

Emergency Medicine Research News June 2019

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

Top Stories

Manish Shah Wins the Gerson-Sanders Award - SAEM

A special congratulations go out to our own **Manish Shah MD MPH**, who has won the **2019 Academy of Geriatric Emergency Medicine Gerson-Sanders Award**, AGEM's highest honor, for his significant contributions to improving geriatric emergency care. Dr. Shah received the award at the 2019 SAEM Annual Conference in May. Dr. Shah's persistence and continuous championing of geriatric patient care in the ED setting through education and research has been committed and longstanding. Amongst many tremendous achievements, he has developed an independently-funded research program dedicated to improving acute illness care for older adults, with a specific focus on developing and testing innovative models of care for acutely ill older adults. Amazing work, Manish!



Academy of Geriatric Emergency Medicine (AGEM)

Manish Shah Collaborates on \$15 Million ADRC Grant

A huge congratulations go out to **Manish Shah MD MPH** for his role at the **Wisconsin Alzheimer's Disease Research Center**, one of ~30 NIA-funded Alzheimer's Disease Centers in the country and one of the largest research centers within SMPH. The ADRC recently received a competitive NIH grant renewal of **\$15 million** to advance research into Alzheimer's disease and other dementias. Dr. Shah co-leads a new component of the grant, the Care Research Core, which will provide infrastructure to conduct innovative studies to directly enhance patient care and change clinical practice. Way to go, Manish!

Wisconsin Alzheimer's Disease Research Center

Brian Patterson Selected as an Emerging Leader in Aging Scholar



Brian Patterson MD MPH has been selected to join the Tideswell at UCSF, AGS and ADGAP **Emerging Leaders in Aging Program** as a 2019-2020 Scholar. This highly selective and competitive program augments and leverages existing leadership skills for clinical, research, policy and educational initiatives in aging. Dr. Patterson was chosen to join the program on behalf of his demonstrated commitment to advancing policy, discovery, clinical care, and education system change in the field of aging, as well as strong leadership potential and institutional support. Congrats on this incredible achievement, Brian!

Tideswell - Emerging Leaders in Aging Program

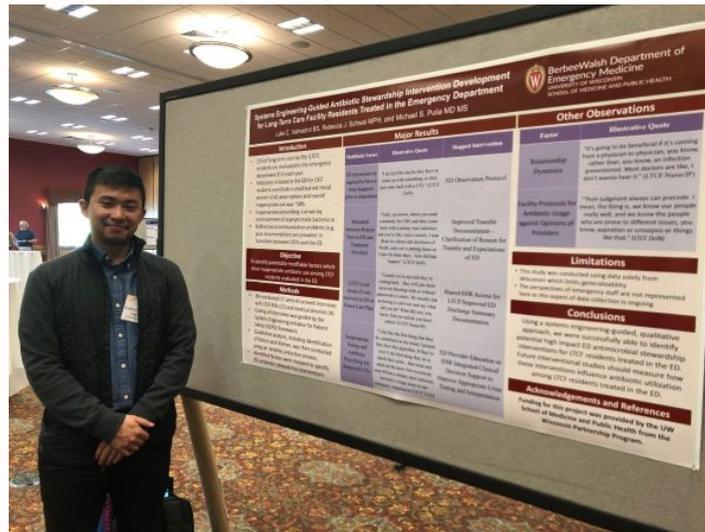
Kudos

-Congrats to **Rebecca Green MPH**, who recently defended her master's project, "Comparing ED Use among Patients with Varying Levels of Cognitive Impairment," and officially received her Master of Public Health degree from UW-Madison. Rebecca's project leveraged formal neuropsychology testing performed at Wisconsin Alzheimer's Institute clinics to diagnose patients with varying levels of cognitive impairment to create a large data set for analysis. The research focused on exploring the differences in how these groups use emergency care and analyzing those differences using the Andersen Behavioral Model of Health Services Use.



-Kudos to **Aaron Kraut MD**, whose recent WestJEM article, "The Flipped Classroom: A Critical Appraisal", was recently featured on the Physician News Network blog. The objective of this study was to review and critically appraise the medical education literature pertaining to a flipped-classroom (FC) education model, and to highlight influential papers that inform our current understanding of the role of the FC in medical education.

The Flipped Classroom: A Critical Appraisal



-Kudos to **Luke Valmadrid**, on his poster presentation, "Systems Engineering-Guided Antibiotic Stewardship Intervention Development for Long-Term Care Facility Residents Treated in the Emergency Department", at the Wisconsin Public Health Association 2019 Annual Conference held in the Wisconsin Dells, WI (May 21-23, 2019). Luke's research was part of **Dr. Michael Pulia's** project funded by the Wisconsin Partnership Program which seeks to develop an intervention that can reduce inappropriate antibiotic use for long term care facility residents in the emergency department.



Upcoming Events

VIP Grand Rounds

[Moving Beyond Guidelines and Accreditation Towards Team-Based Geriatric Emergency Care](#)

June 13, 2019

11:00a.m.-11:50a.m.

Christopher Carpenter, MD, MSC, FACEP, FAAEM

Senior Scholarship Day, June 13, 2019

DEM Graduation- Class of 2019, June 20, 2019

Independence Day, July 4, 2019

Recent Publications

Manuscripts:

Pooler BD, **Replinger MD**, Reeder SB, Pickhardt PJ. MRI of the Nontraumatic Acute Abdomen: Description of Findings and Multimodality Correlation.

[Gastroenterology Clinics of North America. 2018; 47\(3\): 667-690.](#)

Batt RJ, Tong J. Mean Service Metrics: Biased Quality Judgment and the Customer-Server Quality Gap. [Manufacturing & Service Operations Management. February 2019.](#)

[Management. February 2019.](#)

Batt RJ, Bavafa H, **Soltani M**. Quality Improvement Spillovers: Evidence From the Hospital Readmissions Reduction Program. [Social Science Research Network. December 2018.](#)

[Network. December 2018.](#)

Batt RJ, KC DS, Staats BR, **Patterson BW**. The Effect of Discrete Work Shifts on Nonterminating Service System. [Production & Operations Management. January 2019.](#)

[January 2019.](#)

Hopkins JB, Roginski MA, Braude DA, **Cathers AD**, Johnson T, **Steuerwald MT**. Troubleshooting Hypoxemia After Placement of an Extraglottic Airway. [Air Medical Journal. 2019; 38\(3\): 228-230.](#)

Andrews CM, Wyne K, **Svenson JE**. The Use of Traditional and Complementary Medicine for Diabetes in Rural Guatemala. [Journal of Health Care for the Poor and Underserved. 2018; 29\(4\): 1188-1208.](#)

[Journal of Health Care for the Poor and Underserved. 2018; 29\(4\): 1188-1208.](#)

Letter to the Editor:

Jacquet GA, Sarfaty S, **Tupesis JP**. Comments on 'Protecting the health of medical students on international electives in low-resource settings'. [Journal of Travel Medicine. 2018; 25\(1\).](#)

Book Chapters:

Strickland B, **Ward MA**, Ahn J. Chapter 32: Mental Health Issues in Geriatrics. Behavioral Emergencies For The Healthcare Provider, 2nd Edition. New York, NY: McGraw-Hill. In Press.

Ward MA, **Tupesis JP**. Chapter 37: Pediatric Seizure. First Aid for the Emergency Medicine Oral Boards, 2nd Edition. New York, NY: McGraw-Hill. 2018.

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.

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.



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

For more news, please visit our website

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