

2021

RBWH Research Report

NURSING
AND
MIDWIFERY
SERVICES

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Nursing & Midwifery Services



Andy Carter
Director
Nursing and Midwifery Services

Nursing and Midwifery Services has a rich history of advancing clinical practice through innovative and impactful research. We are committed to ensuring this work is always consumer-focussed and of the highest priority to frontline nurses and midwives. We continue to strengthen and grow, with an amazing network of researchers covering a breadth of clinical expertise and research methodologies.

Translating research into improved patient outcomes continues to be of the highest priority at the RBWH. Our expanding team reflects this with the recent appointment of Dr Judy Munday to Nursing and Midwifery Services. Judy is Senior Research Fellow with a joint appointment with QUT. Her program of research focusses on Implementation Science in Surgical and Perioperative Services.

This year has proved to be another successful year for nursing and midwifery-led research. We ended the year with a staggering 49 publications, having been awarded \$2,197,032.30 in research funding for 2021. A highlight this year was a Lancet publication, 'the RSVP Trial.' This paper reported on the results of a NHMRC-funded study exploring the frequency of administration set changes for arterial and central devices, with over 2900 patients recruited in 10 Australian hospitals - congratulations to Professor Nicole Marsh, Emily Larsen and Dr Amanda Corley.

I would also like to commend Professor Fiona Coyer, whose work in maintaining skin health and integrity among clinicians wearing PPE for prolonged periods during the COVID19 pandemic was acknowledged at the 2021 Wound National Conference, as Winner for best original research article.

While our research has a strong focus on consumer needs and improved outcomes, the health and wellbeing of our staff also continues to be of the highest priority. Professor Jed Duff's work has provided evidence of the economic and clinical benefits of the 'Ambassador Program.' This innovative program was developed to support clinical staff de-escalate and prevent occupational violence in the workplace.

I am very proud of our ongoing commitment to high-quality research and would like to extend my sincere thanks and congratulations all the of the Nursing and Midwifery researchers for their efforts in 2021. Despite the challenges posed by the COVID19 pandemic, you have had outstanding outcomes and I look forward to what you accomplish in 2022.

Nursing & Midwifery Research Centre



(Left to right starting at the back)

**Sharon Ireland, Prof Jed Duff, Prof Samantha Keogh, Catherine O'Brien, Luke Burgess
Kunjai Patel, Dr Deanne August, Prof Nicole Marsh, Hannah Peach, Emily Larsen**

The Nursing and Midwifery Research Centre (NMRC) continues to promote a culture of research excellence across service lines. We conduct clinically important, robust, funded research which is internationally recognised and valued. Notable achievements include 49 peer reviewed publications, and 16 invited international presentations, and supervision of 21 HDR students.

In 2021, Professor Nicole Marsh had another busy year with the commencement of an NHMRC funded study, to implement ultrasound guided peripheral intravenous catheter insertion; this important work aims to develop strategies to prevent unnecessary harm to patients with compromised vascular access. In addition, her research exploring midline catheters was awarded the Dr Stephen Morrison Award for Best Clinical Research at this year's Herston Precinct Symposium. The NMRC's extensive vascular access research program was also acknowledged with the Quarrie 'Consumer Award'. This study involved consumer/researcher co-development of a mHealth application to streamline vascular access information and planning for Cancer Care patients. Congratulations Emily Larsen and team.

Our centre continues to support and showcase expert researchers. In his first year at the NMRC Professor Jed Duff has had exceptional outcomes including a collaboration with Queensland Children's Hospital that resulted in a successful NHMRC partnership project grant (\$1.4M over 4 years). His expertise in implementation science has proved invaluable to research across nursing and midwifery services, conducting research in a variety of settings. Professor Fiona Coyer's research program also continues to grow. In 2021, she authored, either as first, senior or co-author, 23 publications in peer reviewed journals. She is supervisor to nine higher degree research students. Anthony Batterbury, one of her doctoral students and a Clinical nurse in Intensive Care Services, achieved his final PhD seminar milestone and has moved to examination of his doctoral thesis – congratulations Anthony.

We are looking forward to another productive year in 2022.

