

Emergency Medicine Research News March 2019

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

Top Stories

DEM Ranked #9 in 2018 NIH Funding!



It's official! The [2018 Blue Ridge Institute for Medical Research Rankings](#) are out, and **DEM is ranked #9** in national NIH funding for Emergency Medicine, doubling its funding from 2017. An outstanding accomplishment from being unranked in 2014! Our ranking reflects the dedication and efforts of the faculty and staff of the Department of Emergency Medicine and the staff in the Emergency Department. We could never have made it without this team effort.

A special congratulations to **Manish Shah, MD MPH**, ranked #5 in the country, and to **Michael Replinger, MD PhD**, ranked #79 – both achieving higher rankings since last year.

Dr. Michael Pulia Receives Early Career Development Award

Congratulations to our own **Michael Pulia, MD MS**, for being awarded an Early Career Development Award from the [Central Society for Clinical and Translational Research](#).

His was one of five awarded from 78 outstanding applications, and he will receive a **\$10,000 grant** to continue to support his research to improve antimicrobial stewardship during the treatment of skin and soft tissue infections in the Emergency Department, following a human factors and systems engineering approach.

Upcoming/Recent Presentations (DEM authors listed)

[American Academy of Emergency Medicine \(AAEM\) annual meeting, March 9-13, 2019](#)

S. Hesse, R. Schwei, and M. Pulia: "Antibiotic Stewardship Interventions for SSTIs in the Emergency Department: A Mixed Methods Approach" (poster)

M. Pulia: "Feel the Heat – Thermal Imaging in the ED" (educational session)

[Association of American Medical Colleges \(AAMC\): 2019 Central Group on Education Affairs \(CGEA\) Spring Conference, March 27-29, 2019](#)

J. Hess: "Leveraging Interprofessional Simulation to Enhance Teamwork" (oral)

J. Hess: "Student Participation in Outpatient Quality Improvement Work in the Preclinical Years" (poster)

[International Congress on Magnetic Resonance Imaging \(ICMRI\) meeting, March 28-30, 2019](#)

M. Replinger, R. Bracken, and J. Harringa: "Diagnostic Accuracy of MR for the Evaluation of Acute Female Pelvic Pathology" (oral)

M. Replinger: "Factors Impacting Time to Completion of Magnetic Resonance Imaging in the Emergency Department" (oral)

R. Bracken, and M. Replinger: "Diagnostic Accuracy of Community versus Academic Radiologists' MR Interpretations for the Detection of Acute Appendicitis" (oral)

[International Symposium on Intensive Care and Emergency Medicine \(ISICEM\) annual meeting, March 19-22, 2019](#)

M. Pulia: "Optimal Antibiotic Use in the Emergency Department" (educational session)

M. Pulia: "Challenges to Antibiotic Stewardship" (educational session)

27th Annual Wisconsin Emergency Medicine Research Forum: Registration

The **BerbeeWalsh Department of Emergency Medicine at the University of Wisconsin-Madison**, the Department of Emergency Medicine at the Medical College of Wisconsin, and the Wisconsin Chapter – American College of Emergency Physicians are joining forces to host the **27th Annual Wisconsin Emergency Medicine Research Forum**. The forum will be held on April 4, 2019 at The Harley Davidson Museum in Milwaukee, WI.

Registration for the Forum only is free. To register, please use the link below.

[Click Here To Register](#)



Upcoming Events

AAEM 2019

March 9-13, 2019 (Las Vegas, NV)

ISICEM 2019

March 19-22, 2019 (Brussels, Belgium)

ICMRI 2019

March 28-30, 2019 (Seoul, South Korea)

CORD 2019

March 31-April 3, 2019 (Seattle, Washington)

Journal Club (Chest Pain)

Tuesday, March 12, 2019

6:30p.m.-8:30p.m.

Manish Shah, MD, MPH

Match Day

March 15, 2019



Research Lecture (Confounding and Interaction)

Thursday, March 28, 2019

9:00a.m.-9:50a.m.

Michael Ward, MD

2019 Research Forum (Research Day 2019)

April 4, 2019

The Harley Davidson Museum

400 W Canal Street, Milwaukee, WI

Recent Publications

Manuscripts:

Schnapp BH, Ritter D, Kraut AS, Fallon S, Westergaard MC. Assessing Residency Applicants' Communication and Professionalism: Standardized Video Interview Scores Compared to Faculty Gestalt. [Western Journal of Emergency Medicine. 2019; 20\(1\): 132-137.](#)

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 Perspectives on Recruiting Patients with Memory Challenges into Research

This is a qualitative study lead by Dr. Gilmore-Bykovskiy 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.



**BerbeeWalsh Department of
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UNIVERSITY OF WISCONSIN
SCHOOL OF MEDICINE AND PUBLIC HEALTH

For more news, please visit our website

*Please send newsletter ideas and suggestions to Sharon West:
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