UCI CMK Office now offers Credit for Journal Manuscript Review!

The CME Office at UCI School of Medicine is proud to announce it now offers Manuscript Review CME.

Beginning with the Western Journal of Emergency Medicine (WestJEM), reviewers are eligible to receive three CME credits for each accepted review. “Credit for this activity has been allowed by the AMA for many years, as long as the journal is indexed in MEDLINE, through the National Library of Medicine. Getting quality peer review of scientific articles is a constant struggle for medical journals. A good review can take hours to perform, and should, ideally, involve searching the literature for relevant science, reviewing it, and making sure the article under consideration adds both truth and value to the literature. There is substantial learning that goes into this process, which certainly should provide CME credit,” said Dr. Mark I. Langdorf, WestJEM’s Editor-in-Chief.

Manuscript Review CME is designed to address the skills of critically assessing manuscripts and communicating feedback effectively to editors and authors.

Please contact Ellen Seaback, CMP, CAE, CHCP, Executive Director of the UCI School of Medicine CME Office at es seaback@uci .edu if you are interested in learning how to provide CME credit to your journal’s reviewers.
Professional Society Sponsors

**AMERICAN COLLEGE OF OSTEOPATHIC EMERGENCY PHYSICIANS**

**CALIFORNIA CHAPTER DIVISION OF**

**AMERICAN ACADEMY OF EMERGENCY MEDICINE**

**International Society Partners**

**SOCIEDAD ARGENTINA DE EMERGENCIAS**

**SOCIEDAD CHILENO MEDICINA URGENCIA**

**UNIFORMED SERVICES CHAPTER DIVISION OF THE**

**AMERICAN ACADEMY OF EMERGENCY MEDICINE**

**THAI ASSOCIATION FOR EMERGENCY MEDICINE**

**EMERGENCY MEDICINE ASSOCIATION OF TURKEY**

Become a WestJEM departmental sponsor, waive article processing fee, receive print/ copies for all faculty and electronic for faculty/residents, and free CME and faculty/fellow position advertisement space, please go to [http://westjem.com/subscribe](http://westjem.com/subscribe) or contact:

Emily DeVillers
WestJEM Staff Liaison
Phone: 1-800-884-2236
Email: sales@westjem.org

