

# 2016

# RBWH

## Research Report

## Nursing & Midwifery



## Nursing and Midwifery

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**Adj. Assoc. Prof. Alanna Geary**  
Executive Director  
Nursing and Midwifery Services MNHHS

I am delighted to report a number of significant research outcomes for the year. During 2016 six nurses were chief investigators on successful RBWH Research Foundation project grants and many more were named as associate investigators. One of only three available postdoctoral fellowship grants was awarded to a nurse and a further five nurses received Scholarships to support their higher research degrees. These awards represent an enormous expansion and interest in research by nurses and midwives at the RBWH. The impact of nurse/midwifery led research was also evident in our publications record, which is outlined in the Research Centre report.

These outcomes are the reason that Nursing and Midwifery Services continues to support nurse and midwifery led research that focuses on improving patient care. It is perhaps because of this focus that our trials consistently meet our recruitment targets, whereas evidence from other publically funded trials show that approximately 70% of recruitment targets fail to be met. Barriers to recruitment may be at a patient, clinician or organisation level. Our nurse researchers have worked hard to establish a level of trust with patients, many of whom are repeat participants in our trials. Over the years, we have also gained enthusiastic support from nurses, midwives and other health care professionals, across all service lines for our clinical research. In addition, our dedicated project managers have expertise and the necessary endurance to negotiate organisational barriers in a timely manner. Our high completion success rate is underpinned by these factors.

Our commitment to research is demonstrated by the creation of new research positions. For example, in 2016 we began negotiations with Griffith University to establish a joint, Research Fellow in position in Vascular Access. The offer from Griffith University to partner with us was in recognition of our dedication to nurse and midwifery led research and our outstanding research record in this area. A focus on intravenous access devices and dressings not only benefits RBWH patients but also brings financial benefits to the organisation. For example, funding from our multiple NHMRC and other research grants has covered the costs of thousands of IV dressings that are tested in trials. In addition, our highly skilled research staff place hundreds of peripheral catheters each year. A peripheral catheter replacement has been costed at up to \$125 for supplies and clinician time, so savings to the organisation are significant.

We look forward to continuing our support of nursing and midwifery led research 2017.

## Nursing and Midwifery Research Centre



**Professor Joan Webster**  
Nursing Director, Research Centre

The primary aim of the Nursing and Midwifery Research Centre is to generate best evidence for acute healthcare practice. We achieve this through conducting interdisciplinary, independently funded clinical trials and cohort studies that focus on improving patient outcomes; and by producing Cochrane systematic reviews. We prioritise areas identified by the Australian Commission on Health Care Standards, such as 'Preventing and Controlling Health Care Infections' and Preventing and Managing Pressure Injuries. For example, during 2016, a number of pressure injury studies were undertaken in ICU, we also completed an NHMRC funded trial, a large cohort study and several pilot studies assessing the impact of intravascular access securement devices on the incidence of catheter-related infections. The pilot studies informed our 2017 NHMRC project grant applications. During 2016 we continued with our NHMRC funded trial testing the effectiveness of negative pressure wound therapy on surgical site infection, among other smaller trials. These studies and others demonstrate our emphasis on improving patient outcomes by focussing on clinically important questions, generated by problems in the delivery of acute health care. Our work in these areas, particularly in the area of intravenous access, continues to be internationally influential internationally.

In 2016, our new joint Professorial positions (Professor Fiona Coyer and Professor Theresa Green) provided a welcome expansion to our senior research team. Along with other honorary research positions, our combined track record demonstrates our strong group collaboration and provides evidence of our individual contributions to the overall output of the Nursing and Midwifery Research Centre's program of research. Our track record during 2016 continued to grow with staff from the unit involved in 11 successful research grants and 29 publications. We also have 15 active Cochrane reviews of health-care interventions, which are updated every two years. These outcomes could not be achieved without broad, interdisciplinary collaboration within our health service and across local, national and international institutions.

Our other focus is on the development of a research culture amongst nurses and midwives. This is achieved in a number of ways: 1) our highly skilled staff provide supervision for higher degree students; 2) nurses and midwives from clinical areas act as research nurses and, through such exposure, frequently go on to enrol in a higher degree; 3) we conduct a 12-week 'Evidence Base Practice' training program in which students complete a systematic review of a clinical problem, which is relevant to their area of practice. Many of these students go on to present their reviews at national conferences and a number have used the information from the review to change practice in their area; 4) each month we coordinate the 'Nursing and Midwifery Grand Rounds', in which results of research studies are presented; 5) we provide support, mentorship and expertise to assist novice researchers prepare research proposals and publications.

