Biostatistics Group: Selected Methodological Publications

The Journal of Rheumatology

Owen CE, Yates M, Twohig H, Muller S, Neill LM, Harrison E, Shea B, Simon LS, Hill CL, Mackie SL. 2019. Toward a core outcome measurement set for polymyalgia rheumatica: report from the OMERACT 2018 Special Interest Group. *Journal of Rheumatology* 2019; 46: 1360–1364

BMC Part of Springer Nature — Pilot and Feasibility Studies

Lancaster GA, Thabane L. Guidelines for reporting non-randomised pilot and feasibility studies. *Pilot and Feasibility Studies* 2019; 5: 114.

Sim J. Should treatment effects be estimated in pilot and feasibility studies? *Pilot and Feasibility Studies* 2019; 5: 107

Campbell MJ, Lancaster GA, Eldridge SM. A randomised controlled trial is not a pilot trial simply because it uses a surrogate endpoint. *Pilot and Feasibility Studies* 2018; 4: 130

BMC Part of Springer Nature — BMC Medical Research Methodology

McCray GPJ, Titman AC, Ghaneh P, Lancaster GA. 2017. Sample size re-estimation in paired comparative diagnostic accuracy studies with a binary response. *BMC Medical Research Methodology* 2017; 17: 102

Chernova J, Solis-Trapala I. A simplified approach to estimating the distribution of occasionally-consumed dietary components, applied to alcohol intake. *BMC Medical Research Methodology* 2016; 16: 78

Egbewale BE, Lewis M, Sim J. Bias, precision and statistical power of analysis of covariance in the analysis of randomized trials with baseline imbalance: a simulation study. *BMC Medical Research Methodology* 2014; 14: 49

BMC Part of Springer Nature — Diagnostic and Prognostic Research

Whittle R, Royle K-L, Jordan KP, Riley RD, Mallen CD, Peat G. Prognosis research ideally should measure time-varying predictors at their intended moment of use. *Diagnostic and Prognostic Research* 2017; 1: 1

BMJ Journals — BMJ Global Health

Lancaster GA, McCray G, Kariger P, Dua T, Titman A, Chandna J, McCoy D, Abubakar A, Hamadani JD, Fink G, Tofail F, Gladstone M, Janus M. Creation of the WHO Indicators of Infant and Young Child Development (IYCD): metadata synthesis across 10 countries. *BMJ Global Health*, 2018; 3: e000747

Statistics in Medicine

Riley RD, Snell KIE, Ensor J, Burke DL, Harrell FE, Moons KGM, Collins GS. Minimum sample size for developing a multivariable prediction model: Part I – Continuous outcomes. *Statistics in Medicine* 2019; 38: 1262–1275

Riley RD, Snell KI, Ensor J, Burke DL, Harrell FE, Moons KG, Collins GS. Minimum sample size for developing a multivariable prediction model: PART II – binary and time-to-event outcomes. *Statistics in Medicine* 2019; 38: 1276–1296.

Research Synthesis Methods

Burke DL, Ensor J, Snell KIE, van der Windt D, Riley RD. Guidance for deriving and presenting percentage study weights in meta-analysis of test accuracy studies. *Research Synthesis Methods*, 2018; 9: 163–178

JCE — Journal of Clinical Epidemiology

Yu D, Peat G, Bedson J, Edwards JJ, Turkiewicz A, Jordan KP. Weighted cumulative exposure models helped identify an association between early knee pain consultations and future knee OA diagnosis, *Journal of Clinical Epidemiology*, 2016; 76: 218–228.

Joseph R, Sim J, Ogollah R, Lewis M. A systematic review finds variable use of the intention-to-treat principle in musculoskeletal randomized controlled trials with missing data. *Journal of Clinical Epidemiology* 2015; 68: 15–24.

Strauss VY, Jones PW, Kadam UT, Jordan KP. Distinct trajectories of multimorbidity in primary care were identified using latent class growth analysis. *Journal of Clinical Epidemiology* 2014; 67: 1163–1171.

Quality of Life Research

Keeley T, Al-Janabi H, Nicholls E, Foster NE, Jowett S, Coast J. A longitudinal assessment of the responsiveness of the ICECAP-A in a randomised controlled trial of a knee pain intervention. *Quality of Life Research*, 2015; 24: 2319–2331.

Sim J, Machin L, Bartlam B. Identifying vulnerability in grief: psychometric properties of the Adult Attitude to Grief Scale. *Quality of Life Research* 2014; 23: 1211–1220.

Physical Therapy

Ogollah R, Bishop A, Lewis M, Grotle M, Foster NE. Responsiveness and minimal important change for pain and disability outcome measures in pregnancy-related low back and pelvic girdle pain. *Physical Therapy*, 2019; 99: 1551–1561.

Statistical Methods in Medical Research

Titman AC, Lancaster GA, Colver AF. Item response theory and structural equation modelling for ordinal data: describing the relationship between KIDSCREEN and Life-H. *Statistical Methods in Medical Research* 2016; 25: 1892–1924.

Applied Health Economics and Health Policy

Hall JA, Konstantinou K, Lewis M, Oppong R, Ogollah R, Jowett S. Systematic review of decision analytic modelling in economic evaluations of low back pain and sciatica. *Applied Health Economics and Health Policy* 2019; 17: 467–491

Theoretical Medicine and Bioethics — Philosophy of Medical Research and Practice

Sim J. Outcome-adaptive randomization in clinical trials: issues of participant welfare and autonomy. *Theoretical Medicine and Bioethics* 2019; 40: 83–101

BMJ

Riley RD, Moons KGM, Snell KIE, Ensor J, Hooft L, Altman DG, Hayden J, Collins GS, Debray TPA. A guide to systematic review and meta-analysis of prognostic factor studies. *BMJ* 2019; 364: k4597

Biostatistics Group
School of Primary, Community and Social Care
Keele University