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

Academic Department of Emergency Medicine Subscriber

**ADVOCATE CHRIST MEDICAL CENTER**

**Oak Lawn, IL**

**ALLEGHENY HEALTH NETWORK**

**PITTSBURGH, PA**

**AMERICAN UNIVERSITY OF BEIRUT**

**BEIRUT, LEBANON**

**BAYSTATE MEDICAL CENTER/TUFTS UNIVERSITY**

**SPRINGFIELD, MA**

**BOSTON MEDICAL CENTER**

**BOSTON, MA**

**BROWN UNIVERSITY**

**PROVIDENCE, RI**

**CARL R. DARNALL MEDICAL CENTER**

**FORT HOOD, TX**

**EASTERN VIRGINIA MEDICAL SCHOOL**

**NORFOLK, VA**

**EMORY UNIVERSITY**

**ATLANTA, GA**

**FLORIDA HOSPITAL MEDICAL CENTER**

**ORLANDO, FL**

**GOOD SAMARITAN HOSPITAL MEDICAL CENTER**

**WEST ELM, NY**

**HENRY FORD MEDICAL CENTER**

**DETROIT, MI**

**HIGHLAND HOSPITAL**

**OAKLAND, CA**

**MAIDIGAN ARMY MEDICAL CENTER**

**TACOMA, WA**

**MAIMONIDES MEDICAL CENTER**

**BROOKLYN, NY**

**MARICOPA MEDICAL CENTER**

**PHOENIX, AZ**

**MASSACHUSETTS GENERAL HOSPITAL**

**BOSTON, MA**

**MAYO CLINIC COLLEGE OF MEDICINE**

**ROCHESTER, MN**

**NORTH SHORE UNIVERSITY HOSPITAL**

**MANSFIELD, NY**

**OHIO STATE UNIVERSITY MEDICAL CENTER**

**COLUMBUS, OH**

**OKLAHOMA CITY, OK**

**OKULA**

**Arlington, TX**

**RESURRECTION MEDICAL CENTER**

**CHICAGO, IL**

**ROBERT WOOD JOHNSON HOSPITAL**

**NEW BRUNSWICK, NJ**

**SOUTHERN ILLINOIS UNIVERSITY**

**CARBONDALE, IL**

**STANFORD UNIVERSITY**

**PALO ALTO, CA**

**SUNY DOWNSTATE MEDICAL CENTER**

**NEW YORK CITY, NY**

**TEMPLE UNIVERSITY**

**PHILADELPHIA, PA**

**UNIVERSITY OF ARIZONA**

**TUCSON, AZ**

**UNIVERSITY OF CALIFORNIA**

**DAVIS, CA**

**UNIVERSITY OF CALIFORNIA IRVINE**

**ORANGE, CA**

**UNIVERSITY OF CALIFORNIA SAN DIEGO**

**LA JOLLA, CA**

**UNIVERSITY OF CALIFORNIA SAN FRANCISCO**

**SAN FRANCISCO, CA**

**UNIVERSITY OF CALIFORNIA SAN FRANCISCO FRESNO**

**FRESNO, CA**

**UNIVERSITY OF COLORADO & DENVER HEALTH**

**DENVER, CO**

**UNIVERSITY OF FLORIDA**

**JACKSONVILLE, FL**

**UNIVERSITY OF ILLINOIS AT CHICAGO**

**CHICAGO, IL**

**UNIVERSITY OF IOWA**

**IOWA CITY, IA**

**UNIVERSITY OF LOUISVILLE**

**LOUISVILLE, KY**

**UNIVERSITY OF MARYLAND**

**COLLEGE PARK, MD**

**UNIVERSITY OF NEVADA**

**LAS VEGAS, NV**

**UNIVERSITY OF SOUTHERN CALIFORNIA/KECK SCHOOL OF MEDICINE**

**LOS ANGELES, CA**

**UNIVERSITY OF TEXAS, HOUSTON**

**HOUSTON, TX**

**UNIVERSITY OF UTAH**

**SALT LAKE CITY, UT**

**UPSTATE MEDICAL CENTER**

**SYRACUSE, NY**

*denotes department & residency sponsor

State Chapter Subscriber

**FLORIDA CHAPTER DIVISION OF THE**

**AMERICAN ACADEMY OF EMERGENCY MEDICINE**

**GREAT LAKES CHAPTER DIVISION OF THE**

**AMERICAN ACADEMY OF EMERGENCY MEDICINE**

**TENNESSEE CHAPTER DIVISION OF THE**

**AMERICAN ACADEMY OF EMERGENCY MEDICINE**

Western Journal of Emergency Medicine
The 2016 Academic Emergency Medicine (AEM) consensus conference, “Shared Decision Making in the Emergency Department: Development of a Policy-Relevant Patient-Centered Research Agenda,” will be held on May 10, 2016, immediately preceding the SAEM Annual Meeting in New Orleans, LA. Original research papers on this topic, if accepted, will be published together with the conference proceedings in the December 2016 issue of AEM.

The consensus conference will convene major thought leaders and necessary stakeholders on shared decision making in acute care. Specifically, the conference will include patients, patient representatives from national advocacy organizations, emergency physicians, mid-level providers, emergency nurses, and researchers with expertise in shared decision making and patient-centered outcomes research, comparative effectiveness research, and health information technology. There will be clinicians across various disciplines such as emergency medicine, health services research, psychology, and quality improvement. Finally, the conference will include national policy makers, payer representatives, and other stakeholders with the expressed goal of developing a multidisciplinary, consensus-based, high-priority research agenda to improve and optimize shared decision making in the emergency department.

Consensus Objectives:
1. Critically examine the state of science on shared decision making in emergency medicine, and identify opportunities, limitations, and gaps in knowledge and methodology;
2. Develop a consensus statement that prioritizes opportunities for research in shared decision making that will result in practice changes, and identifies effective methodological approaches;
3. Identify and build collaborative research networks to study the use of shared decision making and patient-centered outcomes research in emergency medicine that will be competitive for federal funding.

