

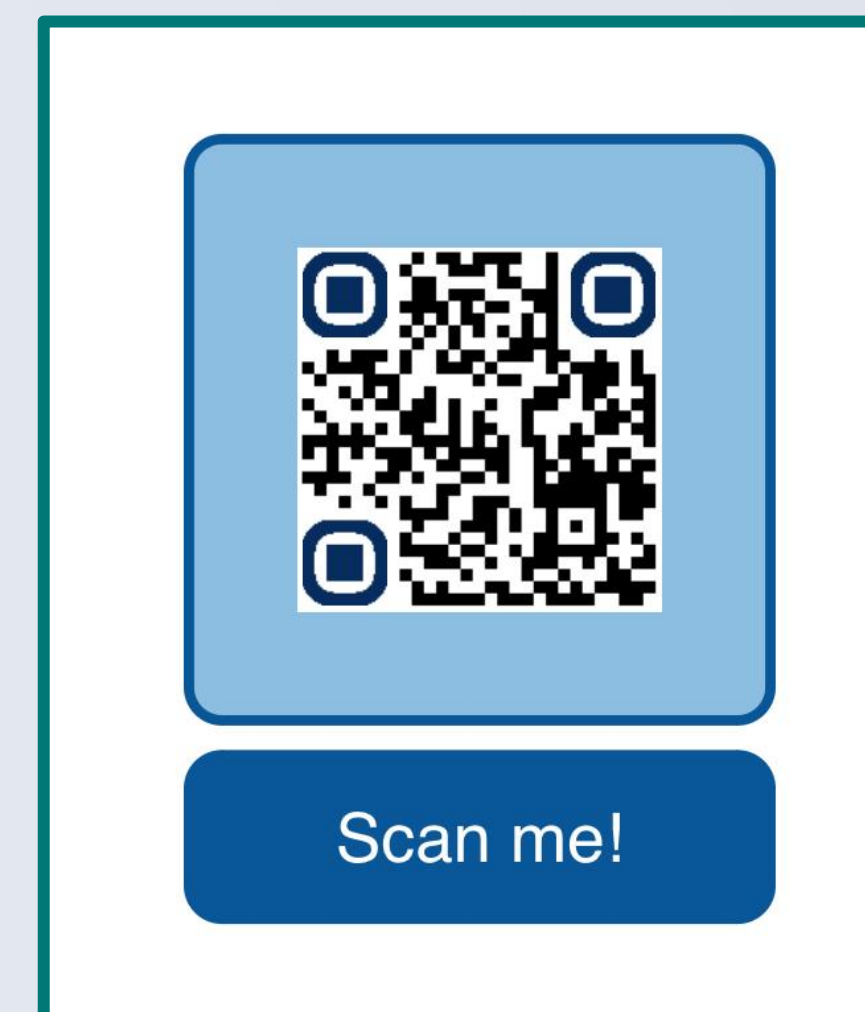
Using digital solutions to increase access and implementation to best practice evidence

Jessica Goldsmith¹, A/PROF Nicole Argall^{1,2}, Alanna Keating^{1,2}, PROF Anastasia Hutchinson^{1,2}

¹Epworth HealthCare Clinical Education, ²Deakin University Centre for Quality and Patient Safety Research

Introduction

- > Implementation of best practice recommendations into clinical practice at the bedside can be challenging for busy clinicians. Barriers to implementation include obtaining rapid access to relevant evidence-based recommendations that address key clinical questions.¹
- > This study evaluated the introduction of a QR coding system and digital platform, that allowed staff to be linked directly into the relevant clinical practice guideline and educational micro-learning video resources.

