



OPEN MEDICAL INSTITUTE

SEMINAR REPORT

CLINICAL RESEARCH METHODS

April 9-15, 2023

A Global Educational Initiative by the
American Austrian Foundation



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32 fellows
from **26** countries



6 interactive
workshops



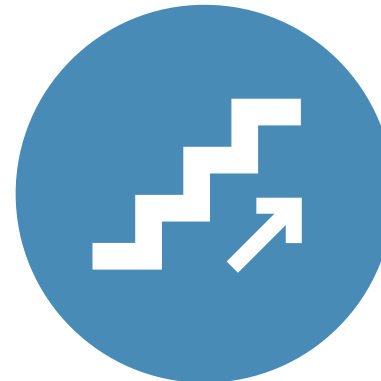
4 faculty members
from the USA



521 applications



14 didactic lectures



30 alumni
leadership program

GROUP PHOTO





| | | Sunday 09.04.2023 | Monday 10.04.2023 | Tuesday 11.04.2023 | Wednesday 12.04.2023 | Thursday 13.04.2023 | Friday 14.04.2023 | Saturday 15.04.2023 |
|-------|-------|--|---|---|--|--|---|------------------------|
| 07:00 | 08:00 | | BREAKFAST | BREAKFAST | BREAKFAST | BREAKFAST | BREAKFAST | DEPARTURES |
| 08:00 | 09:00 | | Introductions Pre-Seminar Test | Quantitative Survey Design Sage Myers, MD, MSCE | Program Evaluation Rachel Myers, PhD, MPH | Epidemiologic Measures of Association Allison Curry, PhD | Research Ethics Christine Forke, PhD, MSN | |
| 09:00 | 10:00 | | Descriptive Study Designs Allison Curry, PhD, MPH | Introduction to Data Management Sage Myers, MD, MSCE | | | Systematic Reviews Christine Forke, PhD, MSN | |
| 10:00 | 10:30 | | COFFEE BREAK | COFFEE BREAK | COFFEE BREAK | COFFEE BREAK | COFFEE BREAK | |
| 10:30 | 11:30 | | Analytic Study Designs Christine Forke, PhD, MSN | Qualitative Research Methods Rachel Myers, PhD, MPH | Evaluating Diagnostic Tests Sage Myers, MD, MSCE | Hypothesis Testing & Biostatistics Christine Forke, PhD, MSN | Writing and Publishing a Manuscript Allison Curry, PhD, MPH | |
| 11:30 | 12:30 | Making Prognostic Decisions Sage Myers, MD, MSCE | | | Presenting Your Research Allison Curry, PhD, MPH | | | |
| 12:30 | 14:00 | | LUNCH | LUNCH | LUNCH | LUNCH | LUNCH | |
| 14:00 | 15:00 | | Workshop 1: Developing a Research Question Allison Curry, PhD, MPH Workshop 2: Study Design Workshop Christine Forke, PhD, MSN | Workshop 1: Survey Design Workshop Sage Myers, MD, MSCE | Free Afternoon | Workshop 1: Epi Measures of Association Rachel Myers, PhD, MPH | Post-Seminar Test Evaluation & Discussion | |
| 15:00 | 16:00 | | | Workshop 2: Qualitative Methods Workshop Rachel Myers, PhD, MPH | | Workshop 2: Biostatistics Christine Forke, PhD, MSN | | |
| 16:00 | 17:00 | | | | | | | |
| 17:00 | 18:00 | | <u>17:00 - 17:15</u> OMI Presentation | | | | | |
| 18:00 | 19:00 | FACULTY MEETING TO REVIEW THE WEEK | | | | | FAREWELL RECEPTION | |
| 19:00 | 20:00 | WELCOME RECEPTION & DINNER | DINNER | DINNER | DINNER | DINNER | GRADUATION DINNER Certificates Awarded | |
| 20:00 | 21:00 | | | | | <u>20:30 - 21:30</u> CHAMBER MUSIC CONCERT | | |

Learning Objectives for Participants

At the conclusion of this seminar, the participant should be better able to:

1. Apply the various components associated with conducting rigorous research in clinical and community settings.
2. Develop and justify research questions relevant to their field of practice, identify study designs and methodologies that appropriately address these questions, and collect and analyze quantitative and qualitative data to answer these questions.
3. Conduct high-quality research to evaluate clinical programs, examine diagnostic tests, and improve the quality of clinical care.
4. Report and disseminate research findings via scientific presentations, systematic reviews, and peer-reviewed manuscripts.

ACCME Accreditation Statement

Children's Hospital of Philadelphia is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

AMA Credit Designation Statement

Children's Hospital of Philadelphia designates this live activity for a maximum of 28 *AMA PRA Category 1 Credits*[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.