Accepted manuscripts will present original, high-quality research in shared decision making in the ED, such as clinical decision rules, shared decision making, knowledge translation, comparative effectiveness research, and multidisciplinary collaboration. They may include work in clinical, translational, health systems, policy, or basic science research. Papers will be considered for publication in the December 2016 issue of AEM if received by April 17, 2016. All submissions will undergo peer review and publication cannot be guaranteed.

For queries, please contact the conference chair, Corita R. Grudzen, MD, MSHS (corita.grudzen@nyumc.org), or the co-chairs Christopher R. Carpenter, MD, MSc (carpenterc@wusm.wustl.edu) and Erik Hess, MD (Hess.Erik@mayo.edu). Information and updates will be regularly posted in AEM and the SAEM Newsletter, and on the journal and SAEM websites.
The CME Office at UCI School of Medicine is proud to announce it now offers Manuscript Review CME.

Beginning with the Western Journal of Emergency Medicine (WestJEM), reviewers are eligible to receive three CME credits for each accepted review, to a maximum of 15 credits per year. “Credit for this activity has been allowed by the AMA for many years, as long as the journal is indexed in MEDLINE, through the National Library of Medicine. Quality peer review is the foundation of scientific publishing. CME credit for the inevitable learning that occurs by the reviewer is highly appropriate. A good review can take hours, and should, ideally, involve searching the literature for relevant science, reviewing it, and making sure the article under consideration adds both truth and value to the literature. There is substantial learning that goes into this process, which certainly should provide CME credit”, said Dr. Mark I. Langdorf, WestJEM’s Editor-in-Chief.

Manuscript Review CME is designed to hone the skills of critically assessing manuscripts and communicating feedback effectively to editors and authors.

Please contact Ellen Seaback, CMP, CAE, CHCP, Executive Director of the UCI School of Medicine CME Office at eseaback@uci.edu for more information.
The VIIIth MEMC is jointly organized by the American Academy of Emergency Medicine (AAEM), the Global Research on Acute Conditions Team (GREAT) Network & the Mediterranean Academy of Emergency Medicine (MAEM). In conjunction with the GREAT 2015 Annual Conference — organized by the GREAT Network.
$25,000 PER MONTH* DISABILITY COVERAGE
NOW AVAILABLE FOR
EMERGENCY PHYSICIANS
ALL MAJOR DISABILITY COMPANIES REPRESENTED

< Benefits paid if unable to practice Emergency Medicine for entire benefit period.
< Percentage of total benefit paid if able to practice Emergency Medicine on a part-time basis due to disability.
< Premiums guaranteed level to age 67.
< Policy cannot be cancelled or altered except for non-payment of premiums.
< No medical exam required if coverage less than $6,000 a month & under age 50.
< Special Guarantee Approval programs for Residents and Fellows.
< Coverage provided by 100+ year-old insurance companies.
< Discounts available.
< Cost-of-Living Increase Riders available.

*Eligible monthly benefits based on income.

PROTECT YOURSELF WITH PERSONALIZED DISABILITY INSURANCE NOW -- As an Emergency Physician you see the devastating effects of injury and illness on a daily basis. Regular reviews of your disability coverage are critical to protecting your lifestyle.

Contact DI4MDs today for your complimentary disability coverage review. Put our 20+ years of experience and knowledge to work for you.

DI 4 MDs
DISABILITY INSURANCE SPECIALISTS
www.DI4MDs.com  Andy G. Borgia, CLU andyb@DI4MDs.com  888-934-4637

Call Now
888-934-4637

Call for
-EMS Section Editor &
Reviewers for all topics of EM -

Please send your CV and letter of interest to editor@westjem.org
MEDICAL EDUCATION FELLOWSHIP  
DEPARTMENT OF EMERGENCY MEDICINE  
THOMAS JEFFERSON UNIVERSITY HOSPITAL  
PHILADELPHIA, PA

The Department of Emergency Medicine at Thomas Jefferson University Hospital is proud to announce its one-year Medical Education Fellowship for graduating emergency medicine residents. Our intensive Fellowship is geared for residents seeking advanced training in pedagogy and learning theory; instructional design; and design thinking. The goal of the Fellowship is to prepare the Fellow for a highly successful career as an educational leader in academic emergency medicine.

