH, PhD University Geriatrics University of California, Irvine Resident/Student/Fellow Forum Ultrasound Christian McClung, MD Laleh Gharahbaghian, MD

University of Southern California

University of Southern California

Michael Menchine, MD, MPH

Teresita M. Hogan, MD Resurrection Medical Center, Chicago Kathleen Walsh, DO, MS University of Wisconsin

Editorial Board

Peter A Bell, DO, MBA Ohio University, Heritage College of Osteopathic Medicine

Barry E. Brenner, MD, MPH Case Western Reserve University

David Brown, MD Massachusetts General Hospital/Harvard Medical School

Robert W. Derlet, MD University of California, Davis

Daniel J. Dire, MD University of Texas Health Sciences Center San Antonio

Steven Gabaeff, MD American Academy of EM

Debra Houry, MD, MPH Emory University

Brent King, MD, MMM University of Texas, Houston

Edward Michelson, MD Case Western University Jonathan Olshaker, MD

Boston University Official Journal of the California Chapter of the American College of Emergency

Linda Suk-Ling Murphy, MLIS University of California, Irvine School of Medicine Librarian Edward Panacek, MD, MPH

University of California, Davis Niels K. Rathlev, MD Tufts University Medical School and Baystate Medical Center

Robert M. Rodriguez, MD University of California, San Francisco

Scott Rudkin, MD, MBA University of California, Irvine

Peter Sokolove, MD University of California, San Francisco Samuel J. Stratton, MD, MPH Orange County, CA, EMS Agency Thomas Terndrup, MD

Pennsylvania State University Scott Zeller MD Alameda County Medical Center Leslie Zun, MD, MBA Chicago Medical School

COEP

Physicians, the America College of Osteopathic Emergency Physicians, and the California

Chapter of the American Academy of Emergency Medicine

Arif Alper Cevik, MD Eskişehir Osmangazi University Medical Center, Eskişehir, Turkey

Francesco Della Corte, MD Azienda Ospedaliera Universitaria "Maggiore della Carità", Novara, Italy

Vijay Gautam, MBBS University of London, United Kingdom Wirachin Hoonpongsimanont, MD

University of California, Irvine -International Editor Fellow

Meghan A. Brown, BA

Editorial Assistant

Ginger Czajkowski

June Casev, BA

Copy Editor

Liaison

CAL AAEM WestJEM

Calvin He, BS Publishing Manager

Kelly C. Joy, BS Editorial Assistant

Kevin Pham, BS Assistant Publishing Manager

Jennifer Mogi, BA, BS Associate Editorial Director

Editorial Staff

Publisher

Department of Emergency Medicine, University of

SCHOOL OF MEDICINE

Cameron Sumrell, BS Website Manager

Calvin Tan, BS Editorial Director

Elyse Young, BS Associate Editorial Director

Nadia Zuabi, BS

Assistant Editorial Director

California, Irvine

UNIVERSITY of CALIFORNIA · IRVINE er • Teach • Hea

Available in Pub Med, Pub Med Central, CINAHL, SCOPUS, Google Scholar, eScholarship, Melvyl, Directory of Open Access Journals, Medscape, HINARI, and MDLinx Emergency Med. WestJEM, 101 The City Drive, Rt. 128-01, Orange, CA 92868-3201; Office (714) 456-6389; Email: Editor@westjem.org

CALIFORNIA ACEP

i

John Ashurst, DO Lehigh Valley Healthn

Cecylia Kelley, DO Inspira Health Network

International Editorial Board

Shane Summers, MD Brooke Army Medical Center

> Amin Antoine Kazzi, MD The American University of Beirut, Lebanon

Steven Hoon Chin Lim, MD Changi General Hospital, Singapore

Stanford University

Kobi Peleg, PhD, MPH Tel-Aviv University, Israel

Rapeepron Rojsaengroeng, MD Ramathibodi Hospital, Mahidol University, Bangkok, Thailand

Western Journal of Emergency Medicine:

Integrating Emergency Care with Population Health

This open access publication would not be possible without the generous and continual support of our society, chapter, and department sponsors.

Professional Society Sponsors

AMERICAN COLLEGE OF OSTEOPATHIC EMERGENCY PHYSICIANS

CALIFORNIA CHAPTER OF THE AMERICAN ACADEMY OF EMERGENCY MEDICINE

Professional Chapter Sponsors

FLORIDA CHAPTER OF THE AMERICAN ACADEMY OF EMERGENCY MEDICINE

NEVADA CHAPTER OF THE AMERICAN ACADEMY OF EMERGENCY MEDICINE

MISSOURI CHAPTER OF THE AMERICAN ACADEMY OF EMERGENCY MEDICINE

Academic Department Sponsors

Advocate Christ Medical CENTER OAK LAWN, IL AMERICAN UNIVERSITY OF BEIRUT BEIRUT, LEBANON BAYLOR COLLEGE OF MEDICINE HOUSTON, TX BAYSTATE MEDICAL CENTER/ **TUFTS UNIVERSITY** SPRINGFIELD, MA BOSTON MEDICAL CENTER BOSTON, MA CARL R. DARNALL MEDICAL CENTER FORT HOOD, TX UNIVERSITY OF COLORADO & DENVER HEALTH DENVER, CO EASTERN VIRGINIA MEDICAL SCHOOL NORFOLK, VA EMORY UNIVERSITY ATLANTA, GA FLORIDA HOSPITAL MEDICAL CENTER ORLANDO, FL

