

Winter semester 2021-2022

"N-of-1 trials and other modern study designs" seminar
Stefan Konigorski

3 ECTS

Block	Session	Topic	Day	Date	Time (Berlin)	Room/zoom
A Intro	1	Class onboarding Overview of classic and modern study designs	Tuesday	2021.10.26	15:15 - 16:45	
	2	Introduction to N-of-1 trials I	Tuesday	2021.11.02	15:15 - 16:45	
	3	Introduction to N-of-1 trials II	Tuesday	2021.11.09	15:15 - 16:45	
	4	Micro-randomized trials & other modern study designs	Tuesday	2021.11.16	15:15 - 16:45	
B Selected topics	5	Ethics, data privacy and other requirements of digital studies	Tuesday	2021.11.23	15:15 - 16:45	
	6	Standard methods for individual analysis of N-of-1 trials	Tuesday	2021.11.30	15:15 - 16:45	
	7	Standard methods for aggregated analysis of N-of-1 trials	Tuesday	2021.12.07	15:15 - 16:45	zoom
	8	Bayesian regression models for N-of-1 trials	Tuesday	2021.12.14	15:15 - 16:45	
	9	Meta analysis & network meta analyses	Tuesday	2022.01.11	15:15 - 16:45	
	10	Sample size calculation for N-of-1 trials	Tuesday	2022.01.18	15:15 - 16:45	
	11	Adaptive designs	Tuesday	2022.01.25	15:15 - 16:45	
C Projects	12	Statistical methods for the analysis of MRTs	Tuesday	2022.02.01	15:15 - 16:45	
	13	Final project presentations I	Tuesday	2022.02.08	15:15 - 16:45	
	14	Final project presentations II	Tuesday	2022.02.15	15:15 - 16:45	

Plan as of September 18, 2021. Subject to change.

Prerequisite: Courses in biostatistics/data science/machine learning and in R programming (e.g. "Biostatistics & Epidemiological Data Analysis using R" class)

Final grade: 30% participation in class, 30% paper presentation, 40% project