

# Utah EM Research News

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

Winter 2009

## Residents, Students Present Research at National Meetings

Zak Foy and Michael Mallin recently presented division research projects at the annual meeting of the Society for Academic Emergency Medicine.

Zak presented a project on which he worked with Erik Barton and Christy Hopkins evaluating the impact of IV contrast-only CT on patient turnaround times. He presented his research as an oral presentation, and stated that the project was well-received and generated a significant amount of interest in the protocol.

Mike presented a project he developed in which residents were taught a novel approach for ultrasound-guided supraclavicular intravenous access. The technique is one which Mike has developed and which he plans to publish.

The SAEM annual meeting was held in New Orleans from May 13-17. According to SAEM website, the conference had 2166 attendees and 683 abstracts presented, the largest number ever presented at the SAEM meeting.

In addition, several division projects will be presented at the ACEP Scientific Assembly in October in Boston. Several medical students who have worked with division faculty on these projects will be presenting.

Tom Phanthavady will present a project on subarachnoid hemorrhage completed with Chris Gee. Steve Groke will present on psychiatric ED return visits, a project which he performed with Anne Zink and Troy Madsen. Stuart Knapp will present a project on residency applicant characteristics, on which Matt Dawson, Susan Stroud, Steve Hartsell, Virgil Davis, and Troy Madsen are coauthors.

“Utah EM Research News” is published twice a year. Please contact Troy Madsen, division research director, at [troy.madsen@hsc.utah.edu](mailto:troy.madsen@hsc.utah.edu) with any news, comments, or suggestions.

## Recent Division Publications

Buprenorphine for opioid dependence.  
Milne M, Crouch BI, **Caravati EM**.  
J Pain Palliat Care Pharmacother. 2009;23(2):153-5.

Expert Consensus Guidelines for Stocking of Antidotes in Hospitals That Provide Emergency Care.  
Dart RC, Borron SW, **Caravati EM**, et al; Antidote Summit Authorship Group.  
Ann Emerg Med. 2009 May 5.

Observation unit admission as an alternative to inpatient admission for trauma activation patients.  
**Madsen TE, Bledsoe JR, Bossart PJ**.  
Emerg Med J. 2009 Jun;26(6):421-3.

Physician documentation of nonspecific EKG changes predicts hospital admission among observation unit chest pain patients.  
**Madsen T, Bledsoe J, Bossart P**.  
Crit Pathw Cardiol. 2009 Mar;8(1):34-7.

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

Plasma endothelin-1 level at the onset of ischemic ventricular fibrillation predicts resuscitation outcome.  
Shah AP, Niemann JT, **Youngquist S**, Heyming T, Rosborough JP.  
Resuscitation. 2009 May;80(5):580-3. Epub 2009 Apr 10.

The central nervous system cytokine response to global ischemia following resuscitation from ventricular fibrillation in a porcine model.  
**Youngquist ST**, Niemann JT, Heyming TW, Rosborough JP.  
Resuscitation. 2009 Feb;80(2):249-52. Epub 2008 Oct 26.

Paramedic Self-efficacy and Skill Retention in Pediatric Airway Management.  
**Youngquist ST**, Henderson DP, Gausche-Hill M, Goodrich SM, Poore PD, Lewis RJ.

# Research Projects Available for New Interns

Faculty in the division of emergency medicine have varied research interests with multiple projects available for involvement for the new interns in the EM residency program.

Several faculty have specifically requested assistance in either ongoing projects or projects currently in development. Christy Hopkins leads an ongoing project evaluating rates and risk stratification among winter resort injuries. Deanne Long has been working on a project evaluating claims of higher mortality rates among female physicians. Chris Gee is involved in a collaboration with Primary Children's Medical Center evaluating EMTALA.

Faculty interests are listed below. Interns are encouraged to contact faculty who may have projects in which they may work or may assist in developing projects.

Current faculty projects and interest areas are as follows:

Matt Ahern: PA ultrasound education, ultrasound quality assurance

Erik Barton: Airway management, observation medicine, radiology

Deb Battaglia: Ultrasound education

Kurt Bernhisel: Observation medicine

Joey Bledsoe: Pulmonary embolus, observation medicine

Philip Bossart: Observation medicine

Marty Caravati: Toxicology

Virgil Davis: Procedural sedation, PA ultrasound, ultrasound education, observation lipids testing

Chris Gee: Subarachnoid hemorrhage, EMTALA

Matt Hamonko: Wilderness medicine, EMS

Christy Hopkins: Winter resort injuries, radiology

Steve Hartsell: Resident education

Steve Joyce: Therapeutic hypothermia, intranasal fentanyl

Holly Ledyard: D-dimer in subarachnoid hemorrhage, observation TIA protocol

Scott Linscott: Pain management

Deanne Long: Hyperbaric medicine, physician mortality

Troy Madsen: Observation medicine, pain management, resident education, emergency obstetrics

Marion McDevitt: Wilderness medicine, EMS

Scott McIntosh: Wilderness medicine, EMS, air medical transport

Carl Seger: International medicine

Robert Stephen: Intranasal sufentanil for acute pain management

Susan Stroud: Resident education

Zach Sturges: Simulation education

Eric Swanson: Airway management, air medical transport

Peter Taillac: EMS, prehospital pain treatment

Scott Youngquist: Geriatric trauma, cardiology, mortality score for admitted patients