



2022

# RBWH Research Report

**NURSING AND MIDWIFERY  
SERVICES**

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# Nursing and Midwifery Research Centre

## Research highlights for the year (1 January – 31 December 2022)

It seems every year the Nursing and Midwifery Research Centre exceeds the outcomes of the previous year, and 2022 was certainly no exception. In a post-COVID world of change and uncertainty, one thing we have continued to deliver on is *progress*. Progress in our research endeavours, and progress in the Nursing and Midwifery profession as a whole. We are incredibly proud to report five of our esteemed colleagues have completed their Doctor of Philosophy (PhD) programmes in 2022. Congratulations to Anthony Batterbury, Amanda Corley, Adriana Hada, Sonia Hines and Haunnah Rheault. This essential element of research capacity-building remains core business, and we wish our colleagues all the best with their continuing research endeavours.




We would also like to highlight the achievement of Dr Judy Munday and Professor Jed Duff who were recently awarded a 2022 National Health and Medical Research Council Partnership Grant (\$1.1 Million) for the PeriWarm Trial: “Transforming perioperative temperature management for better patient outcomes.” This important research will commence in 2023 and we are very excited to see this work in practice at the Royal Brisbane and Women’s Hospital. 2022 saw an additional 15 grants awarded within the Nursing and Midwifery Research Centre, totalling \$1.9 Million. This work is in addition to the 11 Nursing/Midwifery-led hospital-based research studies and trials that are *currently* being undertaken in service lines across RBWH (including two with a particular focus on improving Nursing and Midwifery care among Aboriginal and Torres Strait Islander healthcare consumers).

Information dissemination and knowledge-sharing continues to be an important element of the Nursing and Midwifery Research Centre, and has culminated in 57 peer-reviewed publications, and 29 conference presentations (abstract or oral presentations) in 2022 alone. The Evidence Based Program (EBP) also recommenced full capacity in 2022 (following some inherent COVID-10 disruptions in 2020-21) and appears more popular than ever. This important 12-week program provides Nurses and Midwives with a launching pad, on which to advance their skills, practice, and knowledge of research critical appraisal; enabling them to answer clinically relevant questions from their own clinical units. In response to the ever-growing interest in this important program, Professor Jed Duff (Joint Appointment, QUT/RBWH) has championed the commencement of the adjunct support program to EBP: “Evidence Based Implementation” focussed on prompting real clinical change based on existing evidence. We welcome all interested Nurses and Midwives to lodge their interest in these programs in 2023 – spaces are filling up fast!

## Successful PhD candidates in 2022

Name	PhD Title	Month Completed	Affiliated University	Summary
Anthony Batterbury	How sick is too sick and how heavy too heavy? A mixed method study to understand clinical acuity and dependence to define thresholds for escalation or resource mobilisation	July 2022	Queensland University of Technology	Hospitalised patients who deteriorate and require emergency medical review will most likely remain on a general ward after the review. Judgements about the level of care required to safely manage these patients on the ward after medical emergency team review are complex, but rarely incorporate a formal assessment of illness severity. This challenges staff and ward resource allocation practices and patient safety. This study measured the illness severity, in terms of physiological acuity and interventional dependency, of patients after emergency medical review. Novel statistical methods were used to identify then profile patient risk for death and potentially preventable adverse outcomes.



Name	PhD Title	Month Competed	Affiliated University	Summary
Amanda Corley	The use of a securement bundle to prevent intravenous catheter failure.	March 2022	Griffith University	Peripheral intravenous catheters (PIVCs) are the most common invasive medical device however up to two-thirds will fail before treatment is complete. Single dressing or securement products are ineffective at preventing PIVC failure, however no evidence exists on multiproduct securement bundles. My PhD aimed to explore securement bundles and was multiphase: 1) an analysis of 40,637 PIVCs to identify high-performing products to be included in securement bundles; 2) a pilot RCT testing the developed bundles. In phase 1, 2 multiproduct bundles were associated with fewer site and dressing complications. The pilot RCT showed it was feasible and safe to test these in a larger trial. This should be prioritized to reduce PIVC failure rates.
				
Adriana Hada	Transforming patient outcomes through improved and effective nursing clinical handover	March 2022	Queensland University of Technology	This thesis explored the effect of nursing handover strategies to facilitate the provision of standardised handover communication and enhancement of patient safety in the inpatient wards of a tertiary metropolitan Australian hospital. The outcomes included improved nursing compliance with best practice nursing shift-to-shift handover, and improved direct patient outcomes, including a reduction in falls, pressure injuries, and medication errors. The findings of this research contribute to a theoretical understanding of best practice nursing shift-to-shift handover in the participating wards and could influence nursing practice, education, policy, and future research for the benefit of patient safety and quality of care.
				
