

## Emergency Medicine Research News December 2019

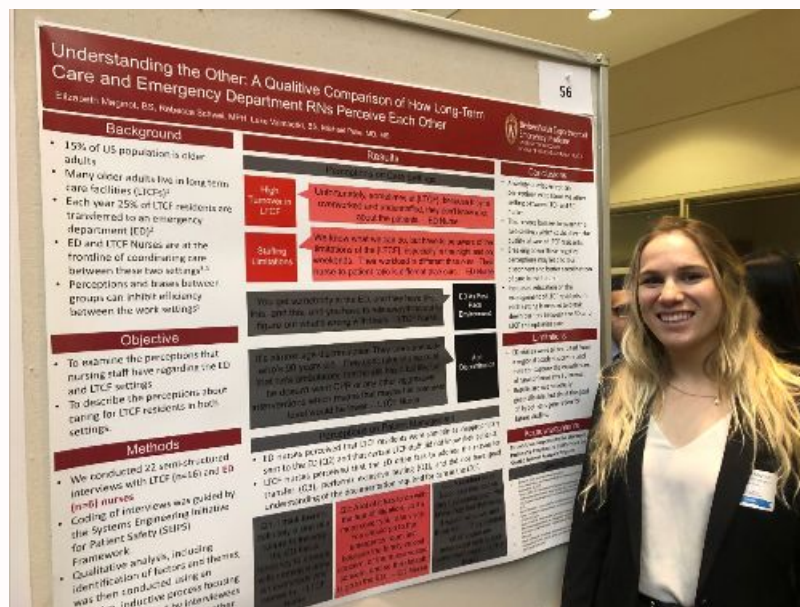
*Conducting innovative clinical and translational emergency care research to advance the health of the people of Wisconsin and beyond.*

### Top Stories

#### **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, 2020 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!

#### **18th Annual SMPH Medical Student Research Forum, November 25, 2019**



Congratulations to our **Shapiro students** for another successful year of student led research. The SMPH Student Research Forum is an annual event that showcases the research accomplishments of SMPH students, including six of our Shapiro research students (presentation titles listed below). In addition, MPH student, **Ryan Kilian**, presented his emergency medicine research as an oral presentation. Every year, over 100 students present their work through podium and poster presentations.

### Oral Presentations

**Ryan Kilian:** "Impact of Eliminating a Urinalysis with Reflex to Urine Culture on Urine Testing Patterns in the Emergency Department"

### Poster Presentations

**Alex Clegg:** "Using Electronic Health Record Data and Machine Learning to Predict Outpatient Falls After Emergency Department Visits"

**Andrew Huang:** "Communication Barriers in Treating Persons with Dementia and Leveraging Community Paramedics with the EHR to Overcome Them"

**Elizabeth Maginot:** "Understanding the Other: A Qualitative Comparison of How Long Term Care and the Emergency Department Nurses Perceive the Other Side" (pictured above!)

**Aaron Muesch:** "Measuring the Effects of History and Physical Exam on Radiographic Ordering and Findings for Geriatric Patients Evaluated after a Ground Level Fall"

**Amber Sheth:** "Assessing Emergency Care Needs of an Indigenous Community in Rural Guatemala"

**Jeremy Williams:** "The Effect of Blood Thinners on Chest Related Imaging and Outcomes for Geriatric Patients Presenting to the ED with Ground Level Fall"

### **Kudos**

-Kudos to **Michael Pulia MD MS**, for his continuing contributions to leadership in antimicrobial stewardship! His **IDWeek 2019 session**, "Human Factors Engineering in Antibiotic Stewardship", was featured on the **Society of Infectious Disease Pharmacists' (SIDP) "Breakpoints" Podcast**; Episode 3 starts at 25:20. Please check it out with the link below.

["Breakpoints" Podcast](#)

### **Upcoming Deadlines (Conferences and Awards)**

#### **National Conference Deadlines:**

[AGS 2020](#): Abstract due date - December 3, 2019

[NAEMSP 2020](#): Hotel and Early Bird Registration - December 13, 2019

[SAEM 2020](#): Abstract due date - January 2, 2020

#### **Award Submission Deadlines (National and Institutional):**

[AGS 2020 Awards](#) - December 3, 2019

[SAEM 2020 Awards](#) - December 9, 2019

[CORD 2020 \(Academy Award, Academy Legacy Mentor Award, Longevity Award\)](#) - January 6, 2020

[AAEM 2020 Awards](#) - January 12, 2020

[Lasker Foundation Awards](#) - February 3, 2020

[UW-Madison University Staff Awards](#) - February 28, 2020

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

[National Association of EMS Physicians \(NAEMSP\) annual meeting, January 6-11, 2020](#)

**M. Mancera, M. Lohmeier, MN. Shah, M. Gussick, and L. Scratish:**  
"Paramedic Perception and Preferences Regarding Quality Assurance" (poster)



### Upcoming Events

#### **Emergency Services Holiday Gathering**

December 5, 2019  
The Madison Club

#### **Prehospital Appreciation Event (A Christmas Carol)**

December 13, 2019  
The Overture Center

#### **First Day of Hanukkah**

December 22, 2019

#### **Christmas Eve/Day**

December 24-25, 2019

#### **Kwanzaa**

December 26, 2019

#### **New Year's Eve/Day**

December 31, 2019 - January 1, 2020



## Recent Publications

### Manuscripts:

**Schnittke N, Damewood S.** Identifying and Overcoming Barriers to Resident Use of Point-of-Care Ultrasound. [WestJEM. October 2019.](#)

**Schnapp B, Kraut A, Barclay-Buchanan C, Westergaard M.** A Graduated Responsibility Supervising Resident Experience Using Mastery Learning Principles. [MedEdPublish. November 2019.](#)

**Pulia MS, Keller SC, Crnich CJ, Jump RLP, Yoshikawa TT.** Antibiotic Stewardship for Older Adults in Ambulatory Care Settings: Addressing an Unmet Challenge. [JAGS. November 2019.](#)

Usman OA, Usman AA, **Ward MA.** The Comparison of Early Identification Scores in Sepsis. [The American Journal of Emergency Medicine. November 2019.](#)

## 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.

### Engineering Safe Care Journeys for Vulnerable Older Adults (Part 1)

As a part of the AHRQ grant titled "Engineering Safe Care Journeys for Vulnerable Older Adults", EDRCs will start administering surveys to older adult fall patients about their perceptions of health care. EDRCs will administer two short surveys, one in the middle of the patient's stay and one just before the patient leaves the ED. These data will serve as baseline data to evaluate a tool that will be designed to 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 project, please contact the study PI, Dr. Pascale Carayon ([pcarayon@wisc.edu](mailto:pcarayon@wisc.edu)) or Drs. Shah or Patterson.

### 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.



**BerbeeWalsh Department of  
Emergency Medicine**  
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*Please send newsletter ideas and suggestions to Sharon West:*

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