

Australian Trials Methodology Conference 2023

Tuesday 17 October

9:30-10:00am	Registration	
10:00-11:00am	Opening Plenary Chair: Katherine Lee Moderator: Rebecca Harding	
10:00-10:15am	Rory Wolfe , Professor of Biostatistics, Monash University and Primary Chief Investigator, Australian Trials Methodology (AusTriM) Research Network Welcome and Acknowledgement of Country	
10:15-11:00am	James Wason , Professor of Biostatistics, Newcastle University (UK) Making more rare disease trials feasible with innovative statistical methods	
11:00-11:30am	Tea break	
11:30am-12:30pm	Cluster randomised trials Chair: Andrew Forbes Moderator: Rhys Bowden	
11:30-11:50am	Fan Li , Assistant Professor of Biostatistics, Yale School of Public Health (US) Model-robust and efficient covariate adjustment for cluster-randomized experiments	
11:50am-12:10pm	Laura Balzer , Associate Professor of Biostatistics, University of California, Berkeley (US) Minimizing bias and maximizing efficiency in cluster randomized trials	
12:10-12:30pm	Lisa Yelland , Biostatistician Senior Research Fellow, South Australian Health and Medical Research Institute Design and Analysis of Perinatal Trials with Partial Clustering	
12:30-1:30pm	Lunch break	
1:30-3pm	Cluster randomised trials Chair: Elizabeth (Liz) Ryan Moderator: Andrew Forbes	Applied innovation Chair: Rebecca Harding Moderator: Rory Wolfe
1:30-1:45pm	Kylie Lange A unified framework for describing partially clustered trial designs 🙏🙏	Eleonora Kay (substitution for Duncan Colyer) A comprehensive approach to address educational and awareness gaps of Registry-based Clinical Trials 🙏
1:45-2:00pm	Rhys Bowden Design of longitudinal cluster randomised trials when correlations vary between groups of clusters 🙏🙏🙏	Yue Wu Using causal DAGs to select patient-important outcomes in transplantation trials 🙏🙏
2:00-2:15pm	Jessica Kasza The batched stepped wedge design: a design robust to delays in cluster recruitment 🙏🙏🙏	Sarah Heynemann Implications for traditional research ethics notions of informed consent and equipoise of trends in the modern cancer clinical trials landscape 🙏
2:15-2:30pm	Kelsey Grantham Optimal staircase cluster randomised trial designs and when to use them 🙏🙏🙏	Xiaoxi Yan Embedding an online-learning micro-randomized trial in a cluster-randomized controlled mHealth study: A study to develop mindfulness and emotional regulation in expectant couples 🙏
2:30-2:45pm	Ehsan Rezaeidarzi Identifying cost-efficient incomplete stepped wedge designs 🙏🙏🙏	Chris Brown Randomised trials within a multi-site clinical trial registry 🙏
2:45-3:00pm	Sarah (Faye) Williamson Hybrid sample size calculations for cluster randomised trials using assurance 🙏🙏	Julie Simpson Evaluation of a pharmacokinetic-pharmacodynamic model for predicting parasitological outcomes in Phase 2 studies of new antimalarial drugs 🙏🙏
3:00-3:30pm	Tea break	
3:30-4:30pm	Innovative trial designs Chair: Stephane Heritier Moderator: Elizabeth (Liz) Ryan	
3:30-3:50pm	Haiyan Zheng , Senior Lecturer in Statistics, University of Bath (UK) Multiplicity adjustment in basket trials permitting pairwise borrowing of information	
3:50-4:10pm	Marta Bofill Roig , Postdoctoral Researcher, Medical University of Vienna (AT) Analysis approaches for platform trials utilising non-concurrent controls	
4:10-4:30pm	David Robertson , Senior Research Associate, University of Cambridge (UK) Point estimation after adaptive designs	
4:30-4:40pm	Short break	
4:40-6:00pm	Trial analysis Chair: Rory Wolfe Moderator: Anurika De Silva	
4:40-5:10pm	Jonathan Bartlett , Professor in Medical Statistics, London School of Hygiene & Tropical Medicine (UK) Hypothetical Estimands in Clinical Trials: A Unification of Causal Inference and Missing Data Methods	
5:10-5:25pm	Eleanor (Ellie) Van Vogt , NHIR Doctoral Fellow, Imperial College London (UK) Detection of treatment effect heterogeneity in trials using causal machine learning methods	
5:25-5:55pm	Thomas Jaki , Professor of Statistics, University of Regensburg (DE) and University of Cambridge (UK) Heterogeneity in treatment effects: random or real	
5:55 - 6:00pm	Rory Wolfe , Professor of Biostatistics, Monash University and Primary Chief Investigator, Australian Trials Methodology (AusTriM) Research Network End of day wrap up	
6:00 - 7:00pm	Networking reception	