## Supervised Post-graduate Research Students

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Nicole Marsh	PhD Griffith University (2015 – 2018)	Prevention of peripheral venous catheter failure	Claire Rickard, <b>Joan Webster</b> , Marie Cooke
<b>Emily Larsen</b>	Graduate Diploma, Griffith University (2013-2016)	The patient experience of peripheral IV insertion within a tertiary hospital setting.	Samantha Keogh, Claire Rickard
<b>Julie Flynn</b>	PhD, Griffith University (2016-2018)	Decontamination of central venous catheter needleless connectors.	Claire Rickard, Li Zhang, Samantha Keogh
Hajar Alasmari	PhD, Queensland University of Technology (2012-2017)	Examining Intensive Care Nurses' Clinical decision-making associated with acute kidney injury and continuous renal replacement therapy in Saudi Arabia	Prof Ann Bonner, <b>Prof Fiona Coyer</b>
Sonia Hines	PhD, Queensland University of Technology	An educational intervention to improve nurses' research literacy	Prof Joe Ramsbotham, <b>Prof Fiona Coyer</b> , Dr Erika Hepple
Naomi Tutticci	PhD, Queensland University of Technology (2013-2017)	Critical reflection by undergraduate nursing students in a High Fidelity Simulation: student verses academic facilitated reflection	<b>Prof Fiona Coyer</b> , Dr Peter Lewis, Prof Mary Ryan
Elsbeth Dunstan	Master of Nursing, Queensland University of Technology	Safety culture in two Australian tertiary hospital intensive care units: The Scath-ICU study	<b>Prof Fiona Coyer</b>
Nahla Tayyib	PhD, Queensland University of Technology (2012-2016)	Use of an interventional patient skin integrity care bundle in the intensive care unit to best manage skin integrity in the critically ill patient	<b>Prof Fiona Coyer</b> , Dr Peter Lewis
Rebecca Rashleigh-Rolls	Masters of Applied Science (Research), Queensland University of Technology (2013-2016)	An investigation of infection control interventions and their impact on hospital acquired infection rates	<b>Prof Fiona Coyer</b> , Dr Katie Page
Sandra Johnston	PhD, Queensland University of Technology	Effectiveness of high fidelity simulation as a teaching tool in undergraduate nursing education	<b>Prof Fiona Coyer</b> , Prof Robyn Nash
Samantha Yeates	Masters of Applied Science (Research), Queensland University of Technology	Exploring tissue perfusion and healing trajectory of medical-device related pressure injuries	<b>Prof Fiona Coyer</b> , Kathleen Finlayson, Jill Campbell
<b>Lizanne Dalgleish</b>	Masters of Applied Science (Research), Queensland University of Technology	The role of microcirculatory dysfunction and skin breakdown in the critically ill.	<b>Prof Fiona Coyer</b>
Adrianna Hada	Masters of Applied Science (Research), Queensland University of Technology (2015-2017)	Transforming patient outcomes through improved and effective nursing clinical handover	<b>Prof Fiona Coyer</b> , Dr Leanne Jack
Paul Jarrett	Masters of Applied Science (Research), Queensland University of Technology (2015-2017)	Administration of antibiotics in the intensive care unit	<b>Prof Fiona Coyer</b> , Assoc Prof Martin Christensen, Prof Jason Roberts
Priscilla Pather	Masters of Applied Science (Research), Queensland University of Technology (2014-2017)	The incidence and measurement of incontinence associated dermatitis in the intensive care environment	<b>Prof Fiona Coyer</b> , Dr Leanne Jack
Hannah Rheault	Doctor Health Science, Queensland University of Technology (2014-2019)	Examining the health literacy and chronic disease self-management of remote Aboriginal Australians: A mixed method study	Prof Ann Bonner, <b>Prof Fiona Coyer</b>
Leanne Stone	Doctor Health Science, Queensland University of Technology (2014-2019)	Comparing "Magnet" attributes in nursing between Australia and the United States	Prof Alexandra McCarthy, <b>Prof Fiona Coyer</b>
<b>Bryan Gregory</b>	Masters of Applied Science (Research), Queensland University of Technology (2016-)	The effects of continuous renal replacement therapy and sustained low-efficiency dialysis on immunosuppressive drug levels in critically ill patients with acute kidney injury	<b>Prof Fiona Coyer</b> , Prof Jason Roberts, Prof Ann Bonner

Name (RBWH staff in bold)	Current Studies (e.g. PhD, Masters etc.)University (duration)	Research Project Title	Supervisors (RBWH staff in bold)
Jessica Ingleman	Masters of Applied Science (Research), Queensland University of Technology (2016-)	Exploring tissue reperfusion in two body positions and varied load periods in critically ill patients (EXTREME 2 pressure study)	<b>Prof Fiona Coyer</b> , Dr Christina Parker
<b>David McIntyre</b>	Masters of Applied Science (Research), Queensland University of Technology (2016-)	Developing and validating haemodialysis nurse-sensitive indicators	Prof Ann Bonner, <b>Prof Fiona Coyer</b>
<b>Cheryl Blaber</b>	Masters of Applied Science (Research), Queensland University of Technology	The assessment and management of pain and suffering in persons with cognitive impairment approaching the end of life as inpatients within an acute tertiary facility	Prof Theresa Green
Pauline Nicholas	Masters of Applied Science (Research), Queensland University of Technology	Using brain training to improve cognition of patients on dialysis	Prof Theresa Green
Hue Thi Hoang	Masters of Nursing		Prof Theresa Green
Tain Lloyd	MappSci, QUT (2016-2020)	Investigation of stroke development in chronic kidney disease	Prof Ann Bonner/ <b>Prof Theresa Green</b> / Dr Ian Stewart/Dr Colin Solomon
Lan Van Huong	Doctor of Philosophy	Exploring of family support for people receiving haemodialysis therapy in Vietnam	Prof Theresa Green

