

Utah EM Research News

Research News and Updates from the Division of Emergency Medicine, University of Utah

Winter 2009

Division Hosts 12th Annual SAEM Western Regional Research Forum in Park City

The University of Utah Division of Emergency Medicine hosted the 12th Annual Society for Academic Emergency Medicine Western Regional Research Forum in Park City on January 30-31. The conference rotates locations each year, and this is the first year it was hosted by the University of Utah.

The conference was the largest it has been, with 170 participants and 112 abstracts presented. Feedback from participants from across the country was very positive, as many commented on the great location, organization, and quality of the conference.

Many faculty were key to the success of the conference. Scott Youngquist served as a session moderator and abstract judge for the conference. Erik Barton was one of the plenary session judges, and Scott Youngquist, Holly Ledyard, and Todd Allen were abstract session moderators. Susan Stroud oversaw and presented the medical student forum, while Matt Ahern, Virgil Davis, and Deb Battaglia organized and taught the ultrasound workshop. Troy Madsen served as the conference chair.

The division had several abstracts presented at the conference. Abstracts and presenting authors were as follows:

Luisa Todd, Helicopter EMS Transport of Prisoners

Steve Sugeran, Midlevel Providers Effectively Staff an Emergency Department Observation Unit

Steve Groke, Emergency Department Patients with Psychiatric Complaints Return at Higher Rates than Controls

Anne Zink, Return Emergency Department Visits and Outcomes among Patients Presenting with

Psychiatric Complaints

Matthew Ashton, Ultrasound Guided Peripheral IV Access: The Efficacy Of Training

Michael Mallin, A Survey of Emergency Ultrasound Billing, QA and Archiving System among EM Residency Programs

Mike Mallin, Lack of Standardization Exists in Ultrasound Education among Emergency Medicine Residency Programs

Zak Foy, Decreasing Radiology Turn-around Times in the ED: Does Limiting Oral Contrast Make a Difference?

Michael Mallin, Senior Resident Perceptions of Ultrasound Training in Emergency Medicine Residency Programs

Michael Mallin, A Novel Technique for Ultrasound Guided Supraclavicular Subclavian Venous Cannulation

Andre Crouch, The potential benefit of US to aid in diagnosis and management of ED patients in a developing country

Andre Crouch, Perceived confidence in the FAST exam before and after an educational intervention in a developing country

Eliza Johnson, Hospital Outcomes In Elderly Patients Injured At Winter Resorts

Matthew Dawson, Routine Serial Hematocrit Testing Does Not Assist in Identifying Major Injuries in Trauma Patients in an Observation Unit

Erika Schroeder, Incidence Of Failed Pregnancy In Patients Presenting To The Emergency Department

Recent Division Publications

Yarris JP, **Caravati EM**, Horowitz ZB, Stromness JR, Crouch BI, McKeown NJ. Acute arsenic trioxide ant bait ingestion by toddlers. Clin Toxicol (Phila). 2008;46(9):785-789.

McIntosh SE, Swanson ER, McKeone A, Barton ED. Location of airway management in air medical transport. Prehosp Emerg Care. 2008 Oct-Dec;12(4):438-42.

Madsen TE, Bledsoe J, Bossart P. Appropriately screened geriatric chest pain patients in an observation unit are not admitted at a higher rate than nongeriatric patients. Critical Pathways in Cardiology. 2008 Dec;7(4):245-7.

(Current division publications in press have not been included in this issue due to space constraints)

“Utah EM Research News” is published four times per year. Please contact Troy Madsen, division research director, at troy.madsen@hsc.utah.edu with any news, comments, or suggestions.

Faculty with Papers, Publications, Awards

Division faculty have had multiple recent publications, accepted papers, and awards.

Published papers:

Manoguerra AS, Erdman AR, Woolf AD, Chyka PA, **Caravati EM**, Scharman EJ, Booze LL, Christianson G, Nelson LS, Cobaugh DJ, Troutman WG. Valproic acid poisoning: An evidence-based consensus guideline for out-of-hospital management. *Clin Toxicol (Phila)* 2008;46:661-676.

Ellington L, Matwin S, Jasti S, Williamson J, Crouch BI, **Caravati EM**, Dudley WN. Poison Control Center Communication and Impact on Caller Adherence. *Clin Toxicol (Phila)* 2008;46:105-109.

Caravati EM, Erdman AR, Christianson G, Nelson LS, Woolf AD, Booze LL, Cobaugh DJ, Chyka PA, Scharman EJ, Manoguerra AS, Troutman WG. Elemental mercury exposure: An evidence-based consensus guideline for out-of-hospital management. *Clin Toxicol (Phila)* 2008;46(1):1-21.

Doyle GS, Taillac PP. Tourniquets: a review of current use with proposals for expanded prehospital use. *Prehosp Emerg Care.* 2008 Apr-Jun;12(2):241-56.

