### Core Content

- Finding, Accessing, and Synthesizing Health Science Lectures
- Publishing and Promoting your Research
- Introduction to Global Health Research & Research Imperialism
- Introduction to Public Health Research
- Introduction to Clinical Research, Components of a Research Project, Clinical Trials
- Developing a Research Question
- Research Ethics
- Overview of Research Grants
- Introduction to Data Analysis, Graphical Descriptive Techniques
- Numerical Descriptive Measures of Central Tendency and Variability
- Numerical Measures of Relative Standing, Box Plots, z-scores, Outliers, Scatterplots
- Introduction to Probability Distribution, Discrete and Continuous Random Variable
- Normal Distribution, Checking for Normal Distribution
- Goodness of Fit and 2×2 Contingency Table
- Statistical Decision Making, Estimation, Interval Estimation and its Interpretation
- Hypothesis Testing and Observed Significance Level
- Sample Size and Power Calculations
- Comparing Two Population Means: Independent Sampling and Paired t-test
- Basic of Linear Regression and its Interpretation
- Introduction to Epidemiology
- Environmental Epidemiology
- Global Health Partnerships
- Community Based Participatory Research
- Asset Based Community Development
- Impact of Mobilizing the Younger Generation’s Collaborative Efforts in Global Health Administration
- Communication and Effective Healthcare
- Global Perspectives of Cancer
- Civilian War Trauma and Torture Global Impact
- Global Perspectives of Metabolic Diseases
- Global Perspectives of HIV Research
- Global Trauma and EMS
- Big Data/ Machine learning
- Linking Research to Reality: Implementation Science
- Developing Relationships with Pharmaceutical Companies

### Track Content

#### Maternal and Child Health
- Postpartum Hemorrhage
- Infections (postpartum/intrapartum)
- Pre-eclampsia
- Newborn/Infant Care
- Neonatal Sepsis
- Adolescent Depression
- Allergy and Immunology

#### Emergency Medicine
- Introduction to ED clinical research
- Registry and “Big Data” EM research
- ED Clinical Protocol Development and Validation
- Introduction to Non-Communicable Disease Research in the ED
- Cardiovascular Disease Research
- Stroke Research
- Researching ED processes (ED Ethics, triage, throughput etc.)
- WHO Emergency Care - Implementation & Future Directions
- Trauma Research
- Disaster Research / Surveillance
- Emergency Care Networks / EFIC / WIC

#### Communicable Disease
- Introduction to Infectious Disease Interventional Studies
- Mixed Methods Study Design Development: Learning through the lens of Vaccines and AMR
- Design and Implementation of Trials: Setting your Research Up for Successful Data Collection
- Ethics of Immediate Research During Emergency Disasters: Conduct During Outbreak Investigations
- Understanding Lab Based Surveillance of Infectious Disease for Research
- Harmonizing Research and Clinical Experiences
- Building a Research Based Diagnostic Portfolio for Novel Infectious Disease Research

#### Behavioral Health
- How Neuroscience Can Inform an Understanding of Behavioral Health
- Research in Trauma and Anxiety
- Imaging Tools in Neuroscience Research
- Research on Newer Drugs of Abuse
- Addiction Research

#### Special Topics
- COVID-19
- Outbreak investigation
- Dr and Rx
- Research and development for drugs and vaccines

### Library Sciences

- CLINICAL RESEARCH

### BIOSTATISTICS

- EPIDEMIOLOGY

### GLOBAL AND PUBLIC HEALTH

- GLOBAL PERSPECTIVES

### Special Topics