**Current Developments in Cluster Randomi** **sed Trials**

**and Stepped Wedge Designs**

**14-15 November 2022**

**Whitechapel Gallery / Online (Zoom)**

Programme

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| **Current Developments in Cluster Randomised Trials and Stepped Wedge Designs** | |
| **Time (GMT)** | **Day 1 – 14 November 2022** |
| 10:00-10.15 | Welcome to the 8th Annual Conference  **Prof Richard Hooper/Prof Beth Stuart, co-Directors of PCTU, Queen Mary University of London** |
| **10.15-11.00** | **Regular Presentations (in-person) - Methods**  Chair: Liz Turner |
| 10.15-10.30  10.30-10.45  10.45-11.00 | **Estimands in cluster-randomized trials: choosing analyses that answer the right question**  **Prof Andrew Copas** University College London (UK)  **Multiple-treatment factorial cluster randomised crossover trials using incomplete-block row-column designs**  **Prof Andrew Forbes** Monash University (Australia)  **Handling missing baseline covariate data in cluster-randomised trials**  **Dr Baptiste Leurent** London School of Hygiene and Tropical Medicine (UK) |
| **11.00-11.25** | Break |
| **11.25-11.45** | **Rapid Fire Talks (online) - Methods**  Chair: John Bradley |
| 11.25-11.35 | **Leveraging baseline covariates to analyze small cluster- randomized trials with a rare binary outcome**  **Yaqian (Angela) Zhu** University of Pennsylvania (USA) |
| 11.35-11.45 | **Methodological challenges in a large cluster RCT: lessons learned from the GBS-3 trial**  **Lucy Bradshaw** University of Nottingham (UK) |
| **11.45-12.30** | **Regular Presentations (in-person) - Corr/Var/ICC**  Chair: John Bradley |
| 11.45-12.00 | **Does it decay? Obtaining decaying correlation parameter values from previously analysed cluster randomised trials**  **Dr Jessica Kasza** Monash University (Australia) |
| 12.00-12.15 | **Get help with the ICC: A shiny app for Cluster Randomized Trials**  **Olivier Quintin** Queen Mary University of London (UK) |
| 12.15-12.30 | **Estimation of models with complex covariance structures in cluster trial analyses**  **Dr Sam Watson** University of Birmingham (UK) |
| 12.30-1.35 | Lunch Break |
| **1.35-1.45** | **Rapid Fire Talks (online) - Corr/Var/ICC**  Chair: Andrew Copas |
| 1.35-1.45 | **Improving sandwich variance estimation for marginal Cox analysis of cluster randomized trials**  **Xueqi Wang** Yale University (USA) |
| **1.45-2.30** | **Regular Presentations (in-person) - Stepped Wedge**  Chair: Andrew Copas |
| 1.45-2.00 | **The impact of iterative removal of low-information cluster-period cells from a stepped wedge design**  **Ehsan Rezaei-Darzi** Monash University (Australia) |
| 2.00-2.15 | **Relative efficiency of staircase and stepped wedge cluster randomised trial designs  Dr Kelsey Grantham** Monash University (Australia) |
| 2.15-2.30 | **Small sample corrections for linear mixed model analysis of stepped-wedge cluster randomised trials: a simulation evaluation Dr Caroline Kristunas** University of Birmingham (UK) |
| 2.30-2.50 | Break |
| **2.50-3.10** | **Rapid Fire Talks (in-person) - Stepped Wedge**  Chair: Richard Hooper |
| 2.50-3.00 | **Optimal allocation to treatment sequences in individually randomized stepped wedge designs with attrition**  **Dr Mirjam Moerbeek** Utrecht University (Netherlands) |
| 3.00-3.10 | **Optimal allocation of clusters to sequences in stepped wedge trials with binary outcome data Laura Etfer** Newcastle University (UK) |
| **3.10-3.55** | **Invited speaker (online)**  Chair: Richard Hooper |
| 3.10-3.55 | **Prof Mary Dixon-Woods** THIS Institute (The Healthcare Improvement Studies Institute) (UK)  **The role of process evaluations** |
| **3.55-4.10** | **Announcements** |