**Allison Curry, PhD, MPH
(Course Director)**

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Allison Curry, PhD, MPH is an Associate Professor of Pediatrics at the University of Pennsylvania Perelman School of Medicine and a Senior Scientist and Director of Epidemiology and Biostatistics at the Center for Injury Research and Prevention at the Children's Hospital of Philadelphia (CHOP) in Philadelphia, USA. She is a PhD-level injury epidemiologist by training and her research focuses on the epidemiology and prevention of motor vehicle crashes across the lifespan. Dr. Curry is the principal investigator of research funded by the US National Institute of Health that aims to establish the scientific foundation for driving safety among teens with attention-deficit hyperactivity disorder and autism spectrum disorder. She is also faculty at Penn's Master of Public Health program, where she supports graduate students in conducting independent research and public health projects. She previously served as an instructor for the 2017 OMI Clinical Research Methods course and is excited to be able to return to Salzburg! Alli has three teenage children, to whom she has passed on her passion for international travel and learning about different cultures.



Christine Forke, PhD, MSN

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Christine Forke, PhD, MSN is part of the core teaching faculty in the Master of Public Health Program at the Perelman School of Medicine at the University of Pennsylvania (Penn). She is affiliated with the Center for Public Health Initiatives and the Ortnor Center for Family Violence at Penn as well the Center for Injury Research and Prevention and the Center for Violence Prevention at CHOP. Dr. Forke also is a member of the Steering Committee and Co-Chairs the Research Workgroup for the Philadelphia Adverse Childhood Experiences (ACEs) Task Force. Dr. Forke has expertise in quantitative, qualitative, and mixed-method designs, and her primary areas of interest include childhood and adolescent trauma, interpersonal and teen dating violence, reproductive health, and access to care. Her current work focuses on delineating individual, family, and neighborhood stressors and protective factors that impact well-being, particularly in marginalized communities, and identifying low-cost, evidence-based, and sustainable approaches that may improve health outcomes by mitigating risks associated with childhood adversity. She is a licensed and nationally certified pediatric primary care nurse practitioner who specializes in adolescent health.



Rachel Myers, PhD, MPH

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Rachel Myers, PhD, MPH is a Research Assistant Professor of Pediatrics at the University of Pennsylvania Perelman School of Medicine and a research scientist at the Center for Injury Research and Prevention at the Children's Hospital of Philadelphia (CHOP). She serves as co-director for the Community Violence and Trauma Support programs within the CHOP Center for Violence Prevention. Dr. Myers is a public health researcher whose research focuses on both intentional and unintentional pediatric and adolescent injury prevention and recovery. Her research addresses the epidemiology of intentional pediatric injuries and evaluation of hospital-based and community-focused programming to support recovery of injured youth and their families. Additionally, with community partners, Dr. Myers co-leads several community-based participatory research projects to develop tools and refine approaches to support community-based violence prevention programming in measuring and demonstrating their impact.



Sage Myers, MD, MSCE

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Sage Myers, MD, MSCE is an Associate Professor of Pediatrics and attending physician in pediatric emergency medicine at the Children's Hospital of Philadelphia. She graduated from the University of Massachusetts School of Medicine and completed pediatric residency and chief residency at Yale-New Haven Hospital. Fellowship training in pediatric emergency medicine was completed at The Children's Hospital of Philadelphia. Dr. Myers holds a master's degree in epidemiology and biostatistics through the University of Pennsylvania. Her research has included work demonstrating disparities in outcomes for pediatric injury across hospitals, epidemiology of injury mortality and novel pediatric resuscitation research. Her research has been supported by grants from the National Institutes of Health and Department of Health and Human Services. She serves as the Medical Director for Emergency Preparedness, Associate Trauma Director of Emergency Medicine, and Chair of the Resuscitation Review Committee. Dr. Myers served as Pediatric Medical Director for Operation Allies Welcome at the Philadelphia Airport. She is a member of the Pediatric Emergency Care Applied Research Network (PECARN) and has served as site-PI for multiple PECARN studies.

FELLOWS



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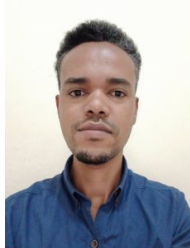
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OMI VOICES

Faculty Feedback

"It was such an honor for us to come to the OMI to share our expertise in clinical research methods with colleagues from around the world. I appreciate that there was ample opportunity for didactic lectures, lively discussions, and informal chats at shared meals. I am leaving the week having learned just as much from the participants about the rewards and challenges of conducting clinical research in various countries. I am already eagerly awaiting my next visit!"

Allison Curry, PhD, MPH

Clinical Research Methods



OMI VOICES



“ The faculty’s step-by-step explanation of how to conduct data analysis was outstanding. This information is extremely useful in the daily practice of all researchers.

Samson Arveladze, MD
OMI fellow from Israel



“ I am extremely grateful to the faculty for their well-structured lectures and excellent content. It was clear that a lot of effort went into preparing this course, as everything went smoothly and was well-organized.



Aleksandra Šavrova, MD
OMI fellow from Estonia



“ Measurement errors and common biases that may occur in an epidemiological study were discussed, and these are important factors for me, as this will be applied to my research in Vietnam.

Quang D. Pham, MD
OMI fellow from Vietnam



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