Emergency Medicine Research News
September 2018

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

Top Stories

Dr. Repplinger Featured in Radiology Podcast, August 2018

Congratulations to our own Michael Repplinger, MD, PhD who was prominently highlighted for his work in the latest Radiology podcast for his article “Prospective Comparison of the Diagnostic Accuracy of MR Imaging versus CT for Acute Appendicitis.” The interview starts at minute 25, please access the podcast with the link below.

Link to Podcast

Procalcitonin: Promise and Pitfalls

Our own Michael Pulia, MD, MS, was interviewed for another article regarding procalcitonin, this time for the American College of Physicians (ACP) Hospitalist publication. Dr. Pulia and Dr. Bartho Caponi (one of our UW Hospitalist physicians) are prominently featured in the piece. Dr. Pulia was referenced for his research efforts in antimicrobial stewardship. This article highlights that uptake of procalcitonin testing has been slow in U.S. hospitals, but experts say the biomarker could help with antibiotic stewardship efforts. Congrats Mike!

Link to article
Upcoming/Recent Presentations (DEM authors listed)

The American Society of Emergency Radiology (ASER) annual meeting, September 26-29, 2018

M. Repplinger and R. Bracken: “Diagnostic Accuracy of Community versus Academic Radiologists’ MR Interpretations for the Detection of Acute Appendicitis.” (oral abstract presentation)

M. Repplinger, R. Bracken, and J. Harringa: “Diagnostic Accuracy of MR for the Evaluation of Acute Female Pelvic Pathology.” (oral abstract presentation)

The 10th Annual World MRSA Day Kickoff Event & C. difficile Summit, September 29, 2018

Keynote Speaker: Michael Pulia, MD, MS

Upcoming Events

VIP Grand Rounds (topics TBD)  The Ride (bicycle benefit for cancer research)
September 13, 2018 - Kavita Babu, MD Sunday, September 23, 2018
Starting in Sun Prairie, WI

Research Lecture  ASER 2018
(Perspective, observational studies) Thursday, September 6, 2018
9:00a.m - 9:50a.m.  September 26 - 29, 2018
Michael Pulia, MD, MS  Washington, DC

ACEP 2018  IDWeek 2018
October 1 - 4, 2018  October 3 - 7, 2018
San Diego, CA  San Francisco, CA

EM Nursing Appreciation Week
October 7 - 13, 2018
Recent Publications

Manuscripts:


Books and Book Chapters:


Protocols Recently Approved by the EMRC

1. Michael Pullia, MD, MS, and Ryan Killian: "Impact of Reflex Urine Culture Order on Appropriateness of Antibiotic Prescribing for UTIs in the ED"
2. Joshua Denny, MD: "All of Us Research Program" (NIH-sponsored program)
3. Andrea Gilmore-Bykovskyi, PhD, RN: "Development of Tailored Approaches for Optimizing Research Engagement among Disadvantaged Patients with Alzheimer's disease and their Caregivers in Acute Care Settings"

Studies Currently Enrolling in the ED

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.

Cobas® vivoDx MRSA Clinical Performance Study Protocol
The purpose of this study is to evaluate the performance of a new Roche investigational test that is designed to detect live MRSA in nasal samples collected from the nose in less than six hours. We will swab participants' noses two times in each nostril and then the samples will be brought to the lab for analysis. For questions, see Dr. Manish Shah or Dr. Mike Pullia.

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 Pullia.

Benefits of the EDRE Program
- Increased ability to identify and enroll participants from the Emergency Department
- Excellent adherence to study protocol
- Complete, accurate and high quality data collection procedures
- Regular communication with study team regarding recruitment progress
New Faces

Glen Ellen (Glennie) Mihalovic

Research Enroller - Glennie will be working with our ED Enroller Team and will report to Becky Schweir. Glennie graduated with a BS in Biology from the University of Wisconsin – Madison. Glennie has worked as a Research Coordinator for a pediatric cardiology study at Columbia University in New York, NY; she also served as a Prenatal Care Coordinator for the Phillips Family Practice at the Institute for Family Health in New York, NY. In addition to her interest in research and care coordination, she has also dabbled in medical education, working as an Educational Services Assistant for the Department of Family Medicine here at UW-SMPH. Glennie hopes to attend medical school at UW-SMPH. In her free time, she enjoys running, swimming, cooking/baking (which is always welcome here!), reading, and outdoor activities.

Her email is: gemihalo@medicine.wisc.edu

Funded Research Studies

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<td>M. Kim</td>
<td>Ica and Izabela Reilly Baldwin Wisconsin Idea Endowment</td>
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<td>Health IT process for VTE</td>
<td>B. Patterson (Co-I)</td>
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<td>Preventing Future Falls among Older Adults</td>
<td>B. Patterson (PI)</td>
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<td>Testing Novel Methods for Analyzing and Correcting Root Causes of Patient Harm</td>
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<td>Improving Antibiotic Stewardship for Long Term Care Facility Residents in the ED</td>
<td>M. Pulia (PI)</td>
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<td>Improving Antibiotic Stewardship During the Treatment of Skin &amp; Soft Tissue Infections in the ED</td>
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<td>Identifying Barriers and Facilitators to the Implementation of Radiation-Free Imaging Protocols in the ED</td>
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<td>Teamwork &amp; Care Transitions in Pediatric Trauma: Implications for HIT Design</td>
<td>J. Ross (Co-I)</td>
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<td>Disseminating Child Abuse Clinical Decision Support to Improve Detection, Evaluation and Reporting</td>
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<td>Paramedic-Coached ED Care Transitions</td>
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<td>Mentoring and Research in Geriatric Emergency Care</td>
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