Niemann JT, Rosborough J, **Youngquist S**, Lewis RJ, Phan QT, Filler S. The Proinflammatory Cytokine Response following Resuscitation in the Swine Model Depends on the Method of Ventricular Fibrillation Induction. *Acad Emerg Med.* 2008 Sep 8.

Youngquist ST, Shah AP, Niemann JT, Kaji AH, French WJ. A comparison of door-to-balloon times and false-positive activations between emergency department and out-of-hospital activation of the coronary catheterization team. *Acad Emerg Med.* 2008 Aug;15(8):784-7.

Kaji AH, Koenig W, Eckstein M, **Youngquist S**, Tadeo R, Niemann JT. The need for uniform definitions in the regionalized care of ST-segment elevation myocardial infarction. *Acad Emerg Med.* 2008 Aug;15(8):759-61.

Niemann JT, Rosborough JP, **Youngquist S.** Is the tumour necrosis factor-alpha response following resuscitation gender dependent in the swine model? *Resuscitation.* 2008 May;77(2):258-63.

Honors/Awards:

Marty Caravati was awarded Fellow status in the American Academy of Clinical Toxicology (FAACT) at the NACCT meeting in Toronto, Canada on September 14, 2008.

Eric Swanson has been invited to participate in the 2nd International FARE Forum in Minneapolis, MN on October 22, 2008.

In Press:

Caravati EM, Stromness JR, Crouch BI, Yarris JP, McKeown NJ, Horowitz BZ. Pediatric ingestion of ant bait gel results in arsenic toxicity. *Clin Toxicol.*

Ellington, L, Kennedy Sheldon L, Matwin, S, Smith, JA, Poynton, M, Crouch, BI, **Caravati, EM.** An Examination of Adherence Strategies and Challenges in Poison Control Communication. *J Emerg Nursing* 2008.

Madsen T, Bossart P, Bledsoe J, Bernhisel K, Cheng M, Mataoa T, Bartlett J, McKellar A, Rivas W, Quick N. Coronary Disease Patients Fail Observation Status at Higher Rates than Non-Coronary Disease Patients. *American Journal of Emergency Medicine.*

Madsen T, Bledsoe J, Bossart P. Appropriately Screened Geriatric Chest Pain Patients in an Observation Unit Are Not Admitted at a Higher Rate than Non-Geriatric Patients. *Critical Pathways in Cardiology.*

McIntosh SE, Swanson ER, McKeone A, Barton ED. Intubation Location in Air Medical Transport. Oct-Dec 2008 issue of *Prehospital Emergency Care.*

Presentations:

Swanson ER: Where the Literature Stands. Transport Medicine Research Academy Pre-conference. Minneapolis, MN October 19, 2008.

Swanson ER: Getting Published in a Professional Forum. Association of Air Medical Services Air Medical Transport Conference (AMTC). Minneapolis, MN October 21, 2008.

Swanson ER, McIntosh SE, Fosnocht DE, Barton ED: The Intubating Laryngeal Mask Airway for Air Medical Airway Management. Accepted to the Air Medical Transport Conference (AMTC) Research Forum. Minneapolis Oct. 20.

Thomas KC, Redmond M, Thomsen G, Crouch BI, **Caravati** Acute respiratory failure and death associated with acrolein exposure during routine application. *Clin Toxicol* 2008;46:606. North Am Congress of Clin Toxicol. Toronto, CA, Sept 14.

Marshall SW, Crouch BI, **Caravati EM.** Lessons to be learned: A poison center's use of digital call recordings. *Clin Toxicol* 2008;46:624. Presentation at the North Am Congress of Clin Toxicology. Toronto, CA, September 2008.

Anderson KT, **Caravati EM, Seger CJ.** Serious toxicity in an infant due to ingestion of 1 mg risperidone. *Clin Toxicol* 2008;46:629. Presentation at the North American Congress of Clinical Toxicology. Toronto, CA, September 16, 2008.

Bennett H, Poynton M, Ellington L, Jasti S, Crouch B, **Caravati M.** Perceived severity of clinical effects from toxic exposures reported to a poison control center. *Clin Toxicol* 2008;46:6638. Presentation at the North American Congress of Clinical Toxicology. Toronto, CA, September 15, 2008.

Anderson KT, **Caravati EM, Dahl B, Crouch BI.** Effect of the AAPCC iron management guideline on the triage and outcome of children's multivitamin with iron ingestions reported to a poison control center. *Clin Toxicol* 2008;46:634. Presentation at the North American Congress of Clinical Toxicology. Toronto, CA, September 16, 2008.

Caravati EM, Stromness JR, Crouch BI, Yarris JP, McKeown NJ, Horowitz BZ. Pediatric ingestion of ant bait gel results in arsenic toxicity. *Clin Toxicol* 2008; 46:418. Euro Assoc of Poison Centers and *Clin Toxicol*, Seville, Spain, May 9, 2008.