-Top Stories-

**Dr. Brian Patterson Published in the Annals of Internal Medicine**

What was the impact of social distancing on control of the COVID-19 pandemic in specific US regions with varying demographics and adherence to social distancing measures?

Dane County, Wisconsin
Milwaukee metropolitan area
New York City

Model considered regional:
- Social interactions
- Demographics
- Testing availability
- Imported infections
- Asymptomatic transmission
- Age-specific adherence to social distancing measures

Timing of social distancing had major impact

In NYC as of 5/31/20
- 1 week earlier: cases 203,261 → 41,366
- 1 week later: cases 203,261 → 1,407,600

Congrats to Brian Patterson MD MPH, who was recently published in one of the most widely-cited medical journals in the world, the Annals of Internal Medicine! The article, titled "Effect of Timing of and Adherence to Social Distancing Measures on COVID-19 Burden in the United States: A Simulation Modeling Approach", is based on his research study that quantifies the region-specific impact of social distancing measures on the COVID-19 caseload in three distinct areas: New York City, the Milwaukee metropolitan area, and Dane County in Wisconsin. The study was led by researchers from the UW College of Engineering and SMPH including Oguzhan Alagoz PhD, Nasia Safdar MD PhD, Ajay Sethi PhD MPH, Brian Patterson MD MPH, and Matthew Churpek MD PhD MPH. In
Dr. Michael Pulia Partners with the Wisconsin Department of Health Services to Improve Antibiotic Stewardship Across WI

Michael Pulia MD MS, Director of Emergency Medicine Antimicrobial Stewardship, has partnered with the new Wisconsin Department of Health Services Director of Antibiotic Stewardship, Dr. Barry Fox, to improve antibiotic prescribing in urgent cares and emergency departments throughout the State of Wisconsin. On this opportunity, Dr. Pulia commented, “Given the anticipated acceleration of bacterial resistance due to increased antibiotic use during the pandemic, it is more important than ever to work towards improving antibiotic stewardship in acute care settings. I look forward to working with Dr. Fox on stewardship initiatives that account for the work systems and clinical concerns of front line providers, especially as they confront the challenge of COVID-19.” Congrats, Mike, on this exciting leadership role!

Dr. Janis Tupesis Inducted into the Order for the International Federation of Emergency Medicine

Janis Tupesis MD, Associate Director of the UW-Madison Global Health Institute, was selected for induction into the Order for the International Federation of Emergency Medicine in 2020, an honor given to an individual in recognition of their extensive and continuous contributions to emergency medicine in their own country and internationally. Dr. Tupesis has been involved with the organization for 10 years and was elected to the Board of Directors in June. The official induction ceremony is scheduled to occur in Dubai in 2021. Cheers to you and your vision, Janis!
Dr. Michael Pulia Invited to Speak at HHS/ASPR: Project Echo COVID-19 Clinical Rounds

Michael Pulia MD MS, Director of the Emergency Care for Infectious Diseases (EC-ID) Research Program, was invited to present on ED infection control during the COVID-19 pandemic at 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! Each session includes brief presentations from experienced expert clinicians, followed by a Q&A discussion. Way to go, Mike!

HHS/ASPR: Project Echo COVID-19 Clinical Rounds Archive

World Antimicrobial Awareness Week - November 18-24, 2020

World Antimicrobial Awareness Week, sponsored by the World Health Organization (WHO), aims to increase awareness of global antimicrobial resistance (AMR) and to encourage best practices among the general public, health workers and policy makers to stop the further emergence and spread of drug-resistant infections.

As resistance grows to a wider range of drugs, the WHO has broadened the focus of their campaign from antibiotics to all antimicrobials. This campaign is especially important in 2020 as the misuse of antibiotics during the COVID-19 pandemic could lead to accelerated emergence and spread of antimicrobial resistance. COVID-19 is caused by a virus, not by a bacteria and therefore antibiotics should not be used to prevent or treat viral infections, unless bacterial infections are also present.

U.S. Antibiotic Awareness Week (USAAW), sponsored by the CDC, is the concurrent campaign here in America. Additionally, Be Antibiotics Aware: Smart Use, Best Care, is a year-round effort to improve antibiotic prescribing and use and combat antibiotic resistance. To learn more about how you can get involved, visit the campaign websites and/or participate on social media!

#USAAW20 #BeAntibioticsAware #WAAW #AntibioticResistance

United to Preserve Antimicrobials
Upcoming/Recent Presentations (DEM authors listed)

American Society of Emergency Radiology (ASER) Annual Meeting, September 30 - October 3, 2020
Awarded Cum Laude (3rd place) - Best Scientific Oral Presentation!
B. Triche (1st author), J. Glazer: "Prospective assessment of positive oral contrast for CT in the ED for non-traumatic abdominal pain" (podium presentation)

American College of Emergency Physicians (ACEP) Annual Meeting, October 26-29, 2020
H. Kuttab, S. Damewood, J. Schmidt: "Cardiopulmonary Ultrasound in Sepsis: A Pilot Study" (abstract)
H. Kuttab, M. Hughes, MA. Ward: "Delayed Second Dose Antibiotics in Severe Sepsis and Septic Shock" (abstract)

13th Annual Conference on the Science of Dissemination and Implementation in Health, December 15-17, 2020
GC. Jacobsohn, R. Green, M. Lohmeier, MN. Shah: "Implementation of a community paramedic-delivered care transitions intervention for older adults following emergency department discharge" (virtual poster presentation)

Kudos

-Kudos to Manish Shah MD MPH, whose recent NIH grant award has been highlighted as a top story on the UW SMPH News & Events Homepage! The BerbeeWalsh Department of Emergency Medicine is one of four sites awarded a total of $7.5 million from the NIH to conduct research that could lead to improved care in emergency departments for people with dementia. Check out the UW SMPH Press Release for the fully story.

-UW SMPH Press Release

-Kudos to Michael Repplinger MD PhD, who participated as a panelist during the October 19, 2020 WPA-WACEP (Wisconsin Psychiatric Association - Wisconsin Chapter of the American College of Emergency Physicians) Emergency Psych Task Force Webinar, Advances in Medical Stabilization for Psychiatric Patients in the Emergency Department. Dr. Repplinger, Co-Chair of the task force, and task force members discuss their white paper, "Medical Clearance' of Patients With Acute Mental Health Needs in the Emergency Department: A Literature Review and Practice Recommendations," which was published in WMJ (Jan. 2020), as well as the resulting Wisconsin SMART form to assist in the emergency medical treatment process for patients with mental health needs.

-Oct. 19, 2020 - Webinar Recording

-Kudos to Michael Pulia MD MS, whose article titled "COVID-19: An Emerging Threat to Antibiotic Stewardship in the Emergency Department" was recently featured in the AAEM...
**-Recent Publications-**

**Manuscripts:**


**-Upcoming Events-**

**Election Day**
November 3, 2020

**ICMRI 2020 (virtual conference)**
November 3-4, 2020
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
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.
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 or Dr. Michael Pulia.

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