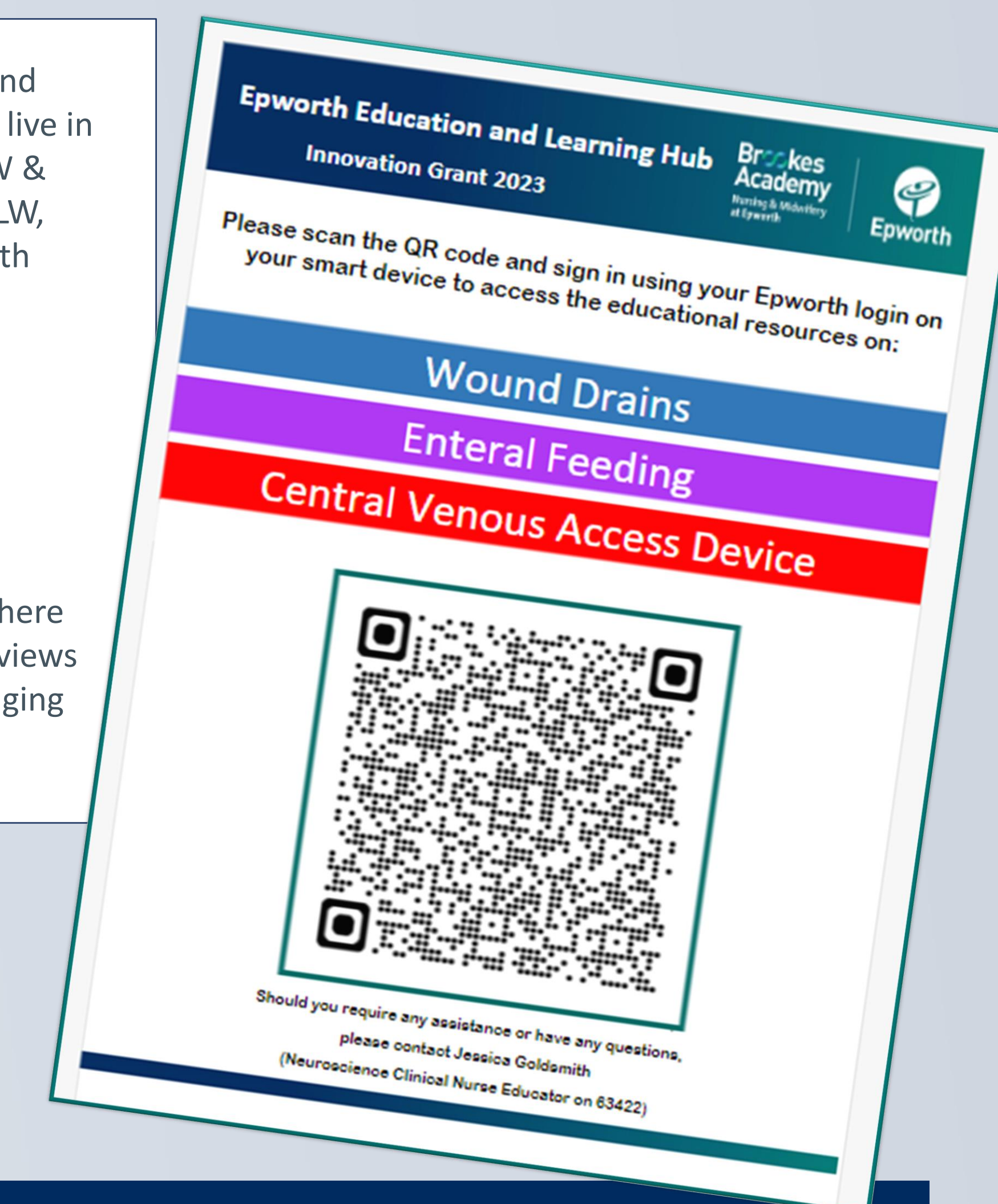


Please scan the QR code to preview the Education and Learning Hub

> The Epworth Education and Learning Hub is currently live in all the Neuroscience (4LW & 4CA) and Orthopaedic (5LW, 6LW, 3BE) Units at Epworth HealthCare Richmond

- Wound Drains
- Enteral Feeding
- Central Venous Access Devices

> Over the past 2 months there have been a total of 457 views of this information, averaging 4m 57s per view



Aims and Objectives

Issues:

- > Policy, protocol and guideline utilization was low.
- > Policy, protocol and guidelines resources was timely to access.

Aims:

- > Decrease repetition of verbal information and avoid potential communication breakdown
- > Decrease risk of error
- > Increase currency and consistency of practice
- > Find a more suitable approach

Methods

Mixed methods repeated measures study

- > Nurses in leadership roles, clinical educators and junior nurses working on 3 intervention wards were surveyed using easily accessible questionnaires before and after the introduction of the digital platform.
- > The rates of adverse events and near misses will be obtained from routinely collected data recorded in the RiskMan database.

