

ISEE Early morning session proposal

Proposal submitted by Lizbeth Gomez, MPH, PhD Candidate

Title: Enhancing the Quality and Generalizability of Clinical Trials through Environmental Epidemiology: Opportunities and Challenges

Objective:

The objective of this session is to bring together clinical trials and environmental epidemiology researchers to explore how knowledge, methods, and insights from environmental epidemiology can enhance the quality and generalizability of clinical trials. The session will focus on the potential benefits of incorporating environmental factors in clinical trial design, the ethical considerations associated with including environmental exposure data, and the challenges of translating findings from clinical trials to real-world settings and how environmental epidemiology may help improve these translations.

Abstract:

Environmental factors play a crucial role in human health, and understanding their impact is imperative for improving public health outcomes. However, clinical trials often overlook the influence of environmental exposures, potentially limiting the generalizability and applicability of their findings. Leveraging knowledge, methods, and insights from environmental epidemiology can enhance the quality and generalizability of clinical trials by accounting for the impact of environmental factors on human health.

This session will bring together interdisciplinary experts to address the opportunities and challenges associated with incorporating environmental exposure data in clinical trial research. The discussion will explore the potential benefits of including environmental factors in clinical trial design, the ethical considerations of collecting and using this data, and the challenges of translating clinical trial findings to real-world settings. The session will also examine strategies for promoting collaboration between clinical trials and environmental epidemiology researchers.

The insights and recommendations generated during this session will provide a foundation for developing a comprehensive framework that incorporates environmental exposure data in clinical trials, ultimately contributing to improved public health outcomes by enhancing the quality and generalizability of clinical trial research.

The significance of this session would be to promote interdisciplinary collaboration, advance research methodologies, and ultimately contribute to improved public health outcomes by bridging the gap between clinical trial data and environmental epidemiology. The insights and recommendations generated during this event will lay the groundwork for a comprehensive framework that facilitates the integration of clinical trial data into environmental epidemiology studies, paving the way for a better understanding of the complex relationship between environmental factors and human health.

Proposed Panelists

- Jane E. Clougherty, MS, ScD
- Fernando Holguin, MD, MPH
- Cavin Ward- Caviness, PhD

Panel Program:

Total time: 60 minutes

Introduction: 5 minutes

Welcome and Opening Remarks: Lizbeth Gomez introduces the conference panel's theme and objectives.

Brief Introduction of Panelists: Each panelist gives a quick introduction of themselves, and their work related to clinical trials and environmental epidemiology.

Ferando Holguin, MD –20 minutes

Leads discussion on the differences between clinical trial world and epidemiology

Introduces the audience to the difference in how data is used and interpreted in clinical settings versus epidemiology

Jane E. Clougherty, MS, ScD: 10 minutes

Dr. Clougherty discusses how knowledge, methods, and insights from environmental epidemiology can enhance the quality and generalizability of clinical trials.

Lizbeth Gomez, MPH: 5 minutes

Treatment efficacy vs effectiveness & how incorporating environmental epidemiology can make the results more generalizable.

Cavin ward-Caviness, PhD: 10 minutes

Innovative Methods: Discussion of innovative methods and technologies in environmental epidemiology that can be beneficial for clinical trials.

Audience Q&A: 10 minutes

Open Floor for Questions: Lizbeth Gomez opens the floor for audience members to ask questions to the panelists.

Closing Remarks: 2 minutes

Thank You: Lizbeth Gomez acknowledges and thanks the panelists and audience for their participation.