

Adaptive Platform Trials Virtual Clinics – Session 1 (9th March 2023)

Presenter 1: Dr Jessica Schults

Topic: The IVCare adaptive platform trial: Towards zero bloodstream infections in IV catheters.

Unsafe healthcare harms one in 10 patients, costs US\$1-2 trillion per year and is 'one of the leading causes of death and disability worldwide'. With 2 billion catheters used per year worldwide, IV complications cause substantial health and economic burden. This trial will establish an innovative experimental platform, with a core dataset co-designed by clinicians and consumers, facilitating an adaptive RCT that rapidly evaluates numerous interventions to identify clinical and cost-effective strategies that prevent IV therapy-related patient harm.

Presenter 2: Dr Brendan Smyth

Topic: Systematic Evaluation and Investigation of Symptom Management Interventions in Chronic kidney disease (SEISMIC) study

Systematic Evaluation and Investigation of Symptom Management Interventions in Chronic kidney disease (SEISMIC) is a planned platform trial investigating symptom therapies in people with kidney failure. We plan a multiarm-multistage design, with the initial symptom target being pruritus (itch). The screening stage will test putative therapies against placebo in a three arm crossover design (Treatment A x Treatment B x Placebo) with a confirmatory stage testing effective therapies against the most widely used current treatment (gabapentin) in a multiarm parallel group trial. We are interested in using adaptive methods at both stages of this study. Our small exploratory study working group currently comprises researchers from Sydney, Brisbane, Alberta (Canada) and Bristol (UK) with a view to an international multicentre study. We are in early stages of development and are aiming to be able to submit funding applications later this year.

Speaker Bio:

IVCare Study



Dr Jessica Schults is a Senior Research Fellow with the School of Nursing Midwifery and Social Work, University of Queensland and Herston Infectious Diseases Institute, Metro North Health. A paediatric critical care nurse and researcher, her research to date has focused on strategies to reduce ventilator associated pneumonia and interventions to improve IV catheter insertion and care. Jessica has contributed to national guidelines for the management of intravascular catheters and lead international consensus projects to develop an IV catheter minimum dataset. Jessica is chair of the Australia and New Zealand Intensive Care Society (ANZICS) Paediatric Study Group, New and Early Career Researcher Working Group and sits on National committees for the Australian College of Critical Care Nurses.

SEISMIC Study



Dr Smyth is nephrologist at St George Hospital, Sydney, Australia. He completed his PhD in 2020, investigating randomized controlled trial methods and implementation in haemodialysis. His interests are in improving dialysis care, symptom management, and increasing participation in randomized research in nephrology. He has led the development of the ISN Clinical Trials Toolkit and Global Trials Focus and he is an ISN Emerging Leader for 2022-23. He has multiple publications and has contributed textbook chapters, is on the editorial board of the journal *Kidney Blood Pressure Research*, and reviewer for journals including NDT and JASN. He now works as a post-doctoral fellow at the NHRMC Clinical Trials Centre, University of Sydney, where he has leadership roles in a number of innovative trials in dialysis.