Emergency Medicine Research News
April 2019

Conducting innovative clinical and translational emergency care research to advance the health of the people of Wisconsin and beyond.

Top Stories

27th Annual Wisconsin Emergency Medicine Research Forum Presentations, April 4, 2019

Congratulations to everyone who will be presenting at the 2019 Research Forum on Thursday, April 4. As a reminder, if you plan to attend the Forum, as a guest or presenter, you must register! Registration for the Forum only is free. Check out all of the innovative presentations here:

Oral Presentations:
N. Cayenne: “Social Isolation as a Predictor of Post-ED Visit Follow-up by Older Adults”
A. Harwani: “Positive Screening for Rigors is Strongly Correlated with Bacteremia in Patients with Suspected Infection”
R. Holzman: “Improving Asthma Care in a Small Academic Pediatric Emergency Department”
N. Schnittke, J. Schmidt, K. Emmerich, S. Damewood: “Early Echocardiographic Evaluation and Correlation with Level of Care in Patients with Septic Shock”
M. Ward: “Fluid Resuscitation in Septic Patients with Comorbid Congestive Heart Failure”
“The Effect of Body Mass Index on Fluid Resuscitation in Severe Sepsis and Septic Shock”
“Effect of Intravenous Push Antibiotic Administration on Antibiotic Therapy Delays in Sepsis”

Poster Presentations:
A. Beck: “Features of Primary Care Influencing ED Use by Persons with Dementia: A Multiple-Perspective Qualitative Study”
M. Eng, C. Vandivort: “Manifestations of Second Victim Syndrome at an Academic Emergency Department”
UW-Madison Undergraduate Symposium
April 12, 2019- Union South, 9:00am-2:30pm

The annual Undergraduate Symposium showcases undergraduate research, achievement, and creativity from all areas of study at UW–Madison. Open to all undergraduates, the Symposium provides the opportunity for students to present their work in a professional setting.

Our very own, Nia Cayenne, will be showcasing her research in an oral presentation titled "Social Isolation as a Predictor of Post-ED Visit Follow-Up by Older Adults".

Way to go on this special achievement Nia!

Kudos
Kudos to Jason Lai, MD whose oral research presentation, "Faculty Perception of Medical Student Documentation in Emergency Medicine", was labeled **Best of the Best** at CORD 2019!

Congratulations to our own **Benjamin Schnapp, MD MEd**, for receiving an **Academic Staff DCS Course Grant** by the Professional Development and Recognition Committee (PDRC) of the Academic Staff Assembly in conjunction with the Division of Continuing Studies. The course, Executive Presence for Leaders at All Levels, will further his involvement in leadership development.

Kudos to **Janis Tupesis, MD** for participating and presenting in a debut conference based in Arusha, Tanzania- Africa! The 1st Tanzanian Emergency Medicine Symposium was organized and conducted by the Emergency Medicine Department of Arusha Lutheran Medical Center. It was held in January 2019. He presented his talk, "Emergency Medicine Development Worldwide – Where We Have Been and Where We Are Going".

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**Upcoming/Recent Presentations (DEM authors listed)**

**Council of Residency Directors in Emergency Medicine (CORD) academic assembly, March 31 - April 3, 2019**

- J. Lai: “Graded Responsibility Among Emergency Medicine Residency Programs” (poster)
- J. Lai: “Faculty Perception of Medical Student Documentation in Emergency Medicine” (oral research presentation)

**Critical Care Transport Medicine Conference (CCTMC) scientific forum, April 15-17, 2019**

Upcoming Events

**EPIC XGM**
April 29 - May 10, 2019 (Verona, WI)

**AGS 2019**
May 2-4, 2019 (Portland, OR)

**SAEM 2019**
May 14-17, 2019 (Las Vegas, NV)

**2019 Research Forum** *(Research Day 2019)*
April 4, 2019
The Harley Davidson Museum
400 W. Canal Street, Milwaukee, WI