Survey Access

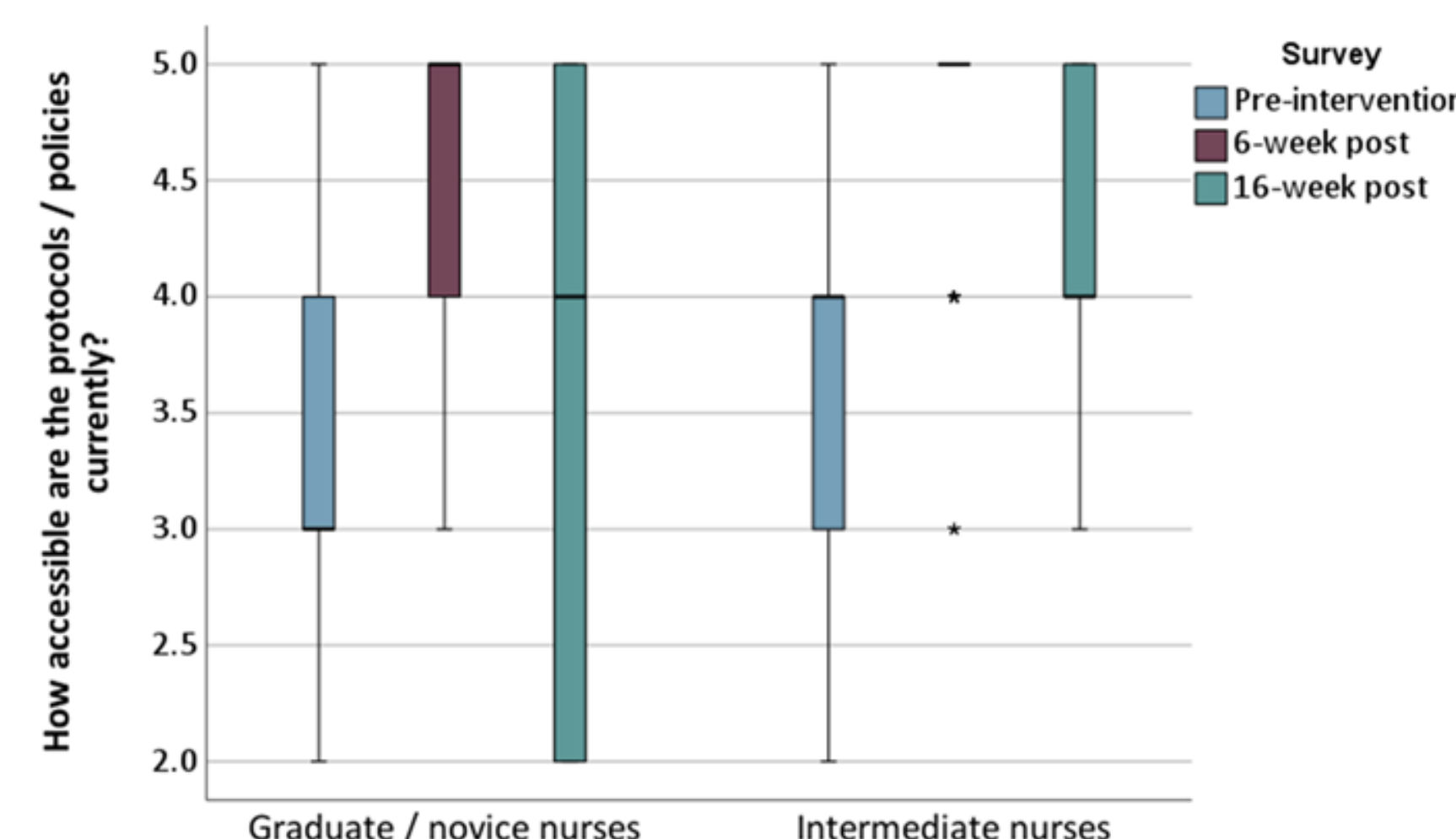
Graduate Staff Survey: Innovative Project Survey- Initial Questionnaire