Sonia Hines	An educational intervention to improve nurses' research literacy	April 2022	Queensland University of Technology	This thesis aimed to explore nurses' research literacy in terms of potential interventions to improve research literacy, and nurses' experiences of engaging with research literature. Four works were conducted to explore this issue: a quantitative systematic review, a quantitative pilot study, a qualitative systematic review, and a qualitative descriptive study to answer the research questions. Overall, nurses often feel research is an 'optional extra' to nursing, a secondary skillset unrelated to their ability to be a nurse. Most significantly, there are strong indications that nurses' feelings about research and its place in their daily work lives are strongly connected to their engagement with evidence-based practice.
				

Name	PhD Title	Month Competed	Affiliated University	Summary
Haunnah Rheault	Examining the health literacy and chronic disease self-management of remote Aboriginal Australians: A mixed method study	March 2022	Queensland University of Technology	Chronic disease is the most significant contributor to the mortality gap between Australia's First Nations people and the overall Australian population. This study explored chronic disease self-management and health literacy in First Nations adults living in remote Queensland. Key findings were poor communication by healthcare providers coupled with limited health literacy abilities of people were the major barriers to active engagement with managing chronic disease. Providing a supportive health literacy environment and the provision of appropriate health information delivered in a cultural safe way using clinical yarning, may assist with closing the gap in First Nations people.

## Research Awards and Achievements

Recipient (RBWH staff in bold)	Award	Event
<b>Amanda Corley</b>	Research Encouragement Award	AVATAR Group, Griffith University
<b>Judy Munday</b>	Awarded Australian College of Perioperative Nursing Research Fellowship (Post Doc)	Australian College of Perioperative Nursing
Samantha Keogh, <b>Jayesh Dhanani</b> , <b>Annabel Levido</b> , <b>Chris Gracie</b> , <b>Vladislav Ilushin</b> , <b>Jennifer Palmer</b> , Suzie Parker, Anna Doubrovsky, Flavia Hyugens, <b>Fiona Coyer</b>	Best Nursing Free Paper Award: Evaluation of a closed loop blood sampling system in intensive care: A pilot randomised controlled trial. The ENCLOSE trial	ANZICS/ACCCN Intensive Care ASM Conference
<b>Emily Larsen</b>	2022 Griffith Health Group Primary Carer's Travel Scholarship	Griffith University
<b>Emily Larsen</b>	Professor Joan Webster Nursing and Midwifery Award	2022 Research Excellence Awards
Nursing & Midwifery Research Centre	Finalists: 2022 Metro North Health Research Excellence Awards for Evidence Based Practice Program	2022 Research Excellence Awards
<b>Emily Larsen</b>	2022 RBWH and RBWH Foundation Post Graduate Scholarship	RBWH and RBWH Foundation
<b>Nicole Marsh</b>	Best Poster	Menzies Health Institute Queensland Reconnection Conference, Griffith University
<b>Nicole Marsh</b>	Best International Research Presentation	Intravenous Nursing New Zealand Conference
<b>Nursing &amp; Midwifery Research Centre</b>	Service Line Award for Cultivating Intervention Readiness at the RBWH	Royal Brisbane & Women's Hospital QuARRIES Awards 2022
<b>Emily Larsen</b> and team	Quality Publication Award: Intravenous antimicrobial administration through peripheral venous catheters – establishing risk profiles from an analysis of 5252 devices	2022 Menzies Health Institute Queensland, Griffith University

## Research Grants

Investigator Names (RBWH staff in bold)	RBWH Departments / Research Groups	Research Project Title	Granting Body	Total Awarded (whole all years)	Length of Awards in years and years active
<b>Amanda Corley, Nicole Marsh, Catherine O'Brien, Emily Larsen, Hannah Peach, Barbara Hewer, Indy Pearse, Mary Fenn, Ruth Cocksedge, Claire Rickard, Alanna Geary</b>	Nursing & Midwifery Research Centre, Vascular Access Surveillance and Education, Nursing & Midwifery Metro North, University of Queensland, Griffith University	Does longer peripheral intravenous catheter (PIVC) length optimise antibiotic delivery: a randomised controlled trial to reduce interruptions to intravenous antibiotic delivery (The LEADER study)	RBWH and RBWH Foundation Project Grant	\$73,193	2yrs 2022 – 2023
<b>Amanda Corely,</b>	Nursing & Midwifery Research Centre, Vascular Access Surveillance and Education, University of Queensland,	Does length peripheral intravenous catheter (PIVC) length optimise antibiotic delivery: a randomised controlled trial to reduce interruptions to intravenous antibiotic delivery (The LEADER study)	Cardinal Health Infection Control Scholarship 2021 Major Research Project	\$14,806	2yrs 2022-2023
Nathan Peters, Claire Rickard, Fiona Williamson, Michelle Bauer-Leo, Peter Snelling, Adam Stewart, Stacey Lewellyn, <b>Nicole Marsh</b>	Nursing & Midwifery Research Centre, Anaesthetics, Emergency Department, Microbiology, University of Queensland	Non-inferiority of low-level versus high-level disinfection for the elimination of bacteria on contaminated transcutaneous ultrasound transducers: A randomised controlled trial	ASUM Research Grant	\$20,000	1yr 2022
<b>Yashni Kander, Cory Williams, King Law, Geoffrey Binge, Patricia Kennedy, Jed Duff, Peter Buttrum, Gillian Nasato, Danielle Heffernan, Kathleen Ryan, Elizabeth Strathdee, Kaylene Woollett, Kerri Gane, Hannah Carter</b>	Nursing & Midwifery Research Centre, Patient Flow Services, Surgical & Perioperative Services, Allied Health, Internal Medicine Services,	Improving access to tertiary and quaternary health services for Aboriginal and Torres Strait Islander patients	Qld Health NM Research Grant	\$20,000	1yr 2022
Claire Rickard, Amanda Ullman, <b>Amanda Corley, Nicole Marsh,</b>	Nursing & Midwifery Research Centre	Protect PIVCs: An adaptive randomized controlled trial of a novel antimicrobial dressing for peripheral intravenous catheters (PIVCs): PROP Trial	3M Australia	\$308,933.80	2yrs 2022-2023