**Undergraduate Research Symposium**
Friday, April 12, 2019
9:00a.m.-2:30p.m.
Union South

**Journal Club** *(Ultrasound)*
Tuesday, April 23, 2019
6:30p.m.-8:30p.m.
Brian Patterson, MD, MPH
Sara Damewood, MD

**Administrative Professionals Day**, April 24, 2019

**Research Lecture** *(Experimental Designs)*
Thursday, May 2, 2019
9:00a.m.-9:50a.m.
Michael Kim, MD

**VIP Grand Rounds**
May 2, 2019
10:00a.m.-10:50a.m.
Mark Bisanzo, MD, DTMH
Recent Publications

Manuscripts:


Schwei RJ, Guerrero N, Small AL, Jacobs EA. Physician perceptions of the types of roles interpreters play in limited English proficient pediatric encounters and how they evaluate the quality of interpretation. *Primary Health Care Research & Development. March 2019; 20(e25).*


All of Us
The purpose of this study is to build a national database that will be available to researchers to further precision medicine. Enrollers will approach patients to participate, help them go through the portal to complete the baseline surveys, and schedule follow-up appointments with patients for bio-specimen collection. We are hoping to enroll family members and guests in this study as well. For questions, see Dr. Manish Shah.

Caregiver Perspectives on Recruiting Patients with Memory Challenges into Research
This is a qualitative study lead by Dr. Gilmore-Bykovskyi in the School of Nursing that aims to better understand how to include patients with dementia and their caregivers in research. Caregivers of patients with dementia will be approached and asked if they would be willing to participate in an informal interview with a member of the study team. For questions, see Dr. Manish Shah.

Clinical Evaluation of the Omron Wheeze Detector Prototype and Algorithm
The purpose of this study is to test a wheeze detector prototype created by Omron Healthcare in pediatric patients with a history of asthma or suspected of having asthmatic symptoms. This is a new protocol but is a continuation of the previous Omron study that is more tailored to the target patient population. Enrollers will take a 30-second recording of eligible patients breathing to capture lung sounds of interest. For questions, see Dr. Manish Shah or Dr. Michael Kim.

Evaluating the Utility of Thermal Imaging in Diagnosing Cellulitis for Lower Extremity Complaints in the Emergency Department
The main purpose of the study is to determine the temperature gradient between affected and unaffected legs in patients with cellulitis and compare the difference in temperature between cases of cellulitis and pseudocellulitis. A secondary purpose is to assess the impact of thermal imaging data on diagnostic assessments of potential cellulitis cases when added to standard techniques. For questions, see Dr. Mike Pulia.

ORBEX
The purpose of this study is to assess whether administering ORal Bacterial EXtract to pediatric patients at risk of developing asthma will prevent these patients from developing asthma. The study is being done by Dr. Dan Jackson in Asthma & Allergy and is targeting patients between 5 and 17 months old with asthma risk factors. Enrollers will explain the study to potentially eligible families and obtain permission to contact for the study team to follow up with interested families. For questions, see Dr. Manish Shah or Dr. Dan Jackson.

Paramedic-Coached ED Care Transitions to Help Older Adults Maintain their Health
The purpose of this study is to test the overall hypothesis that a community-based, paramedic-coordinated ED-to-home Care Transition Intervention will improve community-dwelling older adults’ post-ED health outcomes and reduce cost. This study will include older adults discharged home from the ED, as well as their caregiver. For questions, see Dr. Manish Shah.

Sonographic Cardiopulmonary Features of Early Sepsis
This study aims to correlate cardiopulmonary sonographic findings in patients with early severe sepsis with the need for vasopressor support and positive pressure ventilation, as well as mortality and level of care on admission. Ultrasound faculty consent and enroll ED patients that have the sepsis BPA pop up in HealthLink. For questions, see Dr. Nikolai Schnittke or Dr. Sara Damewood.
Please send newsletter ideas and suggestions to Sharon West:
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