



Current developments in cluster randomised trials and stepped wedge designs

21st & 22nd November 2018

<https://www.qmul.ac.uk/pctu/courses-and-events/current-events/current-developments-in-cluster-randomised-trials-and-stepped-wedge-design/>

Venues:

Registration, coffee breaks, lunches and poster sessions:

Old Library

Garrod Building, Queen Mary University of London, Turner Street, London E1 2AB

Invited & Contributed sessions:

John Ellis Lecture Theatre

Barts Health Education Academy, Alex Wing, Dental Hospital, Royal London Hospital. Turner Street, London E1 2AB

Map: <http://www.qmul.ac.uk/docs/about/27062.pdf>

Wifi code:

Wifi code: QMevent network

Password: TroL9513 or MntW2840

DAY 1: Wednesday 21st November 2018- 10:00-17:00

10:00 – 10:30: Registration and Coffee

10:30 – 10:40: Introduction (Prof Sandra Eldridge, Queen Mary University of London, UK)

10:40 – 11:40: Session 1 (Chair: Dr Beth Stuart, University of Southampton, UK)

10:40 – 11:00: *Cluster randomised trials with continuous recruitment: optimal design of a parallel groups trial with a prospective baseline period*

Richard Hooper, Queen Mary University of London, UK

11:00 – 11:20: *Power calculation for Cluster Randomised Trials (CRT) with truncated outcomes: A motivating example using truncated Poisson distributed outcomes from a planned malaria vector control CRT study*

**Lazaro Mwandigha, Imperial College London,
MRC Centre for Outbreak Analysis and Modelling, UK**

11:20 – 11:40: *An algorithm to optimise the sampling strategy within the clusters of a stepped-wedge design*

Alan Girling, Institute of Applied Health Research, University of Birmingham, UK

11:40 – 12:10: Coffee and Posters

12:10 – 12:50: Session 2 (Chair: Prof Bruno Giraudeau, Tours University, France)

12:10 – 12:30 *A note about the association between Crespi's R and prevalence*

Murielle Mbekwe Yepnang, INSERM, SPHERE U1246, Tours, France

12:30 – 12:50 *Performance of weighting as an alternative to multilevel multiple imputation in cluster randomized trials with missing binary outcomes*

Elizabeth Turner, Department of Biostatistics and Bioinformatics, Duke University, Durham, NC

12:50 – 14:00: Lunch and Posters

14:00 – 15:30: Workshop on Ethics in CRTs – part 1

**Charles Weijer, Western University, Canada
Monica Taljaard, University of Ottawa, Canada
Cory Goldstein, Western University, Canada**

15:30 – 16:00: Coffee and Posters

16:00 – 17:00 Workshop on Ethics in CRTs – part 2

**Charles Weijer, Western University, Canada
Monica Taljaard, University of Ottawa, Canada
Cory Goldstein, Western University, Canada**

18:30 Onwards: Conference dinner (for those who registered)

The Culpepper, 40 Commercial Street, London, E1 6LP

DAY 2: Thursday 22nd November 2018- 8:30-16:00

8:30 – 9:00: Coffee

9:00-10:00: Session 3 (Chair: Dr Richard Hooper, Queen Mary University of London, UK)

9:00 – 9:20 *Analysis of the stepped wedge cluster randomized trial with small number of clusters: An empirical assessment of available methods for a binary outcome*

Stephanie Dixon, Institute for Clinical Evaluative Sciences (ICES), Toronto, ON Canada

9:20 – 9:40 *Comparison of small sample variance corrections for generalised estimating equations in stepped wedge trials*

Jennifer Thompson, London School of Hygiene and Tropical Medicine, UK

9:40 – 10:00 *When a design with more subjects per cluster is more efficient than more clusters with fewer subjects per cluster: An example with a multiple-period cluster randomised crossover trial*

**Andrew Forbes, School of Public Health and Preventive Medicine,
Monash University, Melbourne, Australia**

10:00 – 10:30: Coffee and Posters

10:30 – 11:30: Session 4 (Chair: Prof Sandra Eldridge, Queen Mary University of London, UK)

Cluster reallocation - A new method for assessing the presence of spatial spillover in cluster randomised trials

Christopher Jarvis, London School of Hygiene and Tropical Medicine, UK

11:30 – 12:00: Poster pitch session (Old library) (Chair: Claire Chan, Queen Mary University of London, UK)

Understanding the feasibility of conducting an SW-CRT to assess the impact of a central clinical laboratory service on antimicrobial resistance in Cabo Verde

Caroline Kristunas, Department of Health Sciences, University of Leicester, UK

Exploring the Hawthorne effect using a balanced incomplete block design in the ASPIRE cluster randomised controlled trials

**Michelle Collinson, Clinical Trials Research Unit, Leeds Institute of Clinical Trials Research, University of Leeds,
UK**

Sometimes things do go according to plan. Analysis of the UK stepped wedge cluster randomised trial of concealed vs revealed Placental Growth Factor testing for the early diagnosis of preeclampsia.

Paul Seed, King's College London & King's Health Partners, UK

An introduction to the split-plot randomised controlled trial

Beatriz Goulao, Health Services Research Unit, University of Aberdeen, UK

Impact of a peer review network on the quality of inpatient low secure mental health services: single-blind, cluster randomized control trial

Sarah Jasim, Centre for Psychiatry, Imperial College London, W12 0HS, UK

Issues with a stepped wedge cluster trial of the Money Advice Service Financial Inclusion Project

Mike Campbell, SchARR, The University of Sheffield, UK

12:00 – 13:00: Lunch

13:00 – 14:00: Group-based activity

Assessing the reporting of binary effect measures in CRTs: a rapid methods based review

Elizabeth Turner, Department of Biostatistics and Bioinformatics, Duke University, Durham, NC

Karla Hemming, Institute of Applied Health Research, University of Birmingham, UK

14:00 – 14:20: Coffee

14:20 – 15:20: Session 5 (Chair: Prof Karla Hemming, University of Birmingham, UK)

14:20 – 14:40 *Optimal allocation of clusters in staircase cluster randomised trial designs*

Jessica Kasza, Monash University, Melbourne, Australia

14:40 – 15:00 *How many times should a cluster randomised crossover trial cross over?*

Kelsey Grantham, School of Public Health and Preventive Medicine,

Monash University, Melbourne, Australia

15:00 – 15:20 *Nothing is as expected! Statistical lessons from CRADLE 3 - a multinational stepped wedge RCT in a low resource setting*

Paul Seed, King's College London & King's Health Partners, UK

15:20 – 15:50: Updates from previous meetings (Chair: Dr Clémence Leyrat, London School of Hygiene and Tropical Medicine, UK)

15:20 – 15:40 *Reporting back on the results from a crowdsourcing review conducted at the Current Developments in Cluster Randomised Trials and Stepped Wedge Designs 2017*

Karla Hemming, Institute of Applied Health Research, University of Birmingham, UK

15:40 – 15:50 Presentation of the website clusterrandomisedtrials.qmul.ac.uk

Claire Chan, Queen Mary University of London, UK

15:50 – 16:00: Conclusions (Prof Sandra Eldridge, Queen Mary University of London, UK)