Investigator Names (RBWH staff in bold)	RBWH Departments / Research Groups	Research Project Title	Granting Body	Total Awarded (whole all years)	Length of Awards in years and years active
Natasha Roberts, Suzanne Parker, Mark Davies, <b>Jed Duff</b> , Jason Roberts, Adam Irwin, Deanne August, Tracy Comans	Cancer Care Services, Grantly Stable Neonatal Unit, Nursing & Midwifery Research Centre, Herston Infectious Diseases Institute,	iOPTIONS: Implementation of adaptive precision dosing for the optimal treatment of invasive infection in critically ill neonates	Metro North Collaborative Research Grant	\$49,828	1yr 2022
Melanie Lang, <b>Jed Duff</b>	Nursing & Midwifery Research Centre,	Perioperative environments in Australia and the surgical set up: A multiple method study	Australian College of Perioperative Nurses (ACORN) Research Grant	\$10,000	1yr 2022
Sandra Johnson, Amanda Fox, <b>Jed Duff</b>	Nursing & Midwifery Research Centre,	PREVENTION STUDY: A national study on the prevalence and impact of occupational violence among nurses	Queensland University of Technology, SEED Grant	\$10,000	1yr 2022
<b>Judith Munday</b> , <b>Jed Duff</b> , Fiona Wood, David Sturgess, Samantha Keogh, Nicholas Ralph, Nicole White, Hannah Carter, Ian Graham, Margherita Murgo, Nicholas Fernandes, Kerstin Wyssusek, Bipphy Kath, Ruth Melville, Allison Kearney, Mary-Anne Ramis, Kate Kynoch, Christine Woods	Nursing & Midwifery Research Centre, Anaesthetics Department	The PeriWarm Trial: Transforming perioperative temperature management for better patient outcomes	2021 Partnership Projects PRC3	\$1.1m	4yrs 2022-2026
<b>Larsen E</b> , Zunk M, <b>Marsh N</b> , <b>Corley A</b> , <b>Peach H</b> , Cox A, King A, Ware R	Nursing & Midwifery Research Centre	Examining clinical outcomes of patients receiving treatment via long ultrasound-guided peripheral intravenous catheters: an observational cohort study (the EXTEND Study)	MNH/Griffith University Collaborative Research Grant 2022	\$50,000	2yrs 2022-2023
<b>Marsh N</b> , <b>Corley A</b> , Byrnes J, <b>Larsen E</b> , Hewer B, Ware R, <b>O'Brien C</b> , <b>Peach H</b>	Nursing & Midwifery Research Centre, Vascular Access Centre, Griffith University	Cost-benefit analysis and clinical effectiveness of peripheral intravenous device selection and insertion by a vascular access specialist (The SELECT Study)	2023 SERTA Project Grant, Royal Brisbane & Women's Hospital and RBWH Foundation	\$74,685	1.5yrs 2022-2023

