# Evidence and Implementation Summit 2023
## 9–11 October
### Melbourne, Australia & Online

MONASH University

NUS | Behavioural and Implementation Science Interventions / Yong Loo Lin School of Medicine

Centre for Evidence and Implementation

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**#224 - Leveraging Implementation Science Principles for System Transformation: The Digital Health Experience**

**Presenting Author(s)***
1. Dr Sundresan Naicker (Moderator)[1]
2. Professor Steven McPhail (Panelist)[1]
3. Professor Gillian Harvey[2] (Panelist)
4. Professor Melissa Baysari[3] (Panelist)

**Affiliation**
1. Australian Centre for Health Services Innovation and Centre for Healthcare Transformation, School of Public Health and Social Work, Faculty of Health, QUT
2. College of Nursing and Health Sciences, Flinders University
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**Country of residence**
Australia

**Background & aims**
Health systems may be described as a type of complex adaptive system, characterized by emergent properties and a multitude of influencers on human and organisational behaviours. Effectively adopting, adapting, and evaluating digital health interventions in this context presents ongoing challenges, including poor uptake, inappropriate use, and potential abandonment over time. While the field of implementation science offers theories, models, and frameworks to identify and modify contextual influencers within health systems, there is no one-size-fits-all approach or 'gold standard'. Instead, key translational factors serve as underlying drivers of implementation success. These factors include adapting interventions to context, building implementation capacity, engaging stakeholders, effective communication and dissemination, and sustainable evaluation. However, harnessing these factors to optimize implementation processes and outcomes remains particularly challenging within the health system context. In this panel discussion, a diverse and experienced team of digital health and implementation science leaders will engage in a frank conversation about their perspectives and strategies in leveraging these translational factors across a range of health contexts. The

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discussion will draw from insightful case studies, both current and prior, from the panellists' own work, illustrating practical applications and lessons learned.

**Methods**

This will be an interactive facilitated panel session to ensure that all panellists have an opportunity to contribute their perspectives and insights. The discussion will be structured around five translational factors underlying implementation processes and outcomes: 1. adapting interventions to context, 2. building implementation capacity, 3. engaging stakeholders, 4. effective communication and dissemination and 5. sustainable evaluation. The panellists will begin by providing their perspective on these translational factors including barriers and enablers to leveraging each for implementation success. They will do this by delving into case studies drawn from their own work, current and prior, to illustrate practical applications across diverse health contexts. To encourage audience participation, there will be dedicated time for questions and answers, allowing attendees to interact directly with the panellists. Attendees will have the opportunity to seek clarification, share their own experiences, and engage in thoughtful discussions, fostering a collaborative learning environment.

This session will be moderated by Dr Sundresan Naicker, an implementation scientist and health systems research fellow at the Australian Centre for Health Services Innovation (AusHSI), Queensland University of Technology. The panel will consist of: Professor Steven McPhail- Director of the Australian Centre for Health Services Innovation (AusHSI) and the Centre for Healthcare Transformation at the Queensland University of Technology, where he is the Professor of Health Services Research; Professor Gillian Harvey- Deputy Director, Knowledge Translation (Caring Futures Institute) and Professor of Health Services and Implementation Research at Flinders University and Professor Melissa Baysari- Professor in Human Factors at the University of Sydney.

**Main findings**

By the end of the panel discussion, attendees can expect to have gained a pragmatic understanding of the translational factors involved in implementing complex interventions (i.e., digital health) in complex systems (i.e., health systems). They will have gained practical know-how, real-world examples, and actionable strategies to enhance their own implementation efforts and drive positive change within their organizations and communities.