Intermediate/Senior Staff Survey: Innovative Project Initial Questionnaire

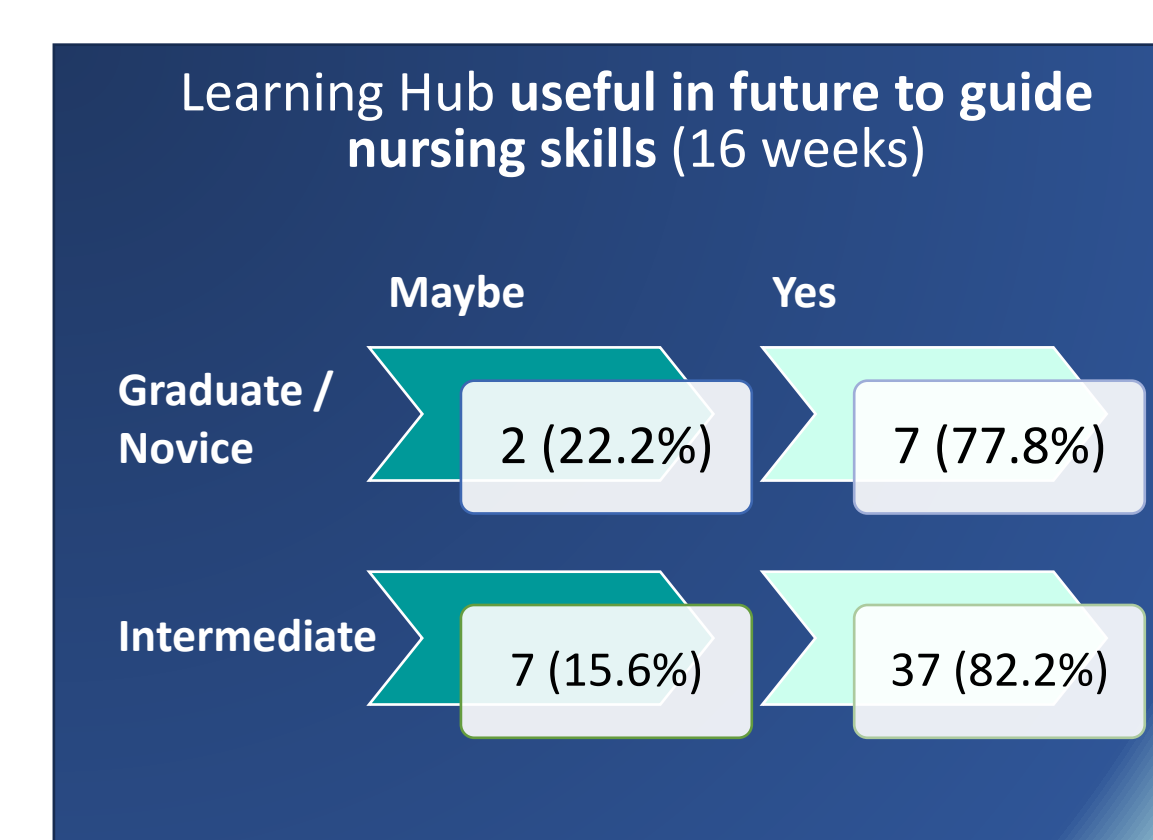