Investigator Names (RBWH staff in bold)	RBWH Departments / Research Groups	Research Project Title	Granting Body	Total Awarded (whole all years)	Length of Awards in years and years active
<b>Kearney, L</b> , Eley V, Swift A, Jenkinson B, <b>Marsh N</b> , Spinks J, de Jearey S, Thompson J, <b>August D</b> , Ullman A	Women's & Newborn Services, Anaesthetics, Nutrition & Dietetics, Nursing & Midwifery Research Centre	Fluids in Labour: Ensuring Maternal Euvolaemia (FLUME) study	2023 SERTA Project Grant, Experienced Researcher, Royal Brisbane & Women's Hospital and RBWH Foundation	\$60,268.00	1.5yrs 2022-2023
<b>Duff J</b> , Meloncelli N, Purtell L, Pattullo C, Rosengren D, Cameron A, Barnes R, Black S, Wainwright L, Dallura L, Hobday S	Nursing & Midwifery Research Centre, Safety Implementation Services, Speech Pathology, Clinical Education and Training, Clinical Skills Development Service, Workforce Development Service, Metro North Research	Evaluating the Helix4 implementation practice capacity building program	2023 SERTA Project Grant, Royal Brisbane & Women's Hospital and RBWH Foundation	\$73,087	1.5yrs 2022-2023
<b>Duff J</b> , Keogh S, Pearse B, Ramanan M	Nursing & Midwifery Research Centre, Queensland University of Technology, Blood Management TPCH, Intensive Care Unit TPCH	Barriers and facilitators to blood conservation practice in intensive care	2023 CHT Internal Grant Scheme	\$23,462	1yr 2022
<b>Corley A</b> , <b>Larsen E</b> , <b>Marsh N</b> , Bloomer M	Nursing & Midwifery Research Centre, Griffith University	Vascular haemodialysis catheters in the intensive care: a survey of bedside maintenance practices to address high infection rates and catheter failure	Australasian College for Infection Prevention and Control	\$6,844.20	1yr 2022

### Current RBWH Department / Research Group Led Research Activity

Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2022
<b>Amanda Corley</b>	<b>Nicole Marsh</b> , <b>Catherine O'Brien</b> , <b>Emily Larsen</b> , <b>Hannah Peach</b> , <b>Barbara Hewer</b> , Indy Pearse, Mary Fenn, Ruth Cocksedge, Claire Rickard, <b>Alanna Geary</b>	Does longer peripheral intravenous catheter (PIVC) length optimise antibiotic delivery: a randomised controlled trial to reduce interruptions to intravenous antibiotic delivery (The LEADER study)	143



Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2022
<b>Judy Munday</b>	<b>Jed Duff</b> , Fiona Wood, David Sturgess, Samantha Keogh, Nicholas Ralph, Nicole White, Hannah Carter, Ian Graham, Margherita Murgio, Nicholas Fernandes, Kerstin Wyssusek, Bippity Kath, Ruth Melville, Allison Kearney, Mary-Anne Ramis, Kate Kynoch, Christine Woods	The PeriWarm Trial: Transforming perioperative temperature management for better patient outcomes	0
<b>Emily Larsen</b>	Zunk M, <b>Marsh N, Corley A, Peach H</b> , Cox A, King A, Ware R	Examining clinical outcomes of patients receiving treatment via long ultrasound-guided peripheral intravenous catheters: an observational cohort study (the EXTEND Study)	0
<b>Nicole Marsh</b>	<b>Amanda Corley</b> , Joshua Byrnes, <b>Emily Larsen</b> , Barbara Hewer, Robert Ware, <b>Catherine O'Brien, Hannah Peach</b>	Cost-benefit analysis and clinical effectiveness of peripheral intravenous device selection and insertion by a vascular access specialist (The SELECT Study)	0
<b>Jed Duff</b>	Nina Meloncelli, Louise Purtell, Champika Pattullo, David Rosengren, Ashley Cameron, Rhiannon Barnes, Sarah Black, Luke Wainwright, Louise Dallura, Sharon Hobday	Evaluating the Helix4 implementation practice capacity building program	0
<b>Corley A</b>	<b>Larsen E, Marsh N</b> , Bloomer M	Vascular haemodialysis catheters in the intensive care: a survey of bedside maintenance practices to address high infection rates and catheter failure	0
<b>Nicole Marsh</b>	Claire Rickard, <b>Amanda Corley, Emily Larsen, Fiona Coyer</b>	Securing jugular central venous lines with dressings fixed to a liquid adhesive (Mastisol) in an Intensive Care Unit population (STICKY Trial)	15
<b>Judy Munday,</b>	<b>Jed Duff</b> , Sameera Sananavake, Kimberley Ryan, Sarah Johns, Jacqui Haselmore, Florian Grimpfen	Temperature decline during procedural sedation: an observational study	300
<b>Jed Duff,</b>	<b>Judy Munday</b> , Lita Olsson, Joanna Griffiths	Evaluating the ambassador occupational violence prevention program	4
<b>Judy Munday</b>	<b>Jed Duff</b>	The Temperature Toolkit Project (the Study) Phase 1	0
<b>Jed Duff</b>	Michael Chataway, <b>Andy Carter</b>	Testing a novel approach for monitoring the incidence, fear and perceived risk of occupational violence among healthcare workers	0

### Collaborative Research Activity Involving RBWH Department / Research Group

Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2022
<b>Nathan Peters</b>	Claire Rickard, Fiona Williamson, Michelle Bauer-Leo, <b>Peter Snelling, Adam Stewart</b> , Stacey Lewellyn, <b>Nicole Marsh</b>	Non-inferiority of low-level versus high-level disinfection for the elimination of bacteria on contaminated transcutaneous ultrasound transducers: A randomised controlled trial	100

Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2022
Claire Rickard	Amanda Ullman, <b>Amanda Corley, Nicole Marsh</b> , Robert Ware, Emily Monteagle	Protect PIVCs: An adaptive randomized controlled trial of a novel antimicrobial dressing for peripheral intravenous catheters (PIVCs): PROP Trial	0
Natasha Roberts	Suzanne Parker, Mark Davies, <b>Jed Duff</b> , Jason Roberts, Adam Irwin, Deanne August, Tracy Comans	iOPTIONS: Implementation of adaptive precision dosing for the optimal treatment of invasive infection in critically ill neonates	0
Melanie Lang	<b>Jed Duff</b>	Perioperative environments in Australia and the surgical set up: A multiple method study	0
Sandra Johnson	Amanda Fox, <b>Jed Duff</b>	PREVENTION STUDY: A national study on the prevalence and impact of occupational violence among nurses	0
<b>Kearney, L.</b>	Eley V, Swift A, Jenkinson B, <b>Marsh N</b> , Spinks J, de Jearey S, Thompson J, <b>August D</b> , Ullman A	Fluids in Labour: Ensuring Maternal Euvolaemia (FLUME) study	0
Marianne Kirrane,	Mathilde Desselle, David Forrestal, Luke Wainwright, George Pang, Chris Futter, <b>Fiona Coyer</b>	Improving critical care outcomes by reducing the risk of pressure injuries to the face in prone patients	0
<b>Cory Williams</b>	<b>Judy Munday</b> <b>Jed Duff</b>	The co-design and evaluation and an e-health app to improve the perioperative patient journey and facilitate integrated care: a pilot randomised control trial	0
Alana Delaforce,	Shannon Farmer, Janet Hardy, <b>Jed Duff, Judy Munday</b> , Kristin Miller, Lynne Glover, Gareth Ansell, Chris Corney, Cameron Hurst, Haitham Tuffaha	A theoretically informed approach to support the implementation of preoperative anaemia and iron deficiency screening, evaluation and management pathways (PAIDSEM-P): a type 2 hybrid-effectiveness study	0
Bronwyn Griffin,	Roy Kimble, Fiona Wood, Andrew Holland, Stephen McPhail, Warwick Teague, Leila Cuttle, <b>Jed Duff</b> , Natalie Phillips, Dianne Crellin, Yvonne Singer, Cody Frear, Dimitrios Vagenas, Alexandra Young, Pauline Calleja	Implementation of Negative Pressure for Acute Paediatric Burns	0
Linda Coventry	Shirene Richards, Loreta Murphy, Lynda Parris, <b>Nicole Marsh</b>	Use of midline catheters compared with peripheral intravenous catheters in neurosurgical patients: a retrospective cohort study and economic analysis	Not recruiting at RBWH
Grace Xu,	Scott Stirling, Carrie Wong, <b>Nicole Marsh</b> , <b>Amanda Corley</b> , Robert Ware, Son Nghiem	Does long peripheral intravenous catheter with retractable coil tip guidewire optimise first insertion success rate for patients with difficult intravenous access in emergency departments: a randomised controlled trial (LOVE-DIVA)	430
Nina Meloncelli,	Katrina Campbell, <b>Jed Duff</b> , Jeff Rowland, Samantha Dillon	Be-open to change: putting value-of-care decision making into the hands of clinicians	0

Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2022
Salihah Asiri,	<b>Judy Munday</b> <b>Jed Duff</b> , Michelle Guilhermino, Chamindie Punyadeera, <b>Elizabeth Strathdee</b> , <b>Christine Woods</b>	The effectiveness of virtual reality technology on perioperative anxiety among adults undergoing elective surgery	95
Amanda Ullman,	<b>Nicole Marsh</b> , Andrew Bulmer, Naomi Runnegar, Tricia Kleidon, Paul Lee-Archer, Benjamin Pearch, Deanne August, Cathy Biles, Joshua Byrnes, Vineet Chopra, Alan Coulthard, Rob Ware, Claire Rickard, Marianne Wallis, Peter Mollee	Peripherally inserted central catheter innovation to reduce infections and clots: the PICNIC trial	109
Claire Rickard,	Amanda Ullman, <b>Nicole Marsh</b> , Tricia Kleidon, Gerben Keijzers, Jessica Schults, Marie Cooke, Joshua Byrnes, Robert Ware, <b>Louise Cullen</b> , Pauline Calleja, Fiona MacFarlane, Steven McTaggart, Henry Goldstein, <b>Nathan Peters</b> , <b>Catriona Booker</b> , <b>Stephanie Hadikusumo</b> , <b>Krispin Hajkowicz</b> , Stuart Watkins, Audra Gedmintas, <b>Kerri McLeod</b> , Herbert Down, Jeremy Wellwood, Mark Elcock	Difficult peripheral intravenous catheter insertion: Australian considerations for sustainable implementation of ultrasound guided procedures	485
Shaun O'Leary,	<b>Adrienne Young</b> , Diann Eley, <b>Peter Buttrum</b> , <b>Merrilyn Banks</b> , <b>Nicole Marsh</b> , <b>Mark Cruickshank</b> , James Elliott, Nicholas Talley, Scott Bell	Sustainable career pathways for clinician-scientists in Australian public health	N/A
Chaboyer W	Gillespie B, McInnes E, Rickard C, Ullman A, Scott I, <b>Coyer F</b>	Centre for Excellence – Wiser Wounds	0

