

# Short Course on Response-Adaptive Methods for Clinical Trials – Programme

MRC Biostatistics Unit, University of Cambridge

**Lecturers:** Sofia Villar, David Robertson, Lukas Pin, Rajenki Das

**Wednesday, Oct 23rd 2024**

9:30 – 9:45	Arrival – Registration and coffee
9:45 – 10:00	Introductions: course, lecturers and attendees
10:00 – 11:00	<b>Lecture 1: Introduction to RAR design and analysis (SV)</b>
11:00 – 11:15	<i>Coffee break</i>
11:15 – 11:45	<b>Lecture 1 (cont.): Introduction to RAR design and analysis (SV)</b>
11:45 – 12:30	<i>Practical 1: Implementing and comparing different RAR in practice</i> (SV + LP)
12:30 – 13:30	LUNCH BREAK
13:30 – 14:15	<b>Lecture 2: Considerations for implementing and targeting optimal RAR designs: from targeting an unequal proportion to burn-in (LP)</b>
14:15 – 14:25	<i>Short break</i>
14:25 – 14:55	<b>Lecture 2 (cont.): Considerations for implementing and targeting optimal RAR designs: from targeting an unequal proportion to burn-in (LP)</b>
14:55 – 15:45	<i>Practical 2: Implementing and Targeting Optimal Allocation Proportions</i> (SV + LP)
15:45 – 16:45	<b>Lecture 3: Further methodological considerations for RAR: early stopping, missing data and estimation. (DR)</b>

## Thursday, Oct 24th 2024

9:30 – 10:30	<b>Lecture 4: Trial examples using RAR</b> (LP and SV to lead)
10:30 – 11.15	<b>Lecture 5: Implementing Bayesian RAR in a rare disease setting</b> (RD)
11.15 – 11.30	<i>Coffee break</i>
11.30 – 12.15	<b>Lecture 6: Other applications of RAR: Backfill in dose finding and RAR for power</b> (LP)
12.15 – 13.00	<b>Lecture 7: A deep dive into the ARREST trial and final considerations</b> (SV)