



Penn Medicine

Department of Emergency Medicine

*The 12th Annual*

EMERGENCY MEDICINE  
RESEARCH  
DAY

APRIL 10, 2024 • 9:00 AM - 2:00 PM

Smilow Center for Translational Research  
Rubenstein Auditorium  
3400 Civic Center Boulevard  
Philadelphia, PA 19104

Program

# OVERVIEW

*9:00 AM - 10:00 AM*

**KEYNOTE SPEAKER**  
BERNARD P. CHANG, MD, PHD

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*10:30 AM - 12:00 PM*

**PLENARY ORAL  
ABSTRACT PRESENTATIONS**

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*12:00 PM - 12:45 PM*

**LUNCH // POSTERS &  
EXHIBITS**

*12:45 PM - 2:00 PM*

**LIGHTNING ORAL  
ABSTRACT PRESENTATIONS**

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# KEYNOTE SPEAKER

9:00 AM - 10:00 AM

## ***Occupational Stressors of Working in Medicine: The Intersection of Psychological and Physical Health***



**BERNARD P. CHANG,  
MD, PHD**

Tushar Shah and Sarah Zion Endowed Associate Professor, Department of Emergency Medicine, Vagelos College of Physicians and Surgeons at Columbia University

Dr. Chang is Vice Chair of Research and Associate Professor of Emergency Medicine at Columbia University. Trained as a psychologist and an emergency physician, his research has focused on the relationships between psychological and physical health in patients and providers. He is currently the Principal Investigator of several ongoing nationally-funded studies, including one of the nation's largest longitudinal studies on clinician psychological and cardiovascular health. Notably, Dr. Chang was one of the earliest investigators in the specialty of Emergency Medicine to be awarded an independent investigator award (R01) by the National Institutes of Health (NIH). He has been recognized with numerous awards including the Lamport Prize, the American College of Emergency Physician-Established Investigator Award (NY), and the Young Investigator Award from the Society for Academic Emergency Medicine. He is an elected fellow to the Academy of Behavioral Medicine and New York Academy of Medicine and served as a board member of the Alumni Board of Governors at Stanford University Medical Center, and Board of Directors at the American College of Physicians (NY Chapter).

# 2024 ABIGAIL AND GARY CONRAD AWARD

*for Outstanding Research in Emergency Medicine*

Presented to

## **BERNARD CHANG, MD, PHD**

The award was established in 2013, in honor of Zachary Conrad, by his parents Abigail and Gary. Zachary is a cardiac arrest survivor who received state-of-the-art treatment at HUP, in part developed through Emergency Medicine research. Past recipients of this award include:

Stephen Trzeciak, MD, MPH	March 2013
Jeremy Brown, MD	April 2014
Sheldon Cheskes, MD	March 2015
Lynne Richardson, MD	April 2016
Federico Vaca, MD, MPH	April 2017
Jesse Pines , MD, MBA, MSCE	March 2018
Corita Grudzen, MD, MSHS	March 2019
Harrison Alter, MD, MS	April 2021
Karin Verlaine Rhodes, MD, MS	April 2022
Ula Hwang, MD, MPH	April 2023

THANK YOU TO THE 2024 EM RESEARCH DAY EXHIBITORS:



# PLENARY ORAL ABSTRACT PRESENTATIONS

*10:30 AM - 12:00 PM*



**10:30 AM - 10:45 AM**

Comparative effectiveness of a dedicated overdose response EMS unit compared to traditional EMS on subsequent overdose outcomes

Abby Dolan, MPH



**10:45 AM - 11:00 AM**

Emergency nurses' reasons for not recommending their hospital to clinicians as a good place to work: A qualitative analysis

K. Jane Muir, PhD, RN, FNP-BC



**11:00 AM - 11:15 AM**

Computed tomography assessment after out-of-hospital cardiac arrest resuscitation

Saleem M. Halablab, MD

# PLENARY ORAL ABSTRACT PRESENTATIONS

*10:30 AM - 12:00 PM*



**11:15 AM - 11:30 AM**

Effect of a digital engagement strategy on health care worker mental health: A randomized controlled trial