## Research Activity With a Specific Focus on First Nations People

Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2022
<b>Yashni Kander</b>	<b>Cory Williams</b> , <b>King Law</b> , <b>Geoffrey Binge</b> , Patricia Kennedy, <b>Jed Duff</b> , <b>Peter Buttrum</b> , <b>Gillian Nasato</b> , <b>Danielle Heffernan</b> , Kathleen Ryan, <b>Elizabeth Strathdee</b> , <b>Kaylene Woollett</b> , <b>Kerri Gane</b> , Hannah Carter	Improving access to tertiary and quaternary health services for Aboriginal and Torres Strait Islander patients	0
Di Marsden	Baker, R Peake, M Whitson, S Ormond, M Wilkes, F Minett, M Cutmore, J Birnie, A Styles, K Boyle, M Paul, M Pollack, CG Esperon, <b>J Duff</b> , D Cadilhac, J Wiggers, K Hill, K Jackson, K Hennessey, J Goodenough	Let's have a yarn about our bladder: partnering with Aboriginal people to deliver guideline-recommended urinary continence and lower urinary tract symptom care that is culturally-appropriate and safe	0

# Research Publications

## Authors

Investigator	ORCID ID
Nicole Marsh	<a href="https://orcid.org/0000-0002-5779-1304">https://orcid.org/0000-0002-5779-1304</a>
Fiona Coyer	<a href="https://orcid.org/0000-0002-8467-0081">https://orcid.org/0000-0002-8467-0081</a>
Jed Duff	<a href="https://orcid.org/0000-0003-1427-0303">https://orcid.org/0000-0003-1427-0303</a>
Amanda Corley	<a href="https://orcid.org/0000-0002-4250-4077">https://orcid.org/0000-0002-4250-4077</a>
Emily Larsen	<a href="https://orcid.org/0000-0001-6272-8484">https://orcid.org/0000-0001-6272-8484</a>
Judy Munday	<a href="https://orcid.org/0000-0003-3596-5235">https://orcid.org/0000-0003-3596-5235</a>

## Publications in 2022

### Journal Articles (RBWH staff in bold)

**Corley A, Marsh N**, Ullman A. Peripheral intravenous catheter securement: An integrative review of contemporary literature around medical adhesive tapes and supplementary securement products. *Journal of Clinical Nursing*. 2022. <https://doi.org/10.1111/jocn.16237>

McIntyre C, August D, Cobbald L, Lack G, Foxcroft K, **Marsh N**, et al. Neonatal vascular access practice and complications: an observational study of 1,375 catheter days. *Journal of Perinatal and Neonatal Nursing*. 2022. <https://doi.org/10.1097/JPN.0000000000000589>

Evison H, Carrington M, Kejzers G, **Marsh N**, Sweeny A, Byrnes J, et al. Peripheral intravenous cannulation decision-making in emergency settings: a qualitative descriptive study. *BMJ Open*. 2022;12:e054927. <https://doi.org/10.1136/bmjopen-2021-054927>

Wood J, Ebert L, **Duff J**. Implementation methods of virtual reality simulation and the impact of confidence and stress when learning patient resuscitation: An integrative review. *Clinical Simulation in Nursing*. 2022;66:5-17. <https://doi.org/10.1016/j.ecns.2022.02.006>

Cunich M, Barakat-Johnson M, Lai M, Aorra S, Church J, **Coyer F**, et al. A systematic review of the costs, health outcomes and cost-effectiveness of health interventions for the prevention and treatment of incontinence-associated dermatitis. *International Journal of Nursing Studies*. 2022. <https://doi.org/10.1016/j.ijnurstu.2022.104216>

Barakat-Johnson M, Lai M, Stephenson J, Buhr H, Campbell J, **Coyer F**, et al. Efficacy of a heel off-loading boot in reducing heel pressure injuries in intensive care patients: a single-blinded randomised controlled trial in Australia. *Intensive and Critical Care Nursing*. 2022;103205. <https://doi.org/10.1016/j.iccn.2022.103205>

