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**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/**](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**](http://www.qmul.ac.uk/docs/about/27062.pdf)

**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**)