## Research Positions: Coordinators, Fellow, Adjunct and Honorary Positions

Name	Type of Fellowship	Research Program	University Affiliation (years)
Nicole Marsh	Senior Project Manager	Numerous IV access trials	Griffith University (2007 – present)
Emily Larsen	Project Manager	Numerous IV access trials	Griffith University (2012 – present)
Julie Flynn	Project Manager	Numerous IV access trials	Griffith University (2011 – present)
Claire Rickard	Honorary Research Fellow	Numerous IV access trials	Griffith University (2007 – present)
Marie Cooke	Honorary Research Fellow	Numerous IV access trials	Griffith University (2016 – present)
Amanda Ullman	Honorary Research Fellow	Numerous IV access trials	Griffith University (2014 – present)
Anne Bonner	Honorary Research Fellow	No current active projects with Nursing Services	QUT 2011 – present)
Brigid Gillespie	Honorary Research Fellow	The DRESSING trial	Griffith University (2007 – present)
Samantha Keogh	Honorary Research Fellow	Optimising PIVC patency through implementation of best flushing practice	Griffith University (2011 – present)
Caroline Shelverton	Honorary Research Fellow	STEP WEDGE trial	Griffith University (2016 – present)
Niall Higgins	Honorary Research Fellow	No current active projects with Nursing Services	QUT (2014 – present)
Carol Reid	Honorary Research Fellow	No current active projects with Nursing Services	Griffith University (2013 – present)
Debbie Anderson	Honorary Research Fellow	No current active projects with Nursing Services	Griffith University (2007 – present)
Gillian Ray-Barruel	Honorary Research Fellow	I-Decided: A clinical decision-making tool for intravenous catheter assessment and safe removal	Griffith University (2015 – present)
Pauline Calleja	Honorary Research Fellow	No current active projects with Nursing Services	Griffith University (2015 – present)
Carol Windsor	Honorary Research Fellow	No current active projects with Nursing Services	QUT (2016 – present)
Karen New	Honorary Research Fellow	No current active projects with Nursing Services	UQ (2014-present)
Monica Stankiewicz	Honorary Research Fellow	No current active projects with Nursing Services	Redcliffe Hospital (2014 – present)
Raymond Chan	Honorary Research Fellow	Nurse Navigator project	QUT/Metro North (2015 – present)
Sonya Osborne	Honorary Research Fellow	Nursing assessment project	QUT (2016 – present)
Kimberly Alexander	Honorary Research Fellow	No current active projects with Nursing Services	QUT (2015 – present)
Karen Ousey	Adjunct Associate Professor	Skin perfusion and microcirculation in critically ill patients	QUT (2015-2017)

## Current Research Group / Department Led Research Activity

Research Group / Department Lead Researchers	Collaborative Researchers	Research Project Title
<b>Nicole Marsh</b> (Nursing and Midwifery Research Centre)	<b>Joan Webster</b> , Claire Rickard, Marie Cooke	REplacing Peripheral IntraVenous Catheters (REPLACE study)
<b>Nicole Marsh</b> (Nursing and Midwifery Research Centre)	<b>Joan Webster</b> , Claire Rickard, Marie Cooke	RELIable Intravenous Access By Line Experts (RELIABLE Trial)
<b>Emily Larsen</b> (Nursing and Midwifery Research Centre)	<b>Nicole Marsh, Nicole Gavin, Julie Flynn, Joan Webster</b>	CANCer caRE: The risk factors of vEnous access failuRE (CARETaKER Study)
<b>Joan Webster</b> (Nursing and Midwifery Research Centre)	<b>Larsen E, Marsh N, Md Abu Choudhury Md Abu, Rickard C.</b>	Chlorhexidine gluconate or polyhexamethylene biguanide disc dressing to reduce the incidence of Central-Line-Associated Blood Stream Infection: a feasibility randomised controlled trial (the CLABSI trial)
<b>Joan Webster</b> (Nursing and Midwifery Research Centre)	<b>Northfield S, Marsh N, Larsen E, Rickard CM, Chan R</b>	Inter-rater agreement of peripherally inserted central catheter insertion site condition between nurses and patients using the PICC-SAT
<b>Joan Webster</b> (Nursing and Midwifery Research Centre)	<b>Larsen E, Booker C, Laws J, Marsh N.</b>	Prophylactic insertion of large bore peripheral intravenous catheters in maternity patients: A cohort study
<b>Emily Larsen</b> (Nursing and Midwifery Research Centre)	<b>Marsh N, Rickard C, Keogh S.</b>	The patient experience of peripheral IV insertion within a tertiary hospital setting: The PINch study
<b>Julie Flynn</b> (Nursing & Midwifery Research Centre)	<b>Rickard C, Keogh S, Zhang L.</b>	Decontamination of central venous catheter needleless connectors: A pilot RCT.
<b>Prof Theresa Green</b> <b>Ms Tara Hormann</b> (Stroke)	Dr Tony Parker (QUT) Dr Jonathon Peake (QUT) A/Prof Gregory Bix (USA)	Characteristics of physical activity required to elevate circulating neuroprotective LG3 peptide as a novel stroke therapy.
<b>Fiona Coyer</b> <b>Amanda Vann</b> (CNC, ICU)	Nick Santamaria (Uni of Melbourne) Jane-Louise Cook (QUT) Nicola Barker-Gregory (NUM, ICU Redcliffe Hospital)	Efficacy of nasogastric and endotracheal tube securement devices, preventative dressings and topical skin applications for reducing device-related pressure injuries in intensive care patients; the REMEDy study, a randomised controlled trial.
<b>Fiona Coyer</b> <b>Anthony Holley</b> (Intensive Care Medicine) <b>Peter Thomas</b> (Physiotherapy)	Christina Parker (QUT) Anna Doubrovsky (QUT) Chris Edwards (QUT) Jessica Ingleman (QUT)	The effect of time spent in a position on critically ill patient's skin: the EXTREME pressure 2 study.
<b>Fiona Coyer</b> <b>Jill Campbell</b> (Skin Integrity Service) <b>Amanda Vann</b> (Intensive Care Medicine) <b>Greg McNamara</b> (Intensive Care Medicine)	Jane-Louise Cook (QUT)	Translating evidenced-based pressure injury prevention into the intensive care environment; the SUSTAIN study.
<b>Fiona Coyer</b> <b>Jill Campbell</b> (Skin Integrity Service)		Efficacy of incontinence-associated dermatitis interventions for critically ill patients in intensive care; the Distinct pilot randomised control trial
<b>Fiona Coyer</b> Robyn Fox (Nurse Education)	Alexandra McCarthy (QUT) Amanda Henderson (GU) Ramon Shaban (GU) Karen Theobald (QUT) Bernadette Thompson (PAH)	Academic-industry integration in health: Enhancing postgraduate professional learning.
<b>Fiona Coyer</b> Peter Slattery (Biomedical Engineering) Peter Thomas (Physiotherapy) Greg McNamara (Intensive Care Medicine)	Chris Edwards (QUT) Jessica Ingleman (QUT)	Extreme pressure study: exploring pressures, tissue reperfusion and body positioning – a pilot evaluation among critically ill patients