Barakat-Johnson M, Stephenson J, Basjarahil S, Campbell J, Cunich M, **Coyer F**, et al. Clinician knowledge of incontinence-associated dermatitis: A multisite survey of healthcare professionals in acute and sub-acute settings. *J Wound Ostomy Cont*. 2022;49(2):159-167. <https://doi.org/10.1097/WON.0000000000000846>

Barakat-Johnson M, Stephenson J, Dempsey K, Innes L, Jain S, **Coyer F**, et al. Fit testing and comfort evaluation of prophylactic dressing use for healthcare workers under N95/P2 respirators in one health service district in Australia. *Journal of Hospital Infection*. 2022. <https://doi.org/10.1016/j.jhin.2022.02.016>

Barakat-Johnson M, Kita B, Jones A, Burger M, Airey D, **Coyer F**, et al. Redesigning chronic wound care: The viability and acceptability of a Virtual Wound Care Command Centre in Australia. *Int Wound J*. 2022. <https://doi.org/10.1111/iwj.13782>

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Campbell J, Chaboyer W, Tobiano G, Harbeck E, Nowicki T, **Coyer F**, et al. The effect of sub-epidermal moisture on pressure injury prevention strategies and incidence of pressure injuries: A feasibility pilot randomised controlled trial. *Journal of Tissue Viability*. 2022. <https://doi.org/10.1016/j.jtv.2022.07.008>

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## Journal Articles (RBWH staff in bold)

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**Coyer F**, Chaboyer W, Lin F, Doubrovsky A, Barakat-Johnson M, Brown W, Lakshmanan R, Leslie G, Jones SL, Pearse I, Martin K, McInnes E, Powell M, Mitchell M, Sosnowski K, Tallott M, Thompson A, Thompson L, Labeau S, Blot S. Pressure injuries in Australian intensive care units; A secondary analysis. *Aust Crit Care*. 2022;35(6):701-708. <https://doi.org/10.1016/j.aucc.2021.10.009>

August D, Ullman A, **Coyer F**. Device-related pressure injuries across the critical care lifespan. *Nursing in Critical Care*. Invited guest editorial. 9 December 2022. <https://doi.org/10.1111/nicc.12874>

Pearse I, **Corley A**, Seun J, Fraser JF. Extracorporeal membrane oxygenation cannulae-related infection. Diagnostic difficulties and potential prevention. *ASAIO J*. 2022. 68(2):e34-e35. <https://doi.org/10.1097/MAT.0000000000001589>

## Keynote or Plenary Lectures given in 2022

Date	Title
30-31 March 2022	<b>Coyer F</b> . Invited. Provide valuable input into whether the micro-credentialing “exploring knowledge translation in clinical practice course is applicable to researchers working with clinicians in implementation projects. Micro-credentialing “Exploring knowledge translation in clinical practice workshop. Gold Coast, Australia.
27-29 April 2022	Batterbury A, <b>Coyer F</b> . Five illness severity classes of patient reviewed by MET responders: A latent profile analysis. ANZICS/ACCCN Intensive Care ASM Conference. 27-29 April 2022. Sydney, Australia.
27-29 April 2022	Brown J, <b>Coyer F</b> . Exploration into the factors influencing evidence uptake of delirium management in intensive care. A qualitative descriptive study. ANZICS/ACCCN Intensive Care ASM Conference. 27-29 April 2022. Sydney, Australia.
27-29 April 2022	Keogh S, <b>Coyer F</b> . Evaluation of a closed loop blood sampling system in intensive care: A pilot randomised controlled trial. The ENCLOSE Trial. ANZICS/ACCCN Intensive Care ASM Conference. 27-29 April 2022. Sydney, Australia.
11 May 2022	<b>Larsen E</b> . (Attendance, Online Event). Tips of submitting a conference abstract. Australasian College for Infection Prevention and Control (ACIPC).
21 May 2022	<b>Duff J</b> , Pillay R, Gao L. Interactively exploring identified research priorities: Exploring research priorities for Australian perioperative nursing care. Australian College of Perioperative Nurses (ACORN) Conference. Virtual Presentation.
12-15 May 2022	<b>Munday J</b> , Higgins N, Mathew S, Dalglish L, Batterbury A, <b>Coyer F</b> , et al. Optimal Perioperative Care: A Scoping Review of Nurse-Led Randomised Controlled Trials in the Perioperative Setting. European Operating Room Nurses Association (EORNA) 10th EORNA Congress, Winds of Change. Stavanger, Norway
15 June 2022	<b>Coyer F</b> . Consultant. Pressure Injury Treatment Group Final Meeting. 15 June 2022. Sydney, Australia.
17 June 2022	<b>Larsen E</b> . Let's get the conversation going! Developing an IV Passport to improve vascular access device planning and management. Cancer Nurses Society Australia (CNSA). Brisbane, Australia
June 2022	O Tronstad, L Caruana, I Pearse, <b>A Corley</b> . (Virtual Conference). Interruption Of Humidification When Delivering High Flow Oxygenation Is Associated With Significant And Prolonged Reduction Of Absolute Humidity. World Physiotherapy-AWP Regional Congress
21-25 July 2022	<b>Duff J</b> . Creating an evidence-based practice environment. 33 <sup>rd</sup> International Nursing Research Conference 2022. Edinburgh, Scotland
5-8 September 2022	<b>Marsh N</b> , <b>Larsen E</b> , <b>O'Brien C</b> , <b>Peach H</b> , Keogh S, Mihala G, Davies K, McCarthey A, Flynn J, Rickard C. Do different needleless connectors make a difference? A pilot randomised controlled trial comparing neutral and negative pressure needleless connectors. Herston Health Precinct Symposium. Royal Brisbane & Women's Hospital.
5-8 September 2022	<b>Marsh N</b> , <b>Larsen E</b> , <b>O'Brien C</b> , Groom P, Kleidon T, McCarthy K, Rickard C. Midline catheters versus peripherally inserted catheters for peripherally compatible intravenous therapies: A pilot randomised controlled trial. Herston Health Precinct Symposium. Brisbane, Australia.

