Practice Seminar "Epidemiological Methods 2"
WS 2024/25

Pre-requisites: basic knowledge of regression models (e.g. MB2, PS Epidemiological Methods 1)
Time: Monday 16:00-19:15

CLASS DATES	DESCRIPTION	SPEAKERS
October 14th, 2024	Course overview Preparation for future exercises - R installation - Introduction of data files - Refresher on linear, logistic and Cox regression models in R Introduction to causal inference (1,5)	Michael Kammer Susanne Strohmaier
October 21st	Graphical models for causal inference - DAGs - Alternatives to DAGs Exercises on graphical models on paper, using daggity and R	Michael Kammer Susanne Strohmaier
October 28th	Adjustment for confounding and corresponding estimands for point treatments Exercises on Weighting G-formula (by hand) G-formula tricks	Michael Kammer Susanne Strohmaier
November 4th	Challenges in time-to-event analysis Methods for complex data structures Exercises on adjusted survival curves, RMST, competing risk analysis	Michael Kammer Susanne Strohmaier
November 11th	Mediation and effect modification Exercise on mediation and effect modification	Michael Kammer Susanne Strohmaier
November 18th	Instrumental variables/Mendelian Randomisation	Rebecca Richmond