## Collaborative Research Activity

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Claire Rickard, <b>Joan Webster</b> , Raymond Chan, Peter Mollee, Geoffrey Playford, Li Zhang, Samantha Keogh, Evan Alexandrou, Marie Cooke, Alexandra McCarthy, Patricia Klieidon.	Joan Webster (Nursing and Midwifery Research Centre)	Peripherally InSerted Central catheter dressing and Securement: (the PISCES Trial)
Brigid Gillespie, Wendy Chaboyer, <b>Joan Webster</b> , David Ellwood, Jennifer Whitty, Luckman Thalib, Nicky Cullum.	Joan Webster (Nursing and Midwifery Research Centre)	Adding negative pRESSure to improve healing: The DRESSING Trial
Claire Rickard, Janine Young, John Gowardman, David McMillan, Li Zhang <b>Joan Webster</b> , Geoffrey Playford	Joan Webster (Nursing and Midwifery Research Centre)	Intravascular device administration sets: Replacement after Standard Versus Prolonged use: The RSVP Trial
Claire Rickard, John Fraser, <b>Joan Webster</b> , Wendy Chaboyer, Geoffrey Playford, David McMillan, Matthew McGrail, John Gowardman, Ogilvie Thom, Kimble Dunster, Jeanine Young, Julia Crilly.	Joan Webster (Nursing and Midwifery Research Centre)	Securing Arterial and Venous Devices Effectively in Hospitals: The SAVE Trial.
Nancy Moureau, <b>Nicole Marsh</b> , Li Zhang, Marie Cooke, John Fraser, Claire Rickard.	Nicole Marsh (Nursing and Midwifery Research Centre)	Evaluation of Skin Colonisaiton and Placement of Effective Catheter Exit Sites: The ESCAPE Study.
Maria Castillo, Claire Rickard, <b>Nicole Marsh</b> , Peter Carr, Gavin Jackson, Li Zhang, Marie Cooke, Marianne Wallis, Rachel Walker	Nicole Marsh (Nursing and Midwifery Research Centre)	Integrated versus nOn-integrated Peripheral inTravenous catheter. Which Is the most clinical and cost-effective systeM for peripheral intravenoUs catheter Management? The OPTIMUM Trial
Claire Rickard, <b>Nicole Marsh</b> , Amanda Ullman, Patricia Klieidon, Deborah Long, Marion Mitchell.	Nicole Marsh (Nursing and Midwifery Research Centre)	Secure My Intravascular Line Effectively (SMILE): randomised controlled trials to improve the securement of peripheral intravenous and arterial catheters
Claire Rickard, Amanda Ullman, <b>Nicole Marsh</b> , Patricia Klieidon, <b>Emily Larsen</b> , Victoria Gibson, Gabor Mihala, <b>Nicole Gavin</b> , Jason Schoutrop, Brett Chaseling	Nicole Marsh (Nursing and Midwifery Research Centre) Emily Larsen (Nursing and Midwifery Research Centre)	SurgiSeal® to achieve haemoStasis in peripherally Inserted Central Catheters. The STICC trial.
Patricia Klieidon, Nicole Gavin, Amanda Ullman, Li Zhang, Victoria Gibson, Gabor Mihala, Jason Schoutrop, Brett Chaseling, Claire Rickard, <b>Trent Atkinson</b> , <b>Katrina Southam</b> , Naomi Runnegar, <b>Nicole Marsh</b> , <b>Emily Larsen</b> , <b>Julie Flynn</b> .	Nicole Marsh (Nursing and Midwifery Research Centre) Emily Larsen (Nursing and Midwifery Research Centre) Julie Flynn (Nursing and Midwifery Research Centre)	Peripherally Inserted Central Catheter OutcoMes PolyurethAne veRsus Endexo: PIC COMPARE Pilot Randomised Controlled Trial.
Samantha Keogh, Caroline Shelverton, <b>Julie Flynn</b> , <b>Karen Davies</b> , <b>Nicole Marsh</b> , Claire Rickard.	Julie Flynn (Nursing and Midwifery Research Centre) Karen Davies (Nursing and Midwifery Research Centre) Nicole Marsh (Nursing and Midwifery Research Centre)	An observational study of Nurses' intravenous flush and medication practice in the clinical setting.
Samantha Keogh, Caroline Shelverton, <b>Julie Flynn</b> , <b>Gabor Mihala</b> , <b>Karen Davies</b> , <b>Nicole Marsh</b> , Claire Rickard.	Julie Flynn (Nursing and Midwifery Research Centre) Karen Davies (Nursing and Midwifery Research Centre) Nicole Marsh (Nursing and Midwifery Research Centre)	Implementation and evaluation of PIVC flushing guidelines: A Stepped Wedge Cluster Randomised Trial