<b>5-8 September 2022</b>	<b>Larsen E</b> , Rickard C, <b>Marsh N</b> , Fenn M, Paterson R, Ullman A, Chan R, Chopra V, Byrnes J. Patient reported outcome and experience measures among patients with central venous access devices: A systematic Review. Herston Health Precinct Symposium. Brisbane, Australia.
<b>5-8 September 2022</b>	<b>Larsen E</b> , <b>Marsh N</b> , Rickard C, Byrnes J. Health-related quality of life and experience measures to assess patients experiences of peripheral intravenous catheters: a secondary data analysis. Herston Health Precinct Symposium. Brisbane, Australia.
<b>5-8 September 2022</b>	<b>Corley A</b> , McGuinness N, Pearse I, Fraser J, Bartnikowski N. Tensile strength of extracorporeal membrane oxygenation (ECMO) cannula exposed to an alcohol-based solution. Can alcohol-based solutions be safely used at ECMO cannulation sites to improve infection outcomes? Herston Health Precinct Symposium. Brisbane, Australia.
<b>5-8 September 2022</b>	<b>Duff J</b> , Woollett K, Olsson L, Griffiths J, Carter A. Qualitative evaluation of a novel security role to reduce occupational violence in inpatient settings. Herston Health Precinct Symposium. Brisbane, Australia.
<b>5-8 September 2022</b>	Woodhouse B, <b>Marsh N</b> . Graduated compression stockings for Orthopaedic patients: a meta-analysis. Herston Health Precinct Symposium. Brisbane, Australia.
<b>5-8 September 2022</b>	McKenna L, <b>Marsh N</b> . High volume (aggressive hydration) intravenous infusion of lactated ringer's solution for adult ECRP patient: A systematic review and meta analysis. Herston Health Precinct Symposium. Brisbane, Australia
<b>13 October 2022</b>	<b>Marsh, N</b> . Developing a hospital based vascular access research group. 2022 Research Symposium, Caboolture and Kilcoy Hospitals and Woodford Corrections Health. Caboolture Hospital, Australia
<b>14 October 2022</b>	<b>Duff J</b> . Creating an Evidence-Based Practice Environment. 5 <sup>th</sup> China-Australia Nursing Forum. Virtual Presentation. China
<b>26-28 October 2022</b>	<b>Duff J, Munday J</b> . Learn strategies to support research candidates and early career researchers, grant writing skills. Perioperative Nursing Research Summit. Melany, Australia
<b>9 November 2022</b>	<b>Duff J</b> . Overcoming research barriers and addressing challenges for nurses and midwives. Inaugural Australasian Nursing and Midwifery Clinical Trials Network Summit. Adelaide, Australia
<b>13-16 November 2022</b>	<b>Marsh, N</b> . Evidence-led practice change: evaluating globally, acting locally. 2022 ACIPC International Conference. Sydney, Australia
<b>13-16 November 2022</b>	<b>Duff, J</b> . Updating practice based on new evidence. 2022 ACIPC International Conference. Sydney, Australia
<b>17-19 November 2022</b>	<b>Larsen, E</b> . Developing an IV Passport mHealth application to improve vascular device management. Intravenous Nursing New Zealand.
<b>17-19 November 2022</b>	<b>Marsh, N</b> . Midlines, PICCs and PVs – how do we choose? Results of two pilot randomised controlled trials. Intravenous Nursing New Zealand
<b>17-19 November 2022</b>	<b>Marsh, N</b> . Neutral versus negative pressure needleless connectors: is there really a difference? Results of a pilot randomised controlled trial. Intravenous Nursing New Zealand
<b>09 December 2022</b>	<b>Duff, J</b> . Translating research into practice in Queensland Health is everyone's responsibility. Allied Health – Translating Research into Practice (AH-TRIP) Showcase 2022. Brisbane