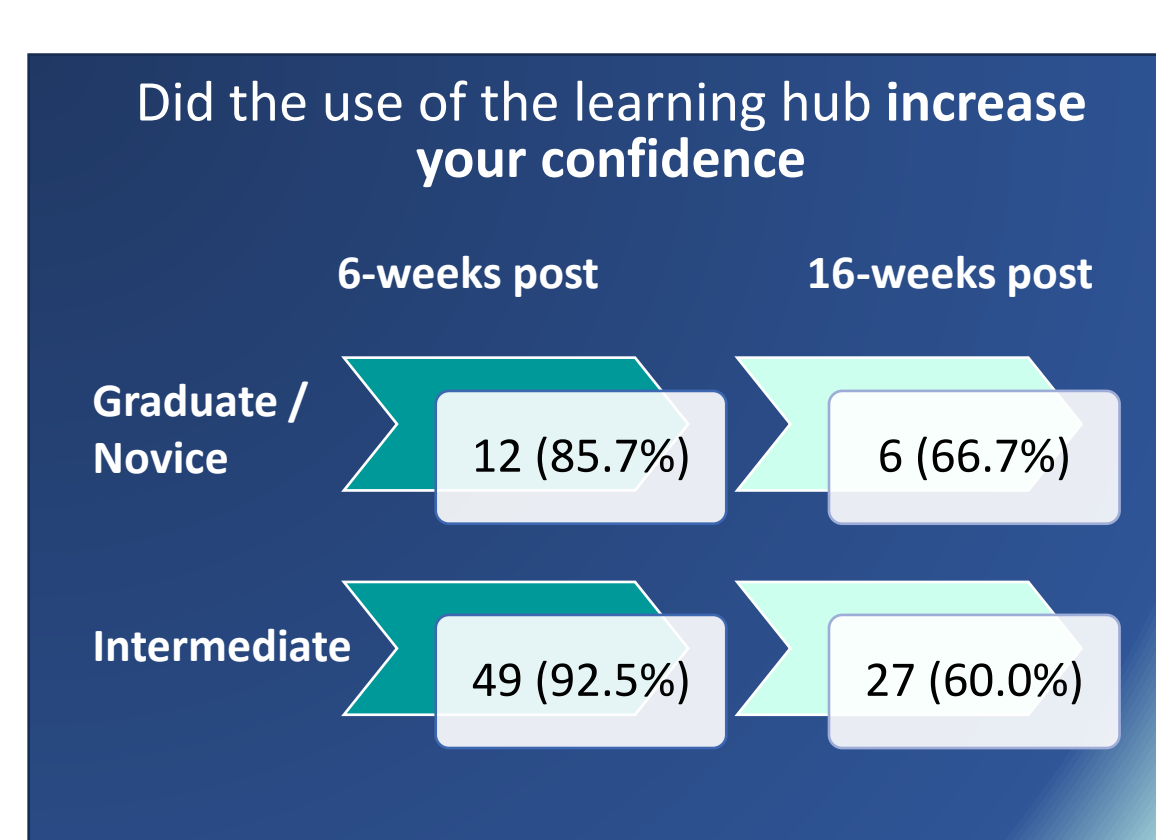
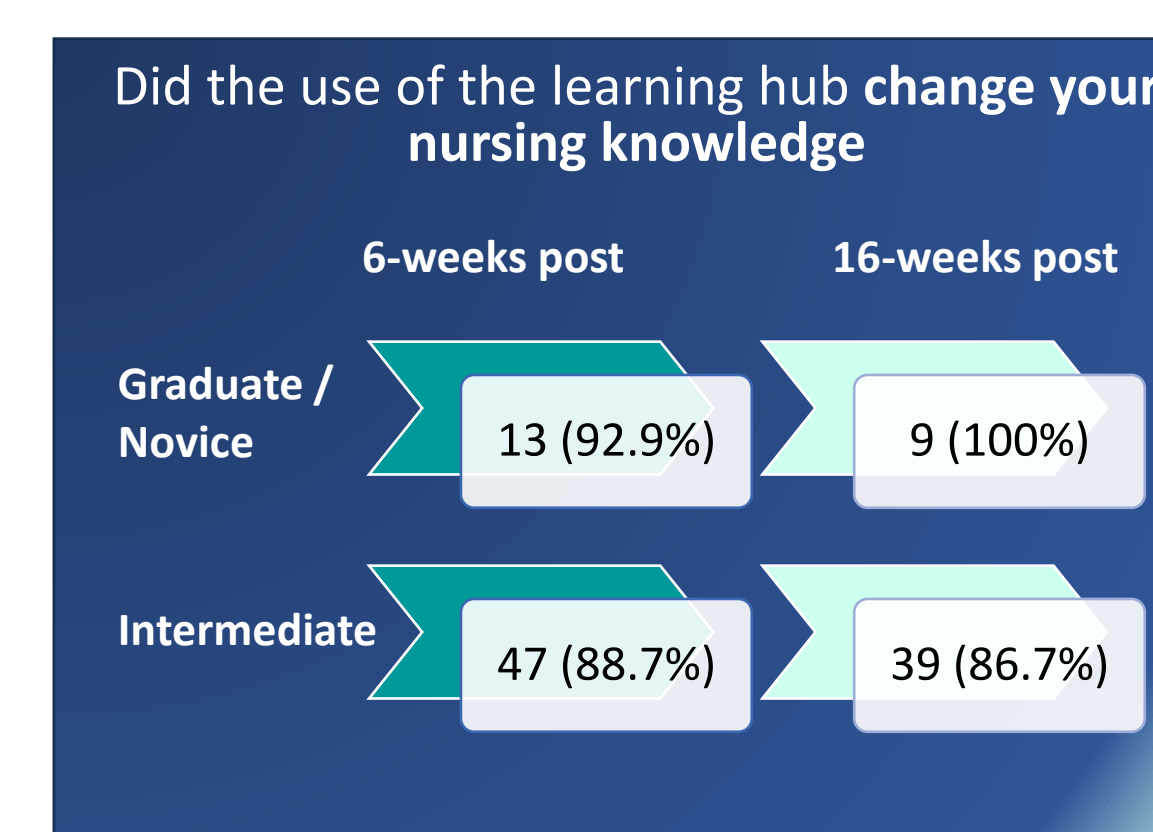