Collaborative Lead Researchers (RBWH staff in bold)	Your Research Group / Department Researchers	Research Project Title
Alison Mudge	Adrian Barnett (PAH) Merrilyn Banks (RBWH) Ruth Hubbard (PAH) Prof Nick Graves (QUT) Dr Nancye Peel (UQ) Assoc Prof Kwang Lim (Uni of Melbourne) Dr Irene Blackberry (La Trobe Uni) <b>Prof Theresa Green (QUT/RBWH)</b> Prue McRae (UQ) Jessica Suna (RBWH)	Collaborative for Hospitalised Elders: Reducing the Impact of Stays in Hospital
Rohan Grimley (Nambour Hospital)	<b>Prof Theresa Green (QUT/RBWH)</b> Ingrid Rosbergen (RBWH) Dr Suzanne Keys Dr Louise Gustafsson Dr Eleanor Horton Dr Benjamin Chen (Gold Coast Hospital) Greg Cadigan (Health Improvement Unit)	Building efficient and equitable pathways to and through rehabilitation in stroke
Neha Kumta (UQ)	<b>Prof Fiona Coyer (RBWH/QUT)</b> Lizanne Dalglish (QUT)	Audit of peri-operative factors associated with pressure injury development in post-surgical ICU patients – (PREDICT)
Anna Grant (RBWH)	<b>Prof Fiona Coyer (RBWH/QUT)</b>	Contextual barriers and facilitators to research utilisation and evidence based practice in intensive care – The COFACTOR Study
Veeranjit Singh (RBWH)	<b>Prof Fiona Coyer (RBWH/QUT)</b> Johnathan Collins (UQ)	Audit of pressure injury development in critically ill patients with C-spine precautions – (InSPECT)
Clint Douglas (QUT), Sonya Osborne (QUT), Carol Windsor (QUT), <b>Robyn Fox (Workforce Development &amp; Education Unit), Catriona Booker (Workforce Development &amp; Education Unit), Alanna Geary (EDNMS), Glenn Gardner (QUT)</b>	Robyn Fox (Workforce Development & Education Unit), Catriona Booker (Workforce Development & Education Unit), Alanna Geary (EDNMS) Nursing and Midwifery Services Research Group.	Enhancing Nursing Core Assessment in Acute Hospitals: The ENCORE Pilot Study (HREC/16/QRBW/284)
Jennifer Paratz (GU) Comans T (GU) Geoff Mitchell (UQ)	Robert Boots (Intensive Care Services) Fiona Coyer (Intensive Care Services) Peter Thomas (Physiotherapy)	Improving outcome in sepsis

## Research Grants – Awarded

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Paterson D, Rickard C, McMillan D, Choudry N, <b>Gavin N</b> , Banu S, <b>Webster J</b> .	<b>Nicole Gavin</b> (Cancer Care Services) <b>Joan Webster</b> (Nursing & Midwifery Research Centre)	emergeNce of Antibacterial resistance associated with the use of antimicrobial impregnated dressings (the RACE Study).	RBWH Foundation	\$40,000	\$40,000 (2016)
<b>Webster J</b> , Marsh N, Larsen E, <b>Gavin N</b> , Choudry N.	<b>Joan Webster</b> , <b>Nicole Marsh</b> , <b>Emily Larsen</b> (Nursing & Midwifery Research Centre) <b>Nicole Gavin</b> (Cancer Care Services)	Biopatch™ or Kendall™ AMD Foam Disc® to reduce the incidence of Central-Line-Associated Blood Stream Infection: A randomized controlled trial (the CLABSI trial)	RBWH Foundation	\$39,152	\$39,152 (2016)
Rickard C, <b>Webster J</b> , Chan R, Mollee P, Playford G, Zhang L, Hallahan A, Alexandrou E.	<b>Joan Webster</b> (Nursing & Midwifery Research Centre)	Peripherally Inserted Central catheter Securement: the PISCES Trial.	NHMRC	\$199,000	\$1,198,006 (2016 – 2018)
Brigid Gillespie, Wendy Chaboyer, <b>Joan Webster</b> , David Ellwood, Jennifer Whitty, Luckman Thalib, Nicky Cullum.	<b>Joan Webster</b> (Nursing & Midwifery Research Centre)	Adding negative pressure to improve healing: The DRESSING Trial	NHMRC	\$427,737	\$2,285,351.30. (2015 - 2019)

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
Rickard C, Fraser J, <b>Webster J</b> , Marshall A, Young J, Playford EG, McMillan D, McGrail m, Gowardman J, Thom O.	<b>Joan Webster</b> (Nursing & Midwifery Research Centre)	Securing Arterial and Venous peripheral devices Effectively in hospitals: The SAVE Trial NHMRC	NHMRC	\$35 000	\$969,024 (2013 - 2016)
Maria Castillo, Claire Rickard, <b>Nicole Marsh</b> , Tania Clark, Peter Carr, Gavin Jackson, Li Zhang, Marie Cooke, Marianne Wallis.	<b>Nicole Marsh</b> (Nursing & Midwifery Research Centre)	Integrated versus nOn-integrated Peripheral inTravenous catheter. Which Is the most clinical and cost-effective systeM for peripheral intravenoUs catheter Management? The OPTIMUM Trial	Becton, Dickinson and Company	\$496,384	\$661,846 (2016-2017)
Claire Rickard, Amanda Ullman, <b>Nicole Marsh</b> , Patricia Kleidon, Gabor Mihala, Nicole Gavin, Jason Schoutrop, Brett Chaseling	<b>Nicole Marsh</b> (Nursing & Midwifery Research Centre)	SurgiSeal® to achieve haemoStasis in peripherally Inserted Central Catheters. The STICC trial.	Adhezion Biomedical LLC	\$199,673	\$199,673 (2016)
Claire Rickard, <b>Nicole Marsh</b> , Amanda Ullman, Patricia Kleidon, Deborah Long, Marion Mitchell.	<b>Nicole Marsh</b> (Nursing & Midwifery Research Centre)	Secure My Intravascular Line Effectively (SMILE): randomised controlled trials to improve the securement of peripheral intravenous and arterial catheters	Centurion Medical Products	\$275,000 (2016)	\$275,000 (2016)
<b>Julie Flynn</b> , Samantha Keogh, Li Zhang, Claire Rickard	Julie Flynn (Nursing & Midwifery Research Centre)	Evaluating current methods for effective decontamination of needleless connectors: A pilot randomised control trial	Cancer Nurses Society of Australia	\$5,500.00	\$5,500.00 (2016)
<b>Prof Theresa Green</b> <b>Ms Tara Hormann</b> (Stroke) Dr Tony Parker (QUT) Dr Jonathon Peake (QUT) A/Prof Gregory Bix (USA)	Department of Internal Medicine	Characteristics of physical activity required to elevate circulating neuroprotective LG3 peptide as a novel stroke therapy.	RBWH Foundation	\$40,000	\$40,000
Rohan Grimley, Ingrid Rosbergen, Suzanne Kuys, Louise Gustafsson, Eleanor Horton, Benjamin Chen, <b>Theresa Green</b> , Greg Cadigan	Intensive Care Medicine, Neurology	Building efficient and equitable pathways to and through rehabilitation in stroke	Healthcare Improvement Unit, Queensland Department of Health through the Statewide Stroke and Rehabilitation Clinical Networks	\$80,000	\$320,000 (2016-2018)
<b>Fiona Coyer</b> Robyn Fox (Nurse Education), Alexandra McCarthy (QUT) Amanda Henderson (GU) Ramon Shaban (GU) Karen Theobald (QUT) Bernadette Thompson (PAH)	Intensive Care Services	Academic-industry integration in health: Enhancing postgraduate professional learning.	Covidien	\$15,000	\$15,000 (2016)
<b>Fiona Coyer</b> <b>Amanda Vann</b> (CNC, ICU) Nick Santamaria (Uni of Melbourne) Jane-Louise Cook (QUT) Nicola Barker-Gregory (NUM, ICU Redcliffe Hospital)	Intensive Care Services	Efficacy of nasogastric and endotracheal tube securement devices, preventative dressings and topical skin applications for reducing device-related pressure injuries in intensive care patients; the REMEDy study, a randomised controlled trial.	Wound Management Innovation Centre for Research Collaboration	\$74,750	\$299,000 (2015-2018)