Research Awards and Achievements

Recipient (RBWH staff in bold)	Award	Event
Fiona Coyer , Kerrie Coleman, Kathy Hocking, Tom Leong, Annabel Levido, Michelle Barakat-Johnson	Winner for the original research article category in the Coloplast Biatain Literary Awards for 2020: Maintaining skin health and integrity for staff wearing personal protective equipment for prolonged periods: a practical tip sheet	2021 Wounds National Conference

Recipient (RBWH staff in bold)	Award	Event
Claire Rickard, Nicole Marsh, Emily Larsen , Matthew McGrail, Nicholas Graves, Naomi Runnegar, Joan Webster, Amanda Corley , David McMillan, John Gowardman, Debbie Long, John Fraser, Fenella Gill, Jeanine Young, Marghie Murgo, Evan Alexandrou, Abu Choudhury, Raymond Chan, Nicole Gavin , Azlina Daud, Annamaria Palermo, Adrian Regli, Geoffrey Playford	Publication: Effect of infusion set replacement intervals on catheter-related bloodstream infections (RSVP): a randomised, controlled, equivalence (central venous access device) – non-inferiority (peripheral arterial catheter) trial	Publication accepted in The Lancet Journal
Nicole Marsh	Dr Stephen Morrison Award for Best Clinical Research. Presentation: Managing intravenous devices among patients with limited vascular access or prolonged therapy: a pilot randomised control trial	Herston Health Precinct Symposium 2021
Amanda Corley	Professor Lawrie Powell AC Early Career Research Award. Presentation: Risk factors for central venous access device failure: a multivariable analysis of 1893 catheters	Herston Health Precinct Symposium 2021
Emily Larsen , Amanda Ullman, Nicole Marsh , Natasha Roberts , Francesca Boyte , Trent Atkinson, David Wyld	Winner consumer focus project, Nursing and Midwifery Services, The vascular access passport	QuARRIES Awards 2021
Emily Larsen , Amanda Ullman, Nicole Marsh , Natasha Roberts , Francesca Boyte , Trent Atkinson, David Wyld	Service line award, Nursing and Midwifery Services, The vascular access passport	QuARRIES Awards 2021
Judy Munday	Postdoctoral Research Fellowship	Australian College of Operating Room Nurses (ACORN)

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
Marianne Kirrane, Mathilde Desselle, David Forrestal, Luke Wainwright, George Pang, Chris Futter, Fiona Coyer	Nursing & Midwifery Research Centre, Intensive Care Services, Herston Biofabrication Institute, Clinical Skills Development Centre	Improving critical care outcomes by reducing the risk of pressure injuries to the face in prone patients	MNHHS SEED Grant	\$99,788	2yrs, 2021-2022

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
Cory Williams Judy Munday Jed Duff	Nursing & Midwifery Research Centre, Perioperative Services	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	RBWH Foundation	\$75,000	2yrs, 2021-2022
Di Marsden, Tammy Baker, Rachel Peake, Margaret Whitson, Sally Ormond, Michelle Wilkes, Fiona Minett, Mandy Cutmore, Jaclyn Birnie, Amanda Styles, Kerry Boyle, Michelle Paul, Michael Pollack, Carlos Garcia Esperon, Jed Duff , Dominique Cadilhac, John Wiggers, Kelvin Hill, Kate Jackson, Kiel Hennessey, Joanna Goodenough	Nursing and Midwifery Research Centre	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	Agency For Clinical Innovation Research Grants Scheme 2020 Stroke Foundation SEED Grant	\$80,000	2yrs, 2021-2022
Alana Delaforce, Shannon Farmer, Janet Hardy, Jed Duff , Judy Munday , Kristin Miller, Lynne Glover, Gareth Ansell, Chris Corney, Cameron Hurst, Haitham Tuffaha	Nursing and Midwifery Research Centre	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	Betty McGrath Health Services Research Seeding Grant, Mater Research and the Mater Foundation	\$49,935	2yrs, 2021-2022
Judy Munday , Jed Duff	Nursing and Midwifery Research Centre	The Temperature Toolkit Project (the Study): Phase 1	3M Science. Applied to Life	\$60,000	2yrs, 2021

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
Bronwyn Griffin, Roy Kimble, Fiona Wood, Andrew Holland, Stephen McPhail, Warwick Teague, Leila Cuttle, Jed Duff , Natalie Phillips, Dianne Crellin, Yvonne Singer, Cody Frear, Dimitrios Vagenas, Alexandra Young, Pauline Calleja	Nursing and Midwifery Research Centre, Retrieval Services Queensland, Paediatric Surgery,	Implementation of Negative Pressure for Acute Paediatric Burns	NHMRC Partnership Projects PRC2	\$1,410,475.76	4yrs, 2021-2024
Deanne August, Nicole Marsh , Colette McIntyre , Pieter Koorts, Melissa Lai, Joshua Byrnes, Robert Ware, Kathleen Finlayson, Craig McBride, Fiona Coyer , Amanda Ullman	Nursing and Midwifery Research Centre, Neonatal Unit,	What lies beneath: accurate measurement and sequelae of neonatal mechanical skin injuries (WLB-neoSkin)	RBWH and RBWH Foundation Research Project Grant	\$50,000	1yr, 2021
Marsh N , Claire Rickard, Amanda Corley	Nursing and Midwifery Research Centre	Securing jugular central venous lines with dressings fixed to a liquid adhesive (Mastisol) in an Intensive Care Unit population (STICKY Trial)	Eloquent Healthcare	\$138,023.60	2yrs, 2021-2022
Linda Coventry Shirene Richards, Loreta Murphy, Lynda Parris, Nicole Marsh ,	Nursing and Midwifery Research Centre	Use of midline catheters compared with peripheral intravenous catheters in neurosurgical patients: a retrospective cohort study and economic analysis	Charlies Foundation for Research Mid-Range Grant Funding Program	\$30,000	2yrs, 2021-2022
Julieanne Graham, RBWH DART investigator team	Nursing and Midwifery Research Centre	DART3 (ultrasound equipment)	SERTA Capital Funding	\$43,700	2yrs, 2021-2022
Judy Munday , Jed Duff , Sameera Sananavake, Kimberley Ryan, Sarah Johns, Jacqui Haselmore, Florian Grimpen	Nursing and Midwifery Research Centre	Temperature decline during procedural sedation: an observational study	QUT Early Career Researcher Grant	\$20,000	2yrs, 2021-2022

