Chief Flight Physician, Dr. Michael Abernethy Published in JAMA

Congrats to Michael Abernethy MD, Chief Flight Physician, who was invited to write an expert commentary in *JAMA Network Open* in response to a newly published cohort study from Denmark assessing HEMS vs. GEMS (helicopter vs. ground EMS) on patient outcomes (1-year mortality). As a leader in international HEMS & GEMS operations and policymaking, Abernethy was invited by *JAMA*’s editors to review the Danish study’s design and comment on the validity of similar studies done in the U.S., which has a long history of disparity in its HEMS and GEMS programs. Abernethy, a HEMS physician and expert for over 30 years, discusses how comparative research studies have struggled to accurately compare prehospital transport models due to many confounding factors, including barriers to translate research findings into regulatory action. We commend Dr. Abernethy’s work as this commentary is very timely. Given their potential to influence the care delivered to our communities, analyses in the U.S. should be undertaken to mitigate bias and disparities in the existing literature.

Read the Full Invited Commentary Here!

Dr. Manish Shah Featured on *Dementia Matters* Podcast

Manish Shah MD MPH, was a featured guest on a recent episode of the ADRC's *Dementia Matters* podcast. *Dementia Matters* is sponsored by the Wisconsin Alzheimer’s Disease Research Center. The podcast helps humanize Alzheimer’s disease, by speaking
with the experts in the community to keep the public informed on the latest headlines, research studies, and caregiver resources. Dr. Shah’s episode, released January 27, 2021, discusses his research and recent NIH grant that aims to reduce ED visits for dementia patients.

In addition, Dr. Shah shares tips for a safe/successful ED visit. These tips were compiled into an article based on the podcast, outlining the difficulties people with dementia face in the ED and how caregivers can improve an ED visit for someone with dementia. To read the full article, please see the link below.

"6 Tips for Emergency Department Visitors with Dementia and Their Caregivers"
Kudos

-Kudos to Drs. Brian Patterson, Mike Repplinger, Ben Schnapp, Jim Svenson, and Mike Ward, for presenting at the January 18, 2021 EMIG (Emergency Medicine Interest Group) Research Panel! This was a great opportunity for our faculty members to share their words of wisdom and encouragement to EM-interested medical students. Thanks for inspiring our future EM physicians!

Upcoming/Recent Presentations (DEM authors listed)

IMSH Delivers 2021 Virtual Conference, January 19-March 31, 2021

R. Thompson, J. Glazer: "Just-in-time Interprofessional COVID-19 Intubation Training Improves Healthcare Team Preparedness" (oral research abstract, 1/22/21)

Rhode Island Hospital - Brown University Department of Diagnostic Imaging Radiology Grand Rounds, January 20, 2021

M. Repplinger: "Imaging Pulmonary Embolism: Why You Should Consider MRA" (virtual presentation)

DEM RESEARCH PROGRAM VIRTUAL BULLETIN BOARD

-Recent Publications-

Manuscripts:


-Upcoming Events-

**National Women Physicians Day**
February 3, 2021

**DEM VIP Grand Rounds**
Pre-Ox Like a Pro
February 4, 2021
10:00am - 11:00am
Steve Carroll, DO, MEd

**National Wear Red Day**
February 5, 2021

**St. Valentine's Day**
February 14, 2021

**Critical Care Transport Nurses Day**
February 18, 2021

**Conference Deadlines:**
- [WACEP EM Research Forum 2021 (Abstract Due Date)](#) - February 5, 2021
- [AMIA Informatics Summit 2021 (Early Registration Deadline)](#) - February 18, 2021
Award Submission Deadlines (National, International, and Institutional):

- **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
- **AAEM 2021 (Select Awards)** - March 21, 2021
- **GSA 2021 (Select Awards)** - March 31, 2021

-Check out our [Academic Meetings and Awards Informational Spreadsheet](#)-

**-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
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 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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