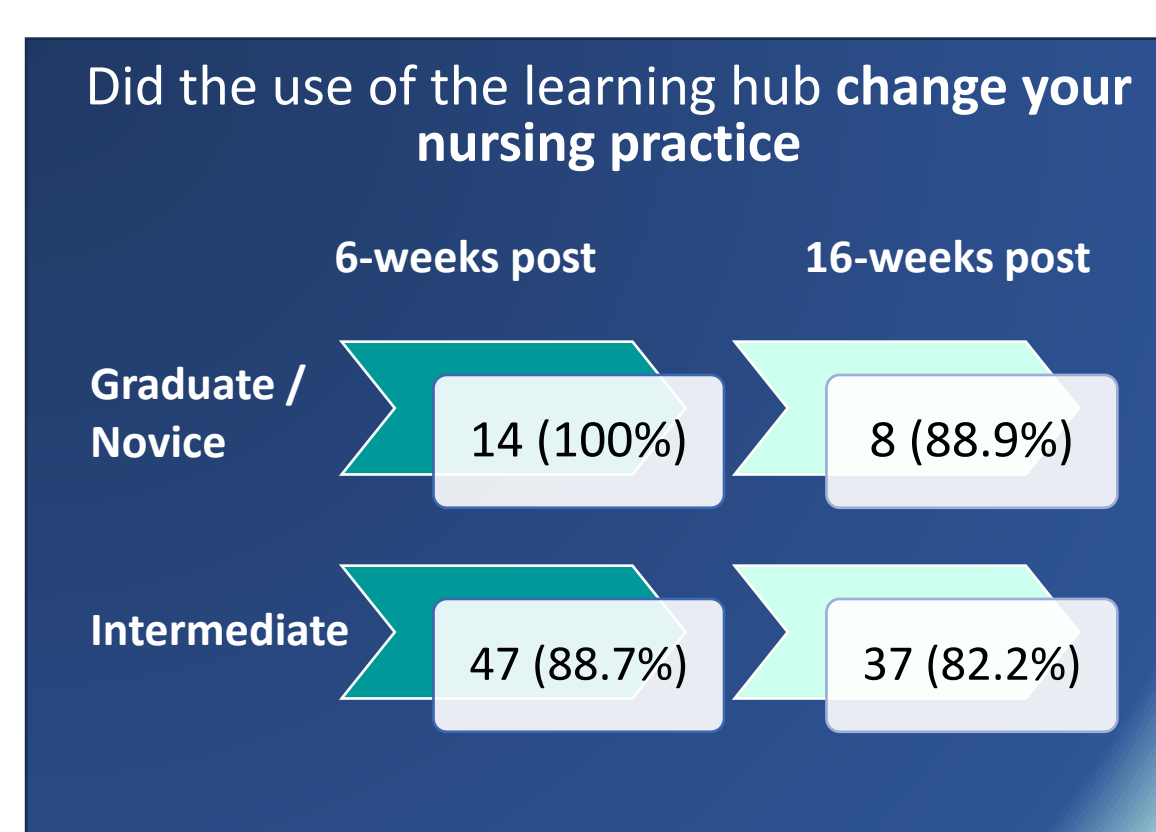
NUM/ANUM/CNE Survey: Innovative Project Survey- Initial Questionnaire

