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

-Top Stories-

19th Annual SMPH Medical Student Research Forum, November 23, 2020

Congratulations to our Shapiro students for another successful year of student led research. The SMPH Medical Student Research Forum is an annual event that showcases the research accomplishments of SMPH students, including four of our Shapiro research students! Every year, over 100 students present their work through podium and poster presentations. This year, the forum was held in a virtual format and all students gave brief oral presentations on their research.

Derek Steck: "Exploring Staff Understanding of Code Status and Treatment Limitations at UW Health"
Ian Wolf: "Antibiotic Prescribing Patterns for COVID-19 patients in the UW Emergency Department"
Simon Yadgir: "Machine Learning Assisted Screening for Cognitive Impairment in the Emergency Department"

View 2020 Student Research Forum Abstracts

Dr. Michael Pulia Presents During Baystate IHDPS Seminar, November 18, 2020

Congrats to Michael Pulia MD MS, Director of the Emergency Care for Infectious Diseases (EC-ID) Research Program, who was invited to present during the November 18, 2020 Baystate IHDPS (Institute for Healthcare Delivery & Population Science) seminar! Dr. Pulia's live presentation, "Human Factors Engineering Applied to Antibiotic Stewardship", was part of Baystate IHDPS's Research in Progress Seminar series. IHDPS is a collaboration between Baystate Health, the University of Massachusetts Medical School, and the University of Massachusetts Amherst School of Public Health. Awesome job, Mike!

Upcoming/Recent Presentations (DEM authors listed)
3rd Annual UPMC Children's Hospital of Pittsburgh Child Abuse Clinical Decision Support Conference, October 21-22, 2020

J. Ross: "Moving Beyond Cerner: Bringing EPIC and All-Scripts into the Picture" (oral presentation)

J. Ross: "Evaluation of child maltreatment using CA-CDS: Alerting providers and Offering Order Sets" (facilitator of consensus group)

D. Hekman: "The Child Abuse Dashboard - RealTime Tracking in the ED" (oral presentation)

Kudos

-Kudos to members of our UW ED COVID-19 Response Team, Michael Pulia MD MS, Josh Ross MD, Ciara Barclay-Buchanan MD, Josh Glazer MD, and Nicholas Kuehnel MD, who were invited to present during the October 22, 2020 HHS/ASPR (U.S. Department of Health and Human Services Office of the Assistant Secretary for Preparedness and Response): Project Echo COVID-19 Clinical Rounds! Their session, "ED Operational Redesign to Enhance Infection Control During the Pandemic", was led by Dr. Pulia and Drs. Ross, Barclay-Buchanan, Glazer, and Kuehnel served as invited expert guest panelists.

Oct. 22, 2020 - Session Recording

Download the PowerPoint Presentation

-Kudos to Michael Pulia MD MS, who was invited to serve on the UW SMPH Student Research Committee (SRC)! Dr. Pulia will make a great addition to the committee, given his experience serving as an award-winning mentor for student research projects!

-Kudos to Ben Schnapp MD MEd, who was selected as one of the inaugural participants in the 2021-2022 class of the SAEM ARMED MedED (Advanced Research Methodology Evaluation and Design Medical Education) course! This course builds upon the fundamental knowledge and skills of health professions education researchers and equips them to design a high-quality medical education research project and grant proposal.

-Recent Publications-

Manuscripts:


**Upcoming Events**

**DEM Grand Rounds**
December 3, 2020 - 10:00am-11:00am
Kate Prior, MD
*Lessons from the frontline: both medical and personal*

**First Day of Hanukkah**
December 10, 2020

**Christmas Eve/Day**
December 24-25, 2020

**First Day of Kwanzaa**
December 26, 2020

**New Year's Eve/Day**
December 31, 2020 - January 1, 2021

**NAEMSP 2021 (virtual conference)**
January 11-16, 2021

*happy holidays*
Conference Deadlines:
AMIA CIC 2021 (Abstract Due Date) - December 6, 2020
ISMRM 2021 (Abstract Due Date) - December 16, 2020
SAEM 2021 (Abstract Due Date) - January 4, 2021
AGS 2021 (Abstract Due Date) - January 13, 2021

Award Submission Deadlines (National, International, and Institutional):
CORD 2021 (Various Awards and Grants) - December 7, 2020 : January 4, 2021 : February 5, 2021
SAEM 2021 (Annual Meeting Awards) - December 9, 2020
AAEM 2021 (AAEM/RSA Awards) - December 31, 2020
ACEP/EMRA (National Emergency Medicine Medical Student Award) - January 1, 2021
AGS 2021 (Annual Meeting Awards) - January 13, 2021
UW-Madison Academic Staff Awards - January 22, 2021
AMIA 2021 (Doctoral Dissertation Award) - January 31, 2021
Lasker Foundation Awards - February 1, 2021
UW-Madison University Staff Awards - February 21, 2021

-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.

BinaxNOW Rapid COVID Test Validation
The purpose of this study is to validate a new rapid COVID test by Abbott in a cohort of asymptomatic patients. The EDRCs will be screening for potentially eligible patients and obtaining two nasal swabs from those interested. All ED staff are also eligible for this study and may participate if they wish; subjects are paid $20 for participation and will not be informed of results from the tests. For questions, see Dr. Brian Patterson or 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 two 30-second recordings 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 (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) or Drs. Shah or Patterson.

**Evaluation of ANP Assay in Acute Heart Failure**
The purpose of this study is to evaluate a new assay for diagnosing and assessing the severity of Acute Heart Failure in patients presenting to the ED. This test is created by Beckman Coulter, Inc. and uses a blood draw to look for certain biomarkers present during episodes of heart failure. In addition to patient questions and chart review, EDRCs will work with ED staff to collect blood and then perform simple processing on it prior to sending it to the sponsor for testing. This study is expecting to enroll 2-3 patients per week. For questions, see Dr. Michael Ward.

**Integrating mHealth for Alcohol Use Disorders into Clinical Practice**
The purpose of this study is to use mobile health technology to support patients wishing to balance alcohol consumption with their other health goals. The EDRCs will be screening for potentially eligible patients and informing them of the study - no study activities will take place in the ED. The EDRC team is working with Dr. Andrew Quanbeck from the Department of Family Medicine and Community Health on this implementation study to see how the app his team has developed integrates into patients' lives. For questions, see Dr. Manish Shah or Dr. Brian Patterson.

**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.

**The Role of Aspiration in Community Acquired Pneumonia**
The purpose of this study is to assess patients with probable pneumonia for swallowing problems and study the role of aspiration. This study is being done in collaboration with Dr. Nicole Rogus-Pulia’s lab in Speech and Language Pathology to study patients' saliva and swallowing patterns. EDRCs will administer a survey, a bedside water swallow test, and collect saliva samples from participants presenting to the ED for pneumonia. This study is expecting to enroll 1-2 patients per week. For questions, see Dr. Michael Pulia.

**TREAT NOW Assessment of Early COVID Treatment on Outpatients**
The purpose of this study is to evaluate the efficacy of lopinavir/rotinavir on the outcomes of ambulatory patients diagnosed with COVID-19. EDRCs will call patients who recently tested positive for COVID-19 and offer them study participation over the phone. Patients agreeing to participate will be mailed the drug or a placebo and followed for 30 days. This study is in collaboration with Vanderbilt University, and no study activities will take place in the ED. For questions, see Dr. Michael Ward.

-Discover DEM-
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