

Selection bias

DES Fall meeting 2023

Date: Monday September 11th to Tuesday September 12th 2023

Location: Day 1: Statens Institut for Folkesundhed, Copenhagen; Day 2: Kulturhuset, Islands Brygge, Copenhagen

DAY 1 – *Intended for junior researchers*

The 1st day of the DES fall meeting is intended for junior researchers such as students, research assistants, PhD students, postdocs, assistant professors and other researchers.

10:00-10:30 Check In

10:30-12:30 Teaching Session – Introduction to selection bias, Julie Werenberg Dreier and Oleguer Plana-Ripoll

Lecture: Introduction to selection in epidemiological research (30 min)

Workshop: Using quantitative bias analysis to address selection bias (1h30m)

12:30-13:30 Lunch

13:30-15:30 Discussion of own research

Each participant will submit an abstract of their own work, including a specification of 1-3 methodological questions/issues, which they would like to discuss. Time slots of 15-20 minutes will be allocated to each researcher (i.e., we will make groups of 6-8 students each) – the student should present their work, followed by feedback from peers and moderators + discussion of their questions

15:30-16:00 Break

16:00-17:00 Timothy Lash, Rollins Professor and Chair, Department of Epidemiology, Rollins School of Public Health, Emory University, USA

- *Selection bias: how to avoid it, what to do when you can't*

17:00-18:30 Social activity - Petanque inclusive guide at Boulebar

19:00-21:00 Dinner at Boulebar restaurant

21:00- Goodnight or bar for those who wish to continue the night

Note: The program includes the social activity and dinner. Please let us know if you are not participating.

DAY 2 – Open for all

10:00-10:40 Arrival, and small breakfast

10:40-10:45 Introduction and welcome

10:45-12.15 Selection bias in epidemiological research

10:45-11:25 **Timothy Lash**, Rollins Professor and Chair, Department of Epidemiology, Rollins School of Public Health, Emory University, USA

- *Selection bias: past, present, and future directions*

11:25-11:35 Short break (10 min)

11:35-12:15 **Peter Linde**, Cand. scient i matematisk statistik, tidligere metode- og surveychef i Danmarks Statistik.

- *What are we weighting for?*

12:15-13:15 Lunch

13:15-14:15 Addressing selection bias – examples

13:15-13:35 **Nanna Weye**, Postdoc, Department of Clinical Epidemiology, Aarhus University and Aarhus University Hospital.

- *Mental disorders and selection in the Danish National Health Survey*

13:35-13:55 **Heidi Amalie Rosendahl Jensen**, PhD-student, National Institute of Public Health, University of Southern Denmark.

- *The impact of non-response weighting in health surveys for estimates on primary health care utilization*

13:55-14:15 **Gitte Lindved Petersen**, Postdoc, Steno Diabetes Center Copenhagen

- *Unmasking self-selection bias in real-world data by means of register linkage: Is inverse probability weighting the key to the lock?*

14:15-14:30 Extraordinary general assembly

Voting on change in the statutes of DES, to allow for free membership for honorary members of the society

14:30-15:00 Coffee break

15:00-16:00 Methodological considerations of selection mechanisms in sibling designs **Thomas Frisell**, Principal Researcher, Department of Medicine, Karolinska Institutet

- *Selection Bias in the Sibling Comparison Design*

16:00-16:15 Short break

16:15-17:00 Schroll Prize 2023

17:00- Light dinner and mingling