

Emergency Medicine Research News October 2019

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

Top Stories

EDRC Program Expands Blood Sample Collection to Main ED

The **DEM EDRC Program** has seen tremendous growth since its inception a few years ago. Since beginning blood sample collection from patients in the CDU this June, the EDRCs have successfully obtained samples from over 50 patients! As of the second week of September, the EDRC Program has expanded to the main ED to get these samples as well. This has been a huge step in advancing the skills of the program and will allow the team to take on more involved studies as the research needs of our community grow.

As always, clinical care comes first, and please communicate with the enrollers if it's not a good time for blood sample collection. The team is so appreciative of everyone's support to make this initiative successful!

18th Annual SMPH/Shapiro Student Research Forum - November 25, 2019

Save the date! The 2019 SMPH Medical Student Research Forum will take place on **November 25, 2019 from 12-5p.m. at the Health Sciences Learning Center (HSLC) Atrium**. The forum features podium and poster presentations by students and a guest lecture by a faculty mentor. Come support our Shapiro students!

WACEP 2020 Spring Symposium & 28th Annual EM Research Forum - Abstract Deadline

WACEP 2020 is just around the corner! The forum will be held on April 16, 2019 in Middleton, WI. **The abstract deadline is 4:00pm on Friday, February 14, 2020**. Abstracts must be submitted via email as a Microsoft Word document to demresearch@medicine.wisc.edu. As always, registration for the Forum only is free. Information about registration and agenda coming soon!

Kudos

-Kudos to **Michael Pulia MD MS**, whose research literature is taking the spotlight! His articles focusing on antimicrobial stewardship are featured in back to back AHRQ newsletters. **AHRQ News Now** is a weekly newsletter that highlights agency research and program activities.

In addition, one of Dr. Pulia's articles, "Antibiotics Should Not Be Routinely Prescribed After I + D", was covered in **EM:RAP's Emergency Medical Abstracts- September 2019 (Abstract 12)**. Both outlets reach a large group of providers and are great publicity for Dr. Pulia's research!



AHRQ in the Professional Literature

Antimicrobial stewardship in the emergency department. Pulia M, Redwood R, May L. *Emerg Med Clin North Am.* 2018 Nov;36(4):853-72. Epub 2018 Sep 6. Access the [abstract](#) on PubMed®.

Effectiveness of outpatient antibiotics after surgical drainage of abscesses in reducing treatment failure. Pulia MS, Schwei RJ, Patterson BW, et al. *J Emerg Med.* 2018 Oct;55(4):512-21. Epub 2018 Aug 24. Access the [abstract](#) on PubMed®.

September 17 Issue

September 24 Issue

AHRQ News Now Archive

EM:RAP - Emergency Medical Abstracts, September 2019



-Kudos to **Ryan Wubben MD** and the **UW MIA Project**, who were featured on the cover of **On Wisconsin Magazine- Fall 2019!** Their article, "A Hero Comes Home", highlights the UW's MIA Project collaboration with the Department of Defense to return the remains of a World War II pilot missing for 75 years. Sift through the article, which includes an interview with Dr. Wubben, below!

Learn more about Missing in Action



-A special kudos go out to **DEM research team members and community paramedicine coaches** who gathered at Ten Pin Alley to celebrate the successful culmination of **four years of data collection** for Dr. Manish Shah's Community Paramedicine R01 study. ROCK ON!

Upcoming/Recent Presentations (DEM authors listed)

[IDWeek 2019 annual meeting, October 2-6, 2019](#)

M. Pulia: "Human Factors Engineering in Antibiotic Stewardship" (invited oral presentation)



Upcoming Events

Breast Cancer Awareness Month

VIP Grand Rounds

Topics on the Acute Care Delivery System in the United States

October 3, 2019

10:00a.m. - 10:50a.m.

Kristin Rising, MD, MSHP

October 17, 2019

10:00a.m. - 10:50a.m.

Tien Vu, MD

IDWeek 2019 - IDSA

October 2-6, 2019

Washington, DC

Emergency Nurses Week, PA Appreciation Week

October 6-12, 2019

Emergency Services Fall Fun Event

October 6, 2019

Schuster's Farm, Deerfield, WI

ACEP 2019 Conference

October 27-30, 2019

Denver, Colorado

Halloween

October 31, 2019

2019 SMPH/Shapiro Student Research Forum

November 24, 2019

12:00p.m. - 5:00p.m. @ HSLC Atrium



Recent Publications

Manuscripts:

Baxa J, McCreary E, Schulz L, **Pulia M**. Finding the niche: An interprofessional approach to defining oritavancin use criteria in the emergency department. [The American Journal of Emergency Medicine. September 2019.](#)

Braude D, **Steuerwald M**, Wray T, Galgon R. Managing the Out-of-Hospital Extraglottic Airway Device. [Annals of Emergency Medicine. 2019; 74\(3\): 416-422.](#)

Studies Currently Enrolling in the ED

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 Uncertainty

This pilot study aims to assess the feasibility and acceptability of enrolling and surveying patients with memory changes and their caregivers in the ED. Eventually, these pilot data will be submitted for a grant to expand the study. If funded, the study would aim to understand how these patients and their caregivers make decisions about coming to the ED. Hopefully, this will help shed some light on resources that would be useful for these patients/caregivers to receive support in the community rather than seeking care in the ED. Enrollers will perform all study activities for this study, as it is a survey-based study. 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.

Engineering Safe Care Journeys for Vulnerable Older Adults

As a part of the AHRQ grant titled “Engineering Safe Care Journeys for Vulnerable Older Adults”, researchers from the Wisconsin Institute for Healthcare Systems Engineering will soon begin conducting observations in the ED to observe disposition decision-making discussions between patients and clinicians. Their intent is to better understand the disposition decision-making process for older adult patients and barriers/facilitators in the process. They will use these data to design a tool that will improve transitions from the ED to the hospital, the patient’s home and skilled nursing facilities. If you have any questions or concerns about the observations, please contact the study PI, Dr. Pascale Carayon (pcarayon@wisc.edu).

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.

Lumos FebriDx

The purpose of this study is to test a device to identify the infectious etiology (virus vs. bacteria) of patients presenting with acute respiratory symptoms. This device, called FebriDx created by Lumos Diagnostics, uses a finger stick blood sample to measure the levels of various pathogens. The hope is for this device to be widely available for patients to help guide their decisions to seek care for respiratory illnesses. In addition to the finger stick, the EDRCs will be collecting nose and throat swabs as well as blood samples to send for confirmatory testing. This study is expecting to enroll 1-2 patients per week during daytime hours. For questions, see Dr. Michael Ward or Dr. Michael Pulia.



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*Please send newsletter ideas and suggestions to Sharon West:
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