Investigators (RBWH staff in bold)	RBWH Research Groups / Departments	Project Title	Granting Body	Amount in 2016	Total Amount (years)
<b>Fiona Coyer</b> <b>Jill Campbell</b> (Skin Integrity Service)	Intensive Care Services	Efficacy of incontinence- associated dermatitis interventions for critically ill patients in intensive care; the Distinct pilot randomised control trial	3M	\$79,281	\$158,562 (2016-2017)
Clint Douglas (QUT), Sonya Osborne (QUT), Carol Windsor (QUT), <b>Robyn Fox (Workforce Development &amp; Education Unit)</b> , <b>Catriona Booker (Workforce Development &amp; Education Unit)</b> , <b>Alanna Geary (EDNMS)</b> , Glenn Gardner (QUT)	Nursing and Midwifery Services Research Group	Enhancing Nursing Core Assessment in Acute Hospitals: The ENCORE Pilot Study (HREC/16/QRBW/284)	Institute of Health and Biomedical Innovation, Mid-Career Researcher Development Scheme	\$28,000	\$28,000 (2016-2017)

## 2016 Research Publications

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	Chaboyer W, Bucknall T, <b>Webster J</b> , McInnes E, Gillespie B, <b>Banks M</b> et al The effect of a patient centred care bundle intervention on pressure ulcer incidence (INTACT): a cluster randomised trial. <i>Int J Nurs Stud.</i> 2016;64:63-71
Journal article	<b>Banks M, Ross L, Webster J, Mudge A, Stankiewicz M</b> et. al. Does Treatment with an Intensive Nutrition Intervention Improve Pressure Ulcer Healing Compared to Standard Care in an Acute Hospital Setting? A Pilot Randomized Controlled Study <i>J Wound Care.</i> 2016 Jul 2;25(7):384-92
Journal article	<b>Stankiewicz M, Webster J, Coyer F.</b> An education program for pressure injury recognition and assessment utilising constructivism teaching method. <i>Wound Practice and Research</i> 2016;24 (2):100-107
Journal article	<b>Chan RJ, Webster J, Bowers A.</b> End-of-life care pathways for improving outcomes in caring for the dying. <i>Cochrane Database Syst Rev.</i> 2016; Issue 2
Journal article	<b>Gavin N, Webster J, Chan R, Rickard C</b> Frequency of dressing changes for central venous catheters on catheter related infections. <i>Cochrane Database of Systematic Reviews</i> 2016, Issue 2:
Journal article	Gillespie BM, <b>Webster J</b> , Ellwood D, Stapleton H, Whitty JA, Thalib L et al ADding negative pRESSure to improve healing (the DRESSING trial): A RCT Protocol. <i>BMJ Open</i> 2016 Feb 1;6(2):e010287
Journal article	<b>Webster J</b> , New K, <b>Fenn M, Batch M, Eastgate A</b> , Webber S, <b>Nesbit A</b> Impact of frequent <u>P</u> atient moves on patient outcomes in a large <u>T</u> ertiary <u>H</u> ospital: The PATH Study. <i>Aust Health Rev.</i> 2016; 40:324-329.
Journal article	Tuttici N, <b>Coyer F</b> , Lewis P, Ryan M. High fidelity simulation: Descriptive analysis of student learning styles. <i>Clinical Simulation in Nursing.</i> 2016;12(11):511-521.
Journal article	Campbell J, Gosley S, Coleman K, <b>Coyer F.</b> Combining pressure injury and incontinence-associated dermatitis prevalence surveys: An effective protocol? <i>Wound Practice and Research.</i> 2016;24(3):170-77.
Journal article	Ullman A, Keogh S, <b>Coyer F</b> , Long D, New K, Rickard C. 'True Blood' The Critical Care Story: An audit of blood sampling practice across adult, paediatric and neonatal intensive care settings. <i>Australian Critical Care.</i> 2016;29(2):90095. Doi: <a href="http://dx.doi.org/10.1016/j.aucc.2015.06.002">http://dx.doi.org/10.1016/j.aucc.2015.06.002</a>
Journal article	Tayyib N, <b>Coyer F.</b> Effectiveness of Pressure Ulcer Prevention Strategies for Adult Patients in Intensive Care Units: A Systematic Review. <i>Worldviews Evid Based Nurs.</i> 2016 Dec;13(6):432-444
Journal article	Mitchell ML, <b>Coyer F</b> , Kean S, Stone R, Murfield J, Dwan T. Patient, family-centred care interventions within the adult ICU setting: An integrative review. <i>Aust Crit Care.</i> 2016 Nov;29(4):179-193
Journal article	Tayyib N, <b>Coyer F</b> , Lewis PA. Implementing a pressure ulcer prevention bundle in an adult intensive care. <i>Intensive Crit Care Nurs.</i> 2016 Dec;37:27-36.
Journal article	Hines S, Ramsbotham J, <b>Coyer F.</b> Interventions for improving the research literacy of nurses: a systematic review. <i>JBI Database System Rev Implement Rep.</i> 2016 Feb;14(2):256-94.
Journal article	Kynoch K, Chang A, <b>Coyer F</b> , McArdle A. The effectiveness of interventions to meet family needs of critically ill patients in an adult intensive care unit: a systematic review update. <i>JBI Database System Rev Implement Rep.</i> 2016 Mar;14(3):181-234.
Journal article	Tayyib N, <b>Coyer F.</b> Effectiveness of pressure ulcer prevention strategies for adult patients in intensive care units: a systematic review protocol. <i>JBI Database System Rev Implement Rep.</i> 2016 Mar;14(3):35-44.