| **4:10-4:30** | **Networking and Close** |
| **Current Developments in Cluster Randomised Trials and Stepped Wedge Designs** | |
| **Time (GMT)** | **Day 2 – 15 November 2022** |
| 10:15-10.30 | Welcome  **Prof Richard Hooper/Prof Beth Stuart, co-Directors of PCTU, Queen Mary University of London** |
| **10.30-11.00** | **Regular Presentations (in-person) - Sample size/power**  Chair: Beth Stuart |
| 10.30-10.45  10.45-11.00 | **A Hybrid approach to sample size re-estimation in cluster randomized trials with continuous outcome when there is uncertainty in the intra-cluster correlation**  **Samuel Kwakye Sarkodie** Newcastle University (UK)  **Sample size calculations for cluster randomised trials using assurance**  **Dr Faye Williamson** Newcastle University (UK) |
| **11.00-11.25** | Break |
| **11.25-11.45** | **Rapid Fire Talks (online) - Sample size/power**  Chair: Andrew Forbes |
| 11.25-11.35 | **Power calculation for cross-sectional stepped wedge cluster randomized trials with a time-to-event endpoint**  **Dr Mary M. Ryan** Yale University (USA) |
| 11.35-11.45 | **Power Analysis for Stepped Wedge Cluster Randomized Trials with Continuous Co-Primary Endpoints  Dr Kendra Plourde** Yale University (USA) |
| **11.45-12.30** | **Regular Presentations (in-person) - Stepped wedge methods**  Chair: Andrew Forbes |
| 11.45-12.00 | **Quasi-Experiments - Cluster Randomised Trials and Stepped Wedge Designs: Connecting Disciplines to Improve Validity and Interpretation**  **Dr Lee Kennedy-Shaffer** Vassar College (USA) |
| 12.00-12.15 | **Assessing exposure-time treatment effect heterogeneity in stepped wedge cluster randomized trials**  **Lara Maleyeff** Harvard University (USA) |
| 12.15-12.30 | **Estimation of a risk difference in a cluster randomized trials**  **Jules Pereira Macedo** University of Tours (France) |
| 12.30-1.30 | Lunch Break |
| **1.30-1.50** | **Rapid Fire Talks (online/in-person) - Methods**  Chair: Karla Hemming |
| 1.30-1.40  1.40-1.50 | **Methods to account for noncompliance in a cluster randomised trial with time-to-event data**  **Lucy Abell** University of Leicester (UK) - in-person  **Regression diagnostics for the identification of influential data in the analysis of cluster randomized trials based on marginal models**  **Dr Ying Zhang** University of North Carolina at Chapel Hill (USA) - online |
| **1.50-2.20** | **Regular Presentations (in-person) - Corr/Var/ICC/Methods**  Chair: Karla Hemming |
| 1.50-2.05 | **Bayesian design and analysis of two-arm cluster randomised trials using assurance  Dr Kevin Wilson** Newcastle University (UK) |
| 2.05-2.20 | **Estimating intra cluster correlation coefficients for binary outcomes from longitudinal cluster randomised trials  Dr Rhys Bowden** Monash University (Australia) |
| **2.20-2.40** | **Rapid Fire Talks (online) - Corr/Var/ICC/Methods**  Chair: Karla Hemming |
| 2.20-2.30 | **Partially clustered trial designs: when clusters meet independent observations**  **Kylie M Lange** University of Adelaide (Australia) |
| 2.30-2.40 | **Assessing treatment effect heterogeneity in the presence of missing effect modifier data in cluster-randomized trials  Dr Bryan Blette** University of Pennsylvania (USA) |
| 2.40-3.00 | Break |
| **3.00-3.45** | **Invited speaker (in-person)**  Chair: Richard Hooper |
| 3.00-3.45 | **Prof Peter Smith** London School of Hygiene & Tropical Medicine (UK)  **The Gambia Hepatitis Intervention Study** |
| **3.45-4.00** | **Closing Remarks** |
| **4:00-4:30** | **Networking** |

All times shown are in Greenwich Mean Time (GMT) zone. For obtaining the timing in your region please go to <https://greenwichmeantime.com/time-gadgets/time-zone-converter/>