

1. Personal Information

First Name	Julie
Last Name	Bruce
Affiliation	University of Warwick
Country	U.K
Department	Warwick Clinical Trials Unit, Warwick Medical School
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2. Curriculum Vitae

◆ Educational Background & Experience

Year	Affiliation	Position
1/1/19 - present	Warwick Clinical Trials Unit, University of Warwick, UK	Professor of Clinical Trials
6/2017 - 12/2018	Warwick Clinical Trials Unit, University of Warwick, UK	Professorial Fellow
2010-2017	Warwick Clinical Trials Unit, University of Warwick, UK	Principal Research Fellow
2008-2010	Epidemiology Group/Section of Population Health, University of Aberdeen	Senior Research Fellow Tenured Position
2005-2007	Department of Public Health, University of Aberdeen	Personal Fellowship MRC Special Training Fellowship in Health Services & Health of the Public Research

◆ Publications

No.	Contents
1	Bertram W, Howells N, White SP, Sanderson E, Wylde V, Lenguerrand E et al. Prevalence and patterns of neuropathic pain in people with chronic post-surgical pain after total knee arthroplasty. <i>Bone Joint Journal</i> 2024, 106-B(6), pp. 582–588.
2	Mackenzie RM, Abdulmajid A, Bruce D, Bruce J, Ford I, Greenlaw N, et al. Clinical outcomes and adverse events of bariatric surgery in adults with severe obesity in Scotland: the SCOTS observational cohort study. <i>Health Technol Assess</i> , 2024, January Vol 28; Issue 7.
3	Bertram W, Wylde V, Howells N, Shirkey B, Peters TJ, Zhu L et al. The STAR care pathway for patients with chronic pain after total knee replacement: four-year follow-up of a randomised controlled trial. <i>BMC Musculoskelet Disord</i> . 2023 Dec 16;24(1):972. doi: 10.1186/s12891-023-07099-x.
4	Griffin J, Davis ET, Parsons H, Stevens S, Bradley H, Bruce J et al. UK robotic arthroplasty clinical and cost effectiveness randomised controlled trial for hips (RACER-Hip): a study protocol. <i>BMJ Open</i> . 2023 Oct 18;13(10):e079328. doi: 10.1136/bmjopen-2023-079328.

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5	Williamson E, Sanchez-Santos MT, Marian IR, Maredza M, Srikesavan C, Garrett A, et al. Improving the understanding and management of back pain in older adults: the BOOST research programme including RCT and OPAL cohort. Programme Grants Appl Res 2023;11(9).
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3. Abstract

Lecture Title	Pain after breast cancer surgery
<p>Clinical trials are the cornerstone of evidence-based medicine. This talk will introduce the evaluation of complex interventions, discussing the challenges of undertaking rigorous, well-designed clinical trials of non-pharmacological interventions. Julie will describe study design challenges, referring to the Medical Research Council (MRC) framework for the development and evaluation of complex interventions. What makes an intervention complex? How can we improve the design and delivery of large-scale randomised controlled trials when testing complex interventions? The phases of development, feasibility/piloting and evaluation will be presented.</p> <p>This talk will refer to a recent example of a multicentre clinical trial undertaken in the UK National Health Service (NHS) testing ‘complex’ interventions (investigating physical activity/structured exercise with behavioural support) for people at risk of chronic pain after surgery. Women with newly diagnosed breast cancer screened as being at higher risk of developing shoulder dysfunction and chronic postoperative pain were randomised to receive a structured exercise programme, supported by physiotherapists (with manual manipulation for management of axillary cording) compared to usual care (UK PROSPER Trial). A total of 392 women were randomised from 17 NHS cancer units were randomised and followed-up for one year. This talk will introduce methodological principles, including explicit and transparent reporting of the exercise intervention (e.g. SPIRIT, TIDIER and CERT guidelines). It will also present key results from the PROSPER trial, findings for pain, function and quality of life outcomes after 12 months.</p>	