

## Current developments in cluster randomised trials and stepped wedge designs

12th & 13th November 2019

<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:

**Milton Lecture Theatre**

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

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

## DAY 1: Wednesday 12th November 2019

09:45 – 10:10: Registration and Coffee

10:10 – 10:15: Introduction (Prof Sandra Eldridge, Queen Mary University of London, UK)

10:15 – 11:15: Session 1 (Chair: TBC)

- 10:15 *Assessing the reporting of binary effect measures in CRTs: results from a crowd-sourced methods based review.*  
**Liz Turner**, Department of Biostatistics and Bioinformatics, Duke University, Durham, NC, USA
- 10:35 *Contamination in individually randomised trials: when is a cluster trial more efficient.*  
**Andrew Forbes**, Monash University, Melbourne, Australia
- 10:55 *Efficient cluster randomised trial design when the ICC differs between arms.*  
**Andrew Copas**, MRC Clinical Trials Unit at UCL, UK

11:15– 11:45: Coffee

11:45 – 12:25: Session 2 (Chair: TBC)

- 11:45 *Sample size and power calculations for open cohort stepped wedge designs.*  
**Jessica Kasza**, Monash University, Melbourne, Australia
- 12:05 *Outcome adaptive intervention roll out in stepped-wedge cluster randomised trials.*  
**Michael Grayling**, Institute of Health & Society, Newcastle University, UK

12:25 – 13:00: Poster pitch session (Chair: Claire Chan, Queen Mary University of London)

- *Baseline testing in cluster randomised controlled trials: should this be done?*  
**Alex Mitchell**, York Trials Unit, Department of Health Sciences, University of York, UK
- *Robust, value-based sample size determination for cluster randomised trials when nuisance parameters are unknown*  
**Duncan Wilson**, University of Leeds, UK
- *Intervention before consent: methods to minimise bias due to differential recruitment and retention in cluster randomised controlled trials*  
**Sarah Rhodes**, NIHR Collaboration for Leadership in Applied Health Research and Care (CLAHRC) Greater Manchester, Salford Royal Foundation NHS Trust, Salford, UK
- *Assessing the risk of bias in cluster randomised controlled trials: results from a review*  
**Christina Easter**, Institute of Applied Health Research, University of Birmingham, Birmingham, UK
- *Covariate constrained randomisation for stepped-wedge cluster randomised trial*  
**Caroline Kristunas**, Department of Health Sciences, University of Leicester, UK

13:00 – 14:00: Lunch

14:00 – 16:00: Session 3 (Chair: TBC)

*Health economics for cluster randomised trials*

**Josselin Thuilliez**, Centre d'Économie de la Sorbonne, France

16:00 – 16:30: Coffee

16:30 – 17:10: Session 4 (Chair:TBC)

- 16:30 *Introducing a Stata program to perform cluster level analysis of clinical trials: clan*  
**Stephen Nash**, Tropical Epidemiology Group, London School of Hygiene and Tropical Medicine, UK
- 16:50 *The PITHIA trial: a stepped wedge, cluster randomised, registry based national trial with economic evaluation.*

**Laura Pankhurst**, Clinical Trials Unit NHS Blood and Transplant, Cambridge and Bristol, UK

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

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

## DAY 2: Thursday 13<sup>th</sup> November 2019

9:30 – 09:45: Registration and Coffee

09:45 – 11:15: Workshop on cluster crossover trials – part 1

**Andrew Forbes, Monash University, Australia**  
**Karla Hemming, University of Birmingham, United Kingdom**  
**Monica Taljaard, University of Ottawa, Canada**  
**Joanne McKenzie, Monash University, Australia**

11:15 – 11:45: Coffee

11:45 – 12:40 Workshop on cluster crossover trials – part 2

12:40 – 13:00: Poster pitch session (Chair: Claire Chan, Queen Mary University of London)

- *Methodological review of evidence of risk of bias in cluster randomised trials*  
**Jenny Roche**, York Trials Unit, Department of Health Sciences, University of York, UK
- *Design issues when assessing a topical pharmacological treatment in dermatology*  
**Sophie Leducq**, University of Tours and Nantes, INSERM, SPHERE U1246 – SPHERE, Tours, France
- *Enhanced Recovery after Intensive Care (ERIC): Study protocol for a stepped-wedge cluster randomized controlled trial to evaluate the effectiveness of an e-health intervention at ICU to optimize adherence to quality indicators and personal recovery in critically ill adults*  
**Christine Adrion**, Institute for Medical Information Processing, Biometry and Epidemiology (IBE), Ludwig-Maximilians-Universität (LMU), Munich, Germany
- *Methods and principles in developing, validating and implementing models using data from cluster randomised trials*  
**Menelaos Pavlou**, Department of Statistical Science, University College London, UK

13:00– 14:00: Lunch

14:00 – 15:00: Session 5 (Chair: TBC)

- 14:00 *The cluster randomized crossover trial: the effects of attrition in the AB/BA design and how to repair for it*  
**Mirjam Moerbeek**, Utrecht University,  
Department of Methodology and Statistics, The Netherlands
- 14:20 *Designing a stepped-wedge cluster randomised trial with treatment effect and time effect heterogeneity across strata*  
**James Martin**, Institute of Applied Health Research, University of Birmingham, UK
- 14:40 *Stepped Wedge Test-Negative Trials*  
**Nicholas Jewell**, Department of Medical Statistics, London School of Hygiene and Tropical Medicine, UK

15:00 – 15:30: Coffee

15:30 – 16:30: Session 6 (Chair: TBC)

- 15:30 *Improving the efficiency of a stepped-wedge design without lengthening the study*  
**Alan Girling**, Institute of Applied Health Research, University of Birmingham, UK
- 15:50 *Improving the feasibility of stepped-wedge cluster randomised trials: findings of a qualitative interview study*  
**Caroline Kristunas**, Department of Health Sciences, University of Leicester, UK
- 16:10 *Estimation of individual-level local average treatment effects in cluster randomised trials with non-adherence*  
**Schadrac Agbla**, Department of Medical Statistics, London School of Hygiene and Tropical Medicine, UK

16:30 – 16:40: Conclusions (Prof Sandra Eldridge, Queen Mary University of London, UK)