Results

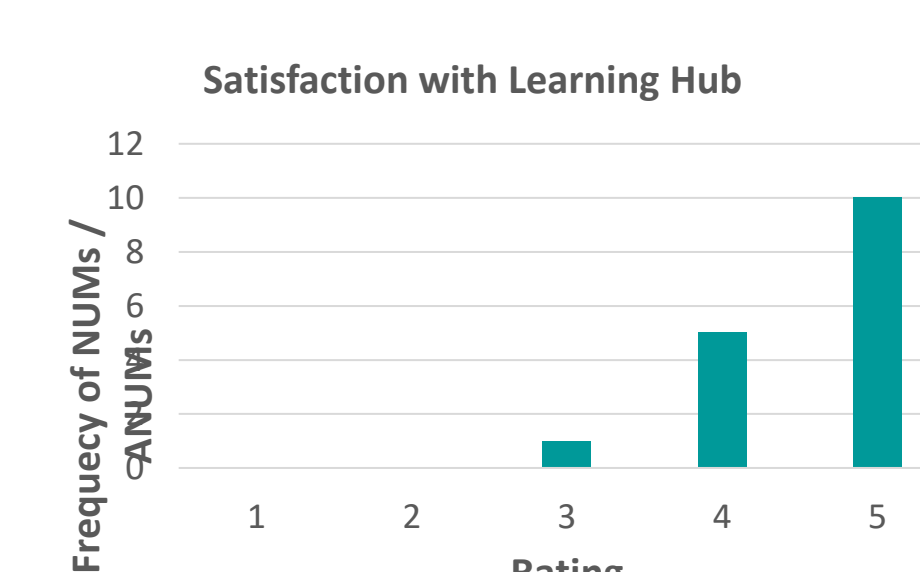
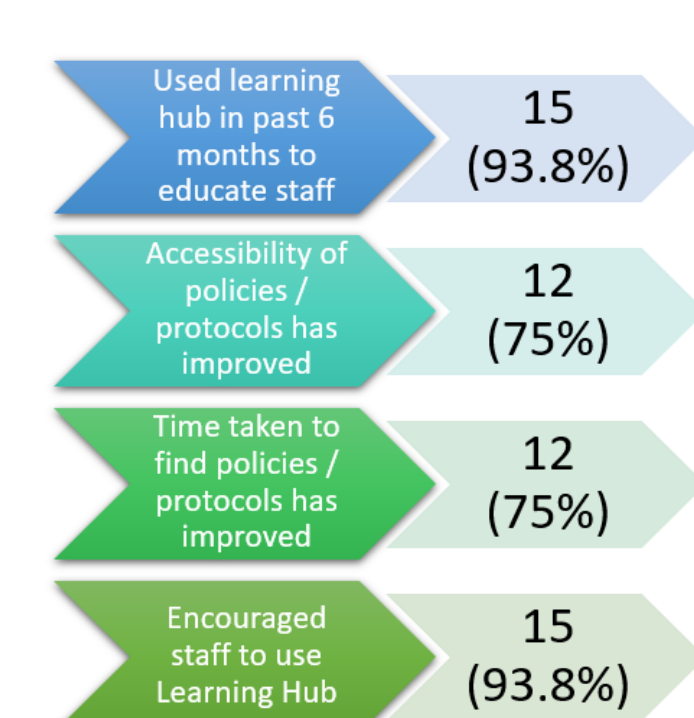
2023 Post Implementation of the Learning Hub:



- > Ratings of the accessibility of policies and protocols was significantly higher
 - 6-weeks post intervention ($p < .001$, $d = 1.6$).
 - 16-weeks post intervention ($p < .001$, $d = .88$).



Clinical Leaders perceptions of the Learning Hub



Discussion

Project impact

- > Nurses increased utilisation of Epworth protocols and best practice information
 - This will lead to less error in clinical care and increased quality of care for patients.
- > The need for this type of digital platform has been expedited due to:
 - Large number of new and junior staff joining
 - Nursing staff being time poor

Conclusion/Implications for Practice

- > Nearly all nurses were certain that the learning hub would be useful in the future to guide nursing skills.
- > The learning hub improved nurses' confidence
- > Most nurses perceived that the learning hub changed their nursing knowledge
- > Almost all nurses perceived that the learning hub changed their nursing practice

References

1. Geerligs, L., Rankin, N. M., Shepherd, H. L., & Butow, P. (2018). Hospital-based interventions: A systematic review of staff-reported barriers and facilitators to implementation processes. *Implementation Science*, 13(1), 1–17. <https://doi.org/10.1186/s13012-018-0726-9>