Type (Journal article / Book / Book chapter / Letter)	Publication information (RBWH staff in bold)
Journal article	<b>Campbell JL, Coyer FM, Mudge AM</b> , Robertson IM, Osborne SR. Candida albicans colonisation, continence status and incontinence-associated dermatitis in the acute care setting: a pilot study. <i>Int Wound J</i> . 2016 Aug 1. doi: 10.1111/iwj.12630. [Epub ahead of print]
Journal article	Tayyib N, <b>Coyer F</b> , Lewis P. Pressure Injury Prevention in a Saudi Arabian Intensive Care Unit: Registered Nurse Attitudes Toward Prevention Strategies and Perceived Facilitators and Barriers to Evidence Implementation. <i>J Wound Ostomy Continence Nurs</i> . 2016 Jul-Aug;43(4):369-74
Journal article	Gardner A, Gardner G, <b>Coyer F</b> , Gosby H. Educating for health service reform: clinical learning, governance and capability – a case study protocol. <i>BMC Nurs</i> . 2016 May 27;15:32
Journal article	Tutticci N, Lewis PA, <b>Coyer F</b> . Measuring third year undergraduate nursing students' reflective thinking skills and critical reflection self-efficacy following high fidelity simulation: A pilot study. <i>Nurse Educ Pract</i> . 2016 May;18:52-9.
Journal article	Ranse K, Yates P, <b>Coyer F</b> . Modelling end-of-life care practices: Factors associated with critical care nurse engagement in care provision. <i>Intensive Crit Care Nurs</i> . 2016;33:48-55.
Journal article	Ranse K, Yates P, <b>Coyer F</b> . End-of-life care practices of critical care nurses: A national cross-sectional survey. <i>Australian Critical Care</i> . 2016;29(2):83-89.
Journal article	Tayyib N, <b>Coyer F</b> , Lewis P. Saudi Arabian adult intensive care unit pressure ulcer incidence and risk factors: a prospective cohort study. <i>International Wound Journal</i> . 2016;13(5):912-19.
Journal article	Campbell J, <b>Coyer F</b> , Osborne S. Incontinence-associated dermatitis: A cross-sectional prevalence study in the Australian acute care hospital setting. <i>International Wound Journal</i> . 2016;13(3): 403-411. doi 10.1111/iwj.12322 (IF 2.023).
Journal article	Campbell JL, <b>Coyer FM</b> , Osborne SR. The Skin Safety Model: Reconceptualizing Skin Vulnerability in Older Patients. <i>J Nurs Scholarsh</i> . 2016 Jan;48(1):14-22.
Journal article	Rickard CM, Edwards M, Spooner AJ, Mihala G, <b>Marsh N</b> , Best J, Wendt T, Rapchuk I, Gabriel S, Thomson B, Corley A, Fraser JF. A 4-arm randomized controlled pilot trial of innovative solutions for jugular central venous access device securement in 221 cardiac surgical patients. <i>J Crit Care</i> . 2016 Dec;36:35-42.
Journal article	Keogh S, <b>Flynn J, Marsh N</b> , Mihala G, Davies K, Rickard CM. Varied flushing frequency and volume to prevent peripheral intravenous catheter failure: a pilot, factorial randomised controlled trial in adult medical-surgical hospital patients. <i>Trials</i> . 2016 Jul 26;17(1):348.
Journal article	Choudhury MA, <b>Marsh N</b> , Banu S, <b>Paterson DL</b> , Rickard CM, McMillan DJ. Molecular Comparison of Bacterial Communities on Peripheral Intravenous Catheters and Matched Skin Swabs. <i>PLoS One</i> . 2016 Jan 5;11(1):e0146354. doi: 10.1371/journal.pone.0146354. eCollection 2016.
Journal article	Lutz BJ, <b>Green T</b> . Nursing's Role in Addressing Palliative Care Needs of Stroke Patients. <i>Stroke</i> . 2016 Dec;47(12):e263-e265.
Journal article	Vaid P, <b>Green T</b> , Shinkaruk K, King-Shier K. Low-Dose Ketamine Infusions for Highly Opioid-Tolerant Adults Following Spinal Surgery: A Retrospective Before-and-after Study. <i>Pain Manag Nurs</i> . 2016 Apr;17(2):150-8.
Journal article	Douglas, C., <b>Booker, C., Fox, R.</b> , Windsor, C., Osborne, S., & Gardner, G. (2016). Nursing physical assessment for patient safety in general wards: Reaching consensus on core skills. <i>Journal of Clinical Nursing</i> , 25(13-14), 1890-1900. doi: 10.1111/jocn.13201
Journal article	Douglas, C., Osborne, S., Windsor, C., <b>Fox, R., Booker, C.</b> , Jones, L., & Gardner, G. (2016). Nursing and medical perceptions of a hospital rapid response system: New process but same old game? <i>Journal of Nursing Care Quality</i> , 31(2), E1-E10. doi: 10.1097/NCQ.0000000000000139

