

ISPOR Real-World Evidence Summit 2024

Sunday, 17 November, 2024 | Barcelona, Spain
A co-located event at ISPOR Europe 2024



Session 2: Methods for Causal Inference Using Real-World Data

Moderator:

Uwe Siebert

UMIT TIROL & Harvard University

Introduction & Motivation of the Panel

Moderator:



Uwe Siebert, MD, MPH, MSc, ScD

Professor and Dept. Chair of Public Health, Medical Decision Making and HTA
UNIT TIROL - University for Health Sciences and Technology, Austria
Adj. Prof. of Epidemiology and Health Policy & Management, Harvard University

Speakers:



Barbra Dickerman, PhD

Assistant Professor of Global Cancer Prevention, Department of Epidemiology
Harvard T.H. Chan School of Public Health, Cambridge, MA, USA



Nicholas Latimer, PhD, MSc

Professor of Health Economics
University of Sheffield & Delta Hat Limited, Sheffield, UK



Sebastian Schneeweiss, MD, ScD

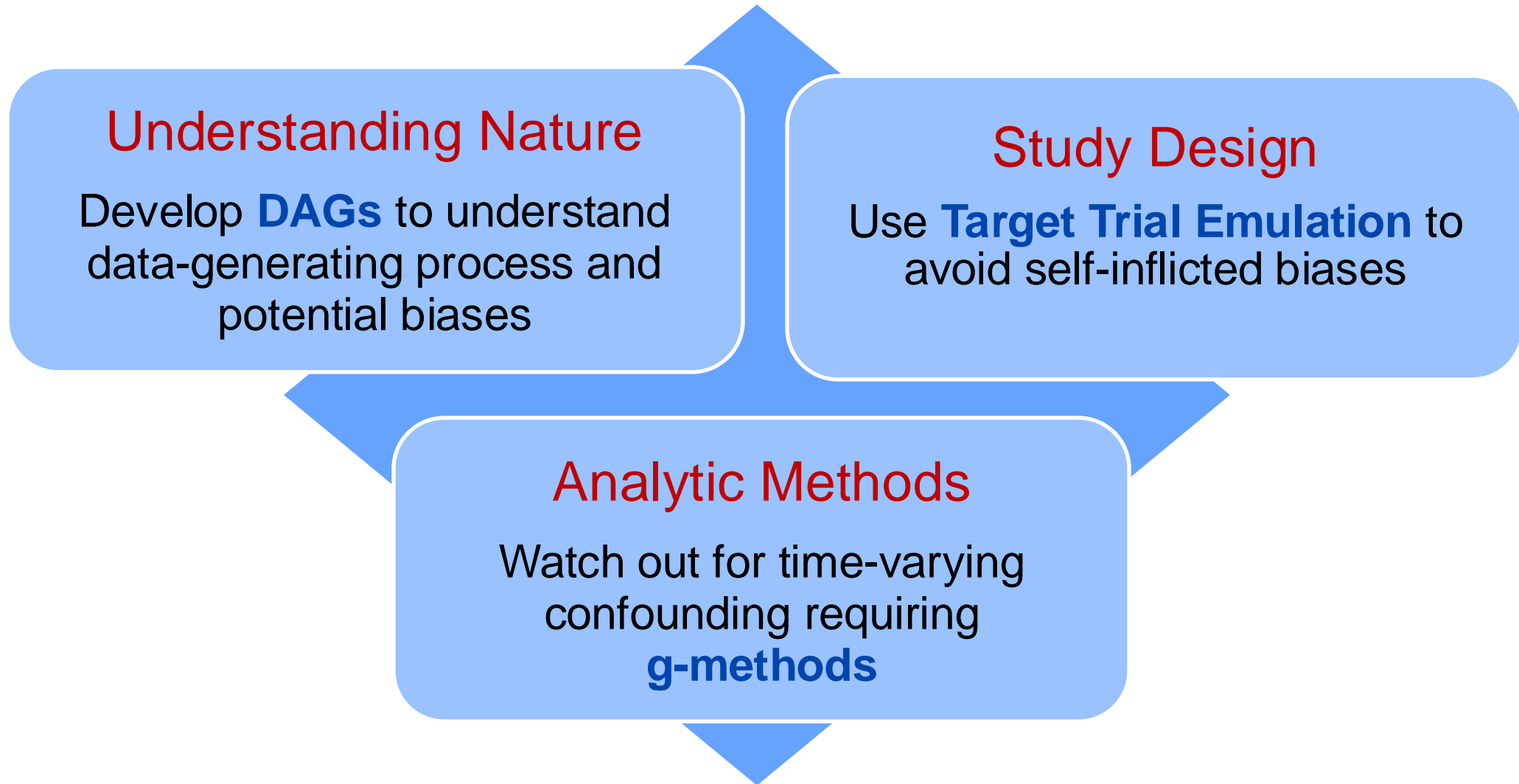
Professor of Medicine, Chief of the Division of Pharmacoepidemiology,
Brigham and Women's Hospital, Harvard Medical School, Boston, MA, USA

Polling Question

How much experience do you have with causal inference methods for RWE?

- A. I am a **novice** in causal inference methods.
- B. I am familiar with **basic causal inference methods** but have not been involved in any RWE studies applying these methods.
- C. I have been **actively involved** in RWE studies in which causal inference methods were applied.
- D. I have **conducted and programmed a data analysis** for an RWE study in which advanced causal inference methods have been applied (e.g., target trial emulation and/or g-methods).

Causal Inference - Design & Methods



Understanding Nature

Develop **DAGs** to understand data-generating process and potential biases

Study Design

Use **Target Trial Emulation** to avoid self-inflicted biases

Analytic Methods

Watch out for time-varying confounding requiring **g-methods**

Causal Inference - Data, Estimands, Contrasts & Decision Making

