Emergency Medicine Research News

January 2021

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

-Top Stories-

WACEP 2021 Spring Symposium & 29th Annual EM Research Forum - Abstract Deadline

Save the date! WACEP 2021 is just around the corner. The symposium and forum will be held on April 8, 2021 as a virtual event. The abstract deadline is 5:00pm on Friday, February 5, 2021. Abstracts must be submitted by email as a Microsoft Word document of 350 words or less to demresearch@medicine.wisc.edu. More information regarding abstract guidelines can be found on the research forum website using the link below. As always, registration for the forum only is free. For more information about the conference, agenda, and registration, visit WisconsinACEP.org.

Dr. Michael Pulia Speaks During National Webinar for Vizient

Congrats to Michael Pulia MD MS, who presented during a national webinar on December 14th, 2020 hosted by Vizient, the largest member-driven, health care performance improvement company in the country. Dr. Pulia, a member of the 2020-2021 Vizient National Research Project Team - Antimicrobial Stewardship, led the initial portion of the webinar, "Impact of COVID-19 on Antimicrobial Stewardship in Acute Care: National Research Project Kickoff", to discuss the impact of COVID-19 on emergency medicine antibiotic prescribing practice.

12/14/2020 Webinar Recording
Dr. Michael Pulia Invited to Present at the 2020 ABSSD Meet the Masters Event

Congratulations to Michael Pulia MD MS, who was invited to present at the American Board of Swallowing and Swallowing Disorders (ABSSD) Annual Meet the Masters Event! The event is an ongoing continuing education course which consists of 7 pre-recorded sessions from dysphagia experts to provide timely, critical information about the assessment and treatment of dysphagia during the COVID pandemic. Dr. Pulia's session, "SARS-CoV-2/COVID-19: A Primer for Deglutologists", provided a broad overview of the pathophysiology underlying SARS-COV-2/CoVID-19 and its clinical manifestations.

Kudos

-Kudos to Michael Pulia MD MS, who is staying busy in the community! On December 5th, Dr. Pulia spoke at the WDHS (Wisconsin Department of Health Services) Emergency Medicine/Urgent Care Antimicrobial Stewardship Subcommittee Meeting, "Optimizing Antimicrobial Stewardship in the ED: Challenges and Opportunities". Of note, Dr. Pulia is the Co-Chair of this subcommittee.

On December 7th, Dr. Pulia was invited to speak about COVID-19 updates at the Rotary Club of Milwaukee North Shore. Thanks for all you do, Mike, to keep our community safe and informed!

-Kudos to Michael Pulia MD MS, who was invited to serve on the European Society of Clinical Microbiology and Infectious Diseases (ESCMID) ED Antibiotic Stewardship Guideline Committee! This international group is working towards creating standards for ED stewardship.

-Kudos to Michael Pulia MD MS, who served as an invited expert for the Delphi procedure on a recent paper which developed quality metrics for ED antibiotic stewardship. The Delphi procedure is a method of congregating expert opinion through a series of iterative questionaries, with a goal of coming to a group consensus.

-Recent Publications-

Manuscripts:


Jacobs EA, Schwe R, Hetzel S, Mahoney J, Sebastian K, DeYoung K, Frumer J, Madlof J,


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**Upcoming Events**

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

**Martin Luther King Jr. Day**
January 18, 2021

**DEM Journal Club (Critical Care)**
January 28, 2021
11:00am - 1:00pm
Drs. Patterson, Darsie, and Glazer

*happy new year!*
Conference Deadlines:

AGS 2021 (Abstract Due Date) - January 13, 2021
AcademyHealth 2021 (Abstract Due Date) - January 14, 2021
WACEP EM Research Forum 2021 (Abstract Due Date) - February 5, 2021

Award Submission Deadlines (National, International, and Institutional):

AGS 2021 (Annual Meeting Awards) - January 13, 2021
UW-Madison Academic Staff Awards - January 22, 2021
AMIA 2021 (Doctoral Dissertation Award) - February 1, 2021
Lasker Foundation Awards - February 1, 2021
CORD 2021 (Education Grants) - February 5, 2021
UW-Madison University Staff Awards - February 21, 2021
ACEP 2021 (Leadership/Council Awards) - March 1, 2021
GSA 2021 (Biological Sciences Minority Investigator Travel Awards) - March 12, 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.

Cue Health Monitoring System COVID-19 Rapid Test
The purpose of this study is to validate a new rapid COVID test by Cue Health in a cohort of both symptomatic and asymptomatic patients. The EDRCs will be screening for potentially eligible patients and approaching them for participation. Patients will be given all study materials to complete the self-test using the Cue Health Mobile App, and then EDRCs will obtain one nasal swab for reference testing. Subjects will get their result in real-time from the App, and any further testing or care will be at the discretion of the ED treating team. For questions, see Dr. Brian Patterson or 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) 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.

Romantic Couples, Medications, and Health at Time of ED Visit
The purpose of this study is to develop relationship-based predictors of prescription opioid use among older adults. EDRCs will approach patients presenting to the ED with injuries who also have a romantic partner present for participation. Interested couples will complete one survey in the ED and the patient will complete a short follow-up survey at 30 days. This study is being done in collaboration with Dr. Lauren Papp in the School of Human Ecology. For questions, see Dr. Michael Repplinger.

The Role of Aspiration in Community Acquired Pneumonia
The purpose of this study is to assess patients with suspected pneumonia for dysphagia and examine the potential 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.

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