MEDICAL CENTER WEST ISLIP, NY HENRY FORD MEDICAL CENTER DETROIT, MI INTEGRIS HEALTH OKLAHOMA CITY, OK KAWEAH DELTA HEALTHCARE DISTRICT VISALIA, CA KENNEDY UNIVERSITY HOSPITALS* TURNERSVILLE, NJ KERN MEDICAL CENTER BAKERSFIELD, CA LEHIGH VALLEY HOSPITAL AND HEALTH NETWORK ALLENTOWN, PA MADIGAN ARMY MEDICAL CENTER TACOMA, WA MAIMONIDES MEDICAL CENTER* BROOKLYN, NY MARICOPA MEDICAL CENTER PHOENIX, AZ MASSACHUSETTS GENERAL HOSPITAL

BOSTON, MA

MIAMI BEACH, FL

MOUNT SINAI MEDICAL CENTER

GOOD SAMARITAN HOSPITAL

METROPOLITAN CENTER NEW YORK, NY NORTH SHORE UNIVERSITY HOSPITAL MANHASSET, NY **REGIONS HOSPITAL/ HEALTH PARTNERS** INSTITUTE FOR EDUCATION AND Research ST. PAUL, MN **RESURRECTION MEDICAL CENTER*** CHICAGO, IL **ROBERT WOOD JOHNSON HOSPITAL*** NEW BRUNSWICK, NJ SOUTHERN ILLINOIS UNIVERSITY CARBONDALE, IL SAN DIEGO MEDICAL CENTER SAN DIEGO, CA STANFORD UNIVERSITY PALO ALTO, CA TEMPLE UNIVERSITY PHILADELPHIA, PA UNIVERSITY OF ARIZONA TUCSON, AZ UNIVERSITY OF CALIFORNIA DAVIS*

NEW YORK MEDICAL COLLEGE/NY

DAVIS, CA UNIVERSITY OF CALIFORNIA IRVINE* ORANGE, CA

TENNESSEE CHAPTER OF THE AMERICAN ACADEMY OF EMERGENCY MEDICINE UNIFORMED SERVICES CHAPTER OF THE AMERICAN ACADEMY OF EMERGENCY MEDICINE

VIRGINIA CHAPTER OF THE AMERICAN ACADEMY OF EMERGENCY MEDICINE

UNIVERSITY OF CALIFORNIA LOS

UNIVERSITY OF CALIFORNIA SAN

UNIVERSITY OF CALIFORNIA SAN

UNIVERSITY OF ILLINOIS AT CHICAGO

UNIVERSITY OF CALIFORNIA SAN DIEGO

ANGELES

LOS ANGELES, CA

SAN FRANCISCO, CA

FRANCISCO FRESNO

JACKSONVILLE, FL

UNIVERSITY OF FLORIDA

UNIVERSITY OF MARYLAND

UNIVERSITY OF NEVADA

UNIVERSITY OF SOUTHERN

UNIVERSITY OF TEXAS, HOUSTON

COLLEGE PARK, MD

LAS VEGAS, NV

LOS ANGELES, CA

UNIVERSITY OF UTAH

SALT LAKE CITY, UT

CALIFORNIA

HOUSTON, TX

SYRACUSE, NY

LA JOLLA, CA

FRANCISCO

FRESNO, CA

CHICAGO, IL

*denotes department & residency sponsor THAI ASSOCIATION FOR EMERGENCY MEDICINE

UPSTATE MEDICAL CENTER

EMERGENCY MEDICINE ASSOCIATION OF TURKEY

Become a WestJEM departmental sponsor, waive article processing fees, receive print/electronic copies, and free CME advertisement space at www.calaaem.org/westjem or contact:

Ginger Czajkowski Cal/AAEM: WestJEM Phone: (800) 884-2236 GCzajkowski@aaem.org

GEORGE WASHINGTON

WASHINGTON, DC

UNIVERSITY

or

Western Journal of Emergency Medicine

International Society Partners SOCIEDAD ARGENTINA DE EMERGENCIAS

SOCIEDAD CHILENO MEDICINA URGENCIA

Shahram Lotfipour, MD, MPH

Managing Associate Editor

Shahram.Lotfipour@uci.edu

Phone: (714) 456-2326

American College of Emergency Physicians

CALIFORNIA CHAPTER OF THE