

2nd Global Symposium of Research Methodology Innovation in Trauma and Emergency Care May 22-23, 2024

Wednesday, May 22

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| 8:00-8:45 a.m. | Registration and Breakfast | Lobby |
| 8:45-9:00 a.m. | Opening Remarks | Cynthia Gerhardt, PhD |
| 9:00-10:00 a.m. | Opening Keynote Trauma Research: Public Health, Epidemiology, Clinical Study and Translational Science | Henry Xiang, MD, MPH, PhD |
| 10:00-10:15 a.m. | Break | |

Session 1: Innovative Research Methods in Trauma and Emergency Care

Moderator – Steven MacEchem, PhD

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| 10:15-10:40 a.m. | “Pedi-PART: A Novel Bayesian Adaptive Sequential Comparison Platform Trial Of Paramedic Prehospital Airway Management In Critically Ill Children” | Henry Wang, MD |
| 10:40-11:05 a.m. | “Bayesian Sample Size Re-Estimation For Adaptive Trauma Trials” | James Matuk, PhD |
| 11:05-11:30 a.m. | “Analysing Youth Concussion Data: Group-Based Trajectory Group-Based Trajectory and Bidirectional Association” | Enas Alshaikh, PhD |
| 11:30-11:55 a.m. | “Linking Investigations In Trauma And Emergency Services (Lites) Prehospital Airway Control Trial (Pact) Design, Methods, And Progress” | Stephen Wisniewski, PhD |

11:55-1:30 p.m Lunch

Session 2: Causal Inference Methods for Observational and Medical Record Data

Moderator – Bo Lu, PhD

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| 1:30-2:30 p.m. | Keynote: Modern Causal Inference Approaches for Health Services | Sharon-Lise Normand |
| 2:35-3:00 p.m. | “Impact Of Childhood Obesity on Pediatric Trauma Outcomes: Retrospective Analysis of Data from Level II Pediatric Trauma Center” | Briana Lewis, MS |
| 3:00-3:25 p.m. | “Decision Tree to Predict Hospital Discharge Disposition for Elderly Traumatic Brain Injury Patients” | Biche Osong, PhD |
| 3:25-3:50 p.m. | “The Potential and Utility Of Artificial Intelligence (Ai) In Predicting Pediatric Trauma -A Scoping Review” | Maleeha Naseem, MS, PhD |
| 3:50-4:15 p.m. | “Flexible Template Matching for Trauma Care Effectiveness Evaluation” | Ruochen Zhao, PhD candidate |
| 4:15-4:25 p.m. | “Overtriage Of Transfers to The Pediatric Trauma Center: The Importance of Minor Head Injury” | Joseph Piatt, MD, FAAP |

4:30-6:00 p.m. Reception

Thursday, May 23

8:00-8:30 a.m. Continental Breakfast

8:30-8:45 a.m. Welcome and introductions

Jonathan Groner MD & Rajan Thakkar, MD
 Julie Josse

8:45-9:45 a.m. Keynote: Advancing Trauma Triage: Leveraging Causal Inference, Missing Value Techniques, and Uncertainty Quantification in the Traumatrix Project

Session 3: Global Experience in Building Regional Trauma Care Systems and Research Capacity

Moderator – Yingjun Xu, MD

9:50-10:10 a.m. “The Application of Second Near-Infrared Imaging In The Field Of Trauma”

Aixi Yu, MD, PhD

10:10-10:20 a.m. “Cerebral Perfusion Pressure Monitoring for Severe Traumatic Brain Injury in Children”

Yong Sun, MD

10:20-10:30 a.m. “Enhancing Healthcare Access and Quality: Assessing the Impact of Public-Private Partnerships in Mbarara City, Southwestern Uganda”

Justus Asasira, MA, PhD

10:30-10:40 a.m. “A Randomized Controlled Study on Epidemiological Characteristics of Child Injury Based on Haddon Matrix and Digital Health Intervention”

Xiaofang Cai, MD

10:40-10:50 a.m. “Efficacy analysis of radiofrequency catheter ablation combined with atrial appendage resection for atrial tachycardia originating from the atrial appendage in children”

Yong Zhang, MD

10:50-11:00 a.m. “Comparison Of Therapeutic Effects Between Open Reduction And Closed Reduction Internal Fixation In The Treatment Of Displaced Femoral Neck Fractures In Young Adults”

Zhenyu Pan, MD, PhD

Session 4: Global Experience in Training Trauma Researchers

Moderator – Rachel Stanley, MD

11:00-12:00 p.m. Dissemination and Implementation Science in Medicine – Title TBD

Jing Li, MD

12:00-1:00 p.m. Lunch

Session 5: Digital Health, Virtual Reality, and Emerging Horizon in Trauma and Emergency Care Research

Moderator – Henry Wang, MD, PhD

1:00-1:15 p.m. “One-4-ALL Initiative: Innovation in Process and Technology to Address Health Disparities While Reducing Clinician Burden”

Shannon N. Acker, MD

1:15-1:30 p.m. “Simulation-based research and virtual reality for training and assessment”

Tensing Maa, MD

1:30-1:45 p.m. “Road Design and Visual Environment Induce The Risky Speeding Behaviors Of Teen Drivers”

Amita Kar, PhD



1:45-2:00 p.m. “R2drv: Navigating the Road To Recovery – A Longitudinal Study On The Impact Of Mild Traumatic Brain Injury (Mtbi) On Driving Performance And Behaviors In Young Drivers”

Christopher Rundus, PhD

Session 6: Dissemination and Implementation Science

Moderator

2:00-2:15 p.m. Closing Comments and Adjourn

Henry Xiang, MD