## 2016 Conference Presentations – Invited Speaker, Oral and Poster

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	<b>Webster J</b> , Marsh N, Larsen E, Choudhury M, Gavin N, Booker C, Paterson D Biopatch™ or Kendall™ AMD Foam Disc to reduce the incidence of Central-Line-Associated Blood Stream Infection: A feasibility study. Australasian College for Infection Control and Prevention Conference, Melbourne, Nov 2016
Poster	<b>Webster J</b> , Rickard C, Paterson D, Healy H, Lipman J, Esterman A, Chopra V, Cullum N, Zhang L, Mc Carthy A. Dressing Interventions for Safer Central line Outcomes (DISCO Trial). Australasian College for Infection Control and Prevention Conference, Melbourne, Nov 2016

Type (Oral / Poster / Invited)	Presentation information (RBWH staff in bold)
Oral	Chaboyer, W., Bucknall, T., <b>Webster, J.</b> , McInnes, E., Gillespie, B., Banks, M., Whitty, J., Thalib, L., Cullum, N. & Wallis, M. The effect of a patient centred pressure injury prevention care bundle on pressure injury incidence (INTACT): A cluster randomised trial. Wounds Australia National Conference. Melbourne. 9-12 November, 2016.
Oral and poster	<b>Coyer F.</b> A hole lot of trouble: a device-related tracheostomy pressure injury case study. The Inaugural Wounds Australia Conference (AWMA). Melbourne, November 2016
Oral	<b>Coyer F.</b> , Clark M, Slattery P, Thomas P, McNamara G, Khatun M, Edwards C, Ingleman J, Stephenson J, Ousey K. Exploring pressure and body positioning: A pilot evaluation among critically ill patients. 5th Congress of World Union of Wound Healing Societies. Florence, Italy, September 2016
Oral	Gardner A, Gardner G, Helms C, Gosby H, <b>Coyer F.</b> , Cheng H. Clinical learning, governance and capability. 9th International Council of Nurses (ICN) International Nurse Practitioner/Advanced Practice Nursing Network (INP/APNN) Conference. Hong Kong, September 2016
Poster	Stone L, McCarthy A, <b>Coyer F.</b> The CONTRAST Research Program: Aligning Magnet Attributes in Australia and the United States. 2016 ANCC National Magnet Conference. Orlando, Florida, USA, October 2016
Invited	<b>Coyer F.</b> Pressure injuries in the critically ill patients – a never ending story? World Federation of Critical Care Nurses Congress. Brisbane, Australia, April 2016
Invited	<b>Coyer F.</b> Implementing skin integrity rounds in the intensive care unit. World Federation of Critical Care Nurses Congress. Brisbane, Australia, April 2016
Oral	Tuttici N. (PhD candidate <b>Coyer F</b> Principal supervisor). Measuring third year undergraduate nursing students' reflective thinking skills and critical reflection self-efficacy following high fidelity simulation. Hawaii International Conference on Education. Honolulu, Hawaii, USA, January 2016
Oral/Poster	<b>Green T.</b> , Qi J*, Harwood D, Chou S. Estimating body weight for tPA administration: a review of the literature. Asian Pacific Stroke Conference. Brisbane AUS, July 2016
Poster	<b>Green T.</b> , Fisher O*, Harwood D, Chou S. Oral health care for stroke patients: a review of models of acute inpatient oral care. European Stroke Organization Conference. Barcelona Spain, May 2016
Oral	<b>Green T.</b> Palliative care for stroke survivors. International Stroke Conference. Los Angeles CA, Feb 2016
Poster	<b>Marsh, N.</b> , Webster, J., <b>Larsen, E.</b> , Cooke, M., Mihala, G., Rickard, C. 2016. Identifying risk factors for peripheral intravenous catheter failure from a prospective cohort study of 1000 patients. World Congress of Vascular Access.
Oral	<b>Larsen, E.</b> Gavin, N. <b>Marsh, N.</b> Webster, J. 2016. Independent review team versus standard infection preventionist for CLABSI diagnosis: a systematic review of diagnostic error. Australasian College of Infection Prevention and Control.
Poster	<b>Larsen, E.</b> Gavin, N. <b>Marsh, N.</b> Webster, J. 2016. Independent review team versus standard infection preventionist for CLABSI diagnosis: a systematic review of diagnostic error. World Congress of Vascular Access.
Invited speaker	<b>Marsh N</b> Evaluation of skin colonization and placement of catheter exit sites. Association for Vascular Access (AVA) Conference 2016, Florida
Oral	<b>Marsh N</b> Peripheral Venous Catheter Securement: a multi-centre randomised controlled trial. World Congress Vascular Access (WoCoVA) 2016, Lisbon
Poster	<b>Larsen, E.</b> Keogh, S. Richard, C. 2016. Medical and surgical patients' experiences of peripheral IV insertion: a qualitative study. World Congress of Vascular Access.
Poster	Northfield, S., Gavin, N., <b>Larsen, E.</b> , Mihala, G., <b>Marsh N.</b> 2016. Developing a Cancer Care CVAD Registry. Royal Brisbane and Women's Hospital Healthcare Symposium.

## Research Publications / Presentations Summary Table

Research Group / Department	Publications		Presentations National and International	
	Journal Articles	Books and Chapters	Oral	Poster
<b>Nursing and Midwifery Research Centre</b>	12	0	5	5
<b>Intensive Care Services</b>	17	0	6	2
<b>Internal Medicine Services</b>	4	1	4	4