

## Design and analysis of longitudinal cluster randomised trials

February 6 & 7 2023

### Day 1: Design

Time	Topic
10:00-10:15	Introduction
10:15-10:45	What are CRTs and ICCs?
10:45-11:15	Longitudinal CRTs and correlation structures
11:15-11:30	COFFEE BREAK
11:30-12:00	How to choose an ICC?
12:00-12:30	Sample size calculations
12:30-1:00	LUNCH
1:00-1:45	Practical session on sample size calculations
1:45-2:00	Wrap-up of practical session
2:00-2:30	Choosing between different types of standard designs
2:30-2:45	COFFEE BREAK
2:45-3:00	Information content and incomplete SWs
3:00-3:30	Staircase designs
3:30-3:50	Practical: choosing an incomplete design and sample size calculations for incomplete designs
3:50-4:00	Wrap-up

### Day 2: Analysis

Time	Topic
10:00-10:45	Analysis of longitudinal CRTs – key concepts
10:45-11:15	Practical session
11:15-11:30	COFFEE BREAK
11:30-12:00	The impact of misspecification <ul style="list-style-type: none"> <li>- Correlation structures</li> <li>- Treatment effect heterogeneity</li> <li>- Functional form of the treatment effect</li> </ul>
12:30-1:00	LUNCH
1:00-1:45	Practical session using simulated data (and maybe a real example too!)
1:45-2:00	Wrap-up of practical session
2:00-2:30	Risks of bias in these designs
2:30-2:45	COFFEE BREAK
2:45-3:45	Reporting requirements
3:45-4:00	Wrap-up

*\*Please note that this schedule is current as at December 2022 and is subject to change. Updates will be communicated to any registered attendees.*