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9:30-10:00am	Registration	
10:00-11:15am	Causal inference Chair: Julie Marsh Moderator: Tom Snelling	
10:00-10:30am	Miguel Hernan , Kolokotronis Professor of Biostatistics and Epidemiology, Harvard University (US) Causal estimands: Should we ask different causal questions in randomized trials and in the observational studies that emulate them?	
10:30-11:00am	Fan Li , Professor of Statistical Science and of Biostatistics & Bioinformatics, Duke University (US) Principal Stratification for addressing intercurrent events in clinical trials: some recent advancement of methods and software	
11:00-11:15am	Panel Discussion	
11:15-11:45am	Tea break	
11:45am-1:00pm	Survival analysis Chair: Serigne Lo Moderator: Thao Le	
11:45am-12:10pm	Annabel Webb , PhD Candidate, Macquarie University and Biostatistician, Cerebral Palsy Alliance Research Institute A maximum penalised likelihood approach for Cox models with time-varying covariates and partly-interval censored survival data	
12:10-12:35pm	Giorgos Bakoyannis , Assistant Professor of Statistics, Athens University of Economics and Business (GR) Estimating optimal individualized treatment rules with multistate processes	
12:35-1:00pm	Ronald Geskus , Associate Professor of Biostatistics, Oxford University Clinical Research Unit (VN) Competing risks, when and how to incorporate them in the analysis	
1:00-2:00pm	Lunch break	
2:00-3:30pm	Bayesian trial design Chair: Rhys Bowden Moderator: Serigne Lo	Innovative analysis methodology Chair: Elaine Pascoe Moderator: Kylie Lange
2:00-2:15pm	Urska Arnautovska Testing the effects of semaglutide and metformin for treatment of antipsychotic-induced obesity: Implementation of an adaptive platform trial for schizophrenia 🍵	Ian Marschner Confidence distributions for treatment effects in clinical trials: posteriors without priors 🍵🍵🍵
2:15-2:30pm	Charlie McLeod The Platform Trial In COVID-19 Priming and BOOSTing: the Immunogenicity, Reactogenicity, and Safety of Three Different COVID-19 Vaccinations against SARS-CoV-2 🍵	Alan Herschtal An Interpretable Regression Framework for Bimodal Count Data 🍵🍵🍵
2:30-2:45pm	Michael Dymock Modelling immune responses to COVID-19 vaccination with a Bayesian three-level hierarchical model 🍵🍵🍵	Sabine Braat Re-design of intravenous iron program for anaemia in pregnancy in low- and middle-income countries 🍵🍵
2:45-3:00pm	Elizabeth Ryan A fast, flexible simulation framework for Bayesian adaptive designs: an update on the BATS package 🍵🍵🍵	Dominic Italiano Evaluation of Decision Rules for Achieving Overall Balance when Incorporating Group Size in Covariate-Adaptive Randomisation 🍵🍵🍵
3:00-3:15pm	Robert Mahar Embracing uncertainty: approximate Bayesian platform trial design 🍵🍵	Thomas Sullivan Adjusting for continuous variables that have been categorised for stratified randomisation 🍵🍵🍵
3:15-3:30pm	Julie Marsh Platform Trials 2.0 🍵🍵	Anurika de Silva Methods for handling missing data in trials affected by COVID-19 🍵🍵
3:30-4:00pm	Tea break	
4:00-5:00pm	Health economics of trials Chair: Robert Mahar Moderator: Anurika De Silva	
4:00-4:30pm	Rachael Morton , Professor of Health Economics and Health Technology Assessment, University of Sydney Value of Information analysis to guide investment in randomised trials – an example from perinatal medicine	
4:30-4:55pm	Laura Flight , Scientific Adviser – Science Policy and Research Programme, National Institute for Health and Care Excellence (UK) The use of health economics in adaptive clinical trials	
4:55-5:00pm	Rory Wolfe , Professor of Biostatistics, Monash University and Primary Chief Investigator, Australian Trials Methodology (AusTriM) Research Network Closing remarks	

“Statistical spiciness” ratings (denoted by one to three chilis 🍵) are an indication of how statistically complex the presentation is.

Please use this as a guide and see the abstracts within the Chime Live platform for further detail.

We respectfully acknowledge the Traditional Owners of the land on which this event is being held.

Melbourne has always been a significant gathering place for the groups of the Kulin Nation, and we acknowledge and respect their continuing connection with the land