Lauren Southwick, MPH



**11:30 AM - 11:45 AM**

Identifying low acuity emergency department visits with a machine learning approach

Angela T. Chen, MA (MS-3)



**11:45 AM - 12:00 PM**

Randomized trial of behavioral engagement strategies and streak incentives to promote seat belt use and reduce distracted driving

Jeffrey Ebert, PhD

# LIGHTNING ORAL ABSTRACT PRESENTATIONS

*12:45 PM - 2:00 PM*



**12:45 PM - 12:50 PM**

Fatal and nonfatal firearm injury rates by race and ethnicity in the United States, 2019-2020

Jamie Song, MPH



**12:52 PM - 12:57 PM**

Buprenorphine precipitated withdrawal in hospitalized patients with opioid use disorder

Austin S. Kilaru, MD, MSHP



**12:59 PM - 1:04 PM**

A qualitative investigation of Black patient perspectives on racism and emergency care

Rachel E. Gonzales, MPH



**1:06 PM - 1:11 PM**

Leading the generation to optimize stroke care in the emergency department

Sinead D. Hellings, MSN, RN, CEN

# LIGHTNING ORAL ABSTRACT PRESENTATIONS

*12:45 PM - 2:00 PM*



**1:30 PM - 1:35 PM**

Trends and disparities in asthma admission from the pediatric emergency department

Laura F. Sartori, MD, MPH



**1:37 PM - 1:42 PM**

Rates and factors associated with overdose among substance-using young adults presenting at the emergency department

Arleen Lopez Cruz, BA



**1:44 PM - 1:49 PM**

A randomized controlled trial to link emergency department patients to assistance with public benefits (The LEAP Study)

Aliza Haider, BA



**1:51 PM - 1:56 PM**

Effect of high-sensitivity cardiac troponin on ED dwell time in chest pain patients

Leon Jia, MD (PGY-3)



# POSTER ABSTRACT PRESENTATIONS



Emergency medicine residency program leadership well-being: Results from a national survey

Anish K. Agarwal, MD, MPH, MS



Characterization of young adults accessing buprenorphine telehealth in Philadelphia, PA

Nicole O'Donnell, BA, CRS



Exploring cultural and community context for substance use interventions in West Philadelphia

Jasmine S. Barnes, MPH



Qualitative evaluation of a hospital security program for engaging communities with firearm safe storage devices and interventions

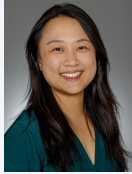
Laurel Adams, MBA



Study protocol: A retrospective case-control study on using digital data to predict cardiovascular disease and healthcare utilization

Veronica Murgulescu, BS

# POSTER ABSTRACT PRESENTATIONS



Emergency medicine 2023 unfilled match positions by geography and corporate ownership

Angela G. Cai, MD, MBA



Geography of the underserved: The contribution of rural non-trauma hospitals to trauma care

Jamie Song, MPH



A descriptive analysis of security searches among emergency department and hospitalized patients with substance use disorders

Sarah Nessen, BA (MS-3)



Crossing the line: Access to trauma care across state borders

Satvika L. Kumar, BA (MS-3)

# ACKNOWLEDGEMENTS

Thank you to the EM Research Day  
Planning Committee:

Aarthi Kaviyarasu  
Anish Agarwal  
Dena Torrente  
Eileen McDonnell  
Elizabeth Moore  
Frances Shofer  
Jill Ringold  
Natasha Balogh  
Nicholas Benson  
Shaun McGovern  
Benjamin Abella

This event is under review for **4.5 NCPD hours** for nurse/RN learners by attendance at this activity in its entirety, and completion of the program's evaluation form. Penn Medicine Nursing is approved as a provider of nursing continuing professional development by Pennsylvania State Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation. Approval # 136-3-H-22.

Additionally, Emergency Medicine faculty members will be eligible to receive up to **5 EVU credits** at this event.