Informed by the principles of Experiential Learning Theory, Transformative Learning Theory, and Self-Directed Learning Theory, the Medical Education Fellowships offers the prospective Fellow(s) the skillset to adapt to an ever-changing learning environment and educational landscape. The Fellowship will provide formalized training in adult learning in clinical and academic medicine, and will use simulation, telehealth, and patient safety (PS) and clinical quality (CQ) tools as vehicles to inform educational initiatives in undergraduate and graduate curricula, as well as faculty development programming and continuing medical education. In addition, the Fellow will identify a specific area of academic interest in the realm of education, and will be given the resources and time to develop his/her productivity within this specified domain. The Education Fellow will work clinically as an attending physician in the Emergency Departments (ED) of Thomas Jefferson University Hospitals.

Interested applicants should be graduates of an ACGME-accredited Emergency Medicine residency program. An application will consist of a letter of interest, curriculum vitae (CV), and 2-3 letters of recommendation. Please direct any questions to Dr. Dimitrios Papanagnou or Christina Melton. The deadline for application is October 1st, 2015. For additional information on the fellowship program, please visit:

Vist www.acoep.org/meetings to register today!

October 18 - 22, 2015
Loews Portofino Bay, Universal, Orlando, FL

More Opportunities from ACOEP!

August 27 - 28, 2015
Homewood Suites, Chicago, IL

JOIN CAL/AAEM!

Championing individual physician rights and workplace fairness

Benefits
- Western Journal of Emergency Medicine Subscription
- CAL/AAEM News Service email updates
- Discounted AAEM pre-conference fees
- and more!

CAL/AAEM News Service
- Healthcare industry news
- Public policy
- Government issues
- Active legal cases and court decisions

In collaboration with our official journal
WestJEM Integrating Emergency Care with Population Health

Facebook.com/CALAAEM
Follow us @CALAAEM
Http://www.CALAAEM.org

CAL/AAEM California Chapter Division of the American Academy of Emergency Medicine
## CRITICAL CARE

**364** Is Serum Lactate Necessary in Patients with Normal Anion Gap and Serum Bicarbonate?  

## TREATMENT PROTOCOL ASSESSMENT

**367** Case Series of Patients with Ruptured Abdominal Aortic Aneurysm  
T. Spencer, R. Jayia, R. Parks, M. Hodapp

## BEHAVIORAL HEALTH

**372** Racial Differences in Opiate Administration for Pain Relief at an Academic Emergency Department  
R.M. Dickason, V. Chauhan, A. Mor, E. Ibier, S. Kuehnle, D. Mahoney, E. Aimbrecht, P. Dalawari

**381** Opioid Education and Nasal Naloxone Rescue Kits in the Emergency Department  
K. Dwyer, A.Y. Walley, B.K. Langlois, P.M. Mitchell, K.P. Nelson, J. Cromwell, E. Bernstein

## HEALTH OUTCOMES

**385** Epinephrine for Anaphylaxis: Underutilized and Unavailable  
L.S. Dudley, M. Mansour, M.A. Merlin

**388** Reassessing Off-Hour Arrival Patterns and Outcomes in ST-Elevation Myocardial Infarction  

**395** Variability in the Initial Costs of Care and One-Year Outcomes of Observation Services  
I. Abbass

**401** Physician Documentation Of Sepsis Syndromes Is Associated with More Aggressive Treatment  

**408** Association of Insurance Status with Health Outcomes Following Traumatic Injury: Statewide Multicenter Analysis  
V. Chikani, M. Brophy, A. Vossbrink, K. Hussaini, C. Salvino, J. Skubic, R. Martinez

---

*Contents continued on page iv*