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
Grace Xu, Scott Stirling, Carrie Wong, Nicole Marsh , Amanda Corley , Robert Ware, Son Nghiem	Nursing and Midwifery Research Centre	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)	Emergency Medicine Foundation	\$100,000	3yrs, 2021-2023
Nina Meloncelli, Katrina Campbell, Jed Duff , Jeff Rowland, Samantha Dillon	Nursing and Midwifery Research Centre, Healthcare Excellence and Innovation, Internal Medicine Services	Be-open to change: putting value-of-care decision making into the hands of clinicians	MNHHS LINK Grant	\$54,898	2yrs, 2021-2022
Salihah Asiri, Judy Munday Jed Duff , Michelle Guilhermino, Chamindie Punyadeera, Elizabeth Strathdee , Christine Woods	Nursing and Midwifery Research Centre, Perioperative Services, Anaesthetics Department	The effectiveness of virtual reality technology on perioperative anxiety among adults undergoing elective surgery	ACORN	\$10,000	2yrs, 2021-2022
Jed Duff , Judy Munday , Lita Olsson, Joanna Griffiths	Nursing and Midwifery Research Centre Occupational Violence Prevention Strategy Unit	Evaluating the ambassador occupational violence prevention program	Queensland Health, QUT CHT Grant	75,000	2yrs, 2021-2022
Bryan Gregory , Annabelle Levido , Pierre Clement , Helena Morrey , Marianne Kirrane , Adam Stott , Kristy Jackman , Fiona Coyer	Intensive Care Services, Nursing and Midwifery Research Centre, Social Work, Surgical, Treatment & Rehabilitation	Virtual visiting for families in the ICU – the VITAL study	RBWH Foundation COVID grant round	\$25,267.95	2yrs, 2020-2021
Judy Munday Samantha Keogh, David Sturgess, Jed Duff	Nursing and Midwifery Research Centre, Prince Alexandra Hospital	Continuous temperature monitoring for maintenance of perioperative thermoregulation (CO-TEMP): a pilot study	Centre for Healthcare Transformation SEED Funding	\$14,495.35	2yrs, 2020-2021

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
Nicole Marsh, Emily Larsen, Claire Rickard, Kerrie McLeod, Rob Ware, Amanda Ullman, Catherine O'Brien, Andrew Bulmer, Julie Flynn	Nursing and Midwifery Research Centre, Nursing and Midwifery Services	Developing ideal catheter to vein ratio parameters for peripheral venous and midline devices: recommendations to prevent catheter failure (the DIAMETER study)	RBWH and RBWH Foundation Research Project Grant	\$40,000	2yrs, 2020-2021
Nicole Marsh, Emily Larsen, Prof Claire Rickard, Kerrie McLeod, Rob Ware, Amanda Ullman, Catherine O'Brien, Andrew Bulmer, Julie Flynn	Nursing & Midwifery Research Centre, Nursing & Midwifery Services	Comparing the use of Midline Catheters versus Peripherally Inserted Central Catheters for patients requiring peripherally Compatible Therapies: A randomised controlled trial (the COMPACT Trial)	Griffith University	\$66,900	2yrs, 2020-2021
Claire Rickard, Nicole Marsh, Raymond Chan, Peter Mollee, Geoffrey Playford, Li Zhang, Andrew Hallahan, Evan Alexandrou	Nursing and Midwifery Research Centre	Peripherally inserted central catheter securement: the PISCES Trial	National Health and Medical Research Council (NHMRC)	\$438,191	7yrs, 2016-2021
Claire Rickard, Joshua Byrnes, Vineet Chopra, Amanda Ullman, Nicole Marsh, Emily Larsen, Raymond Chan	Nursing and Midwifery Research Centre	Measuring quality of life and experience for central venous access devices in cancer care: Developing and preliminary testing of MyVAD measures	Griffith University	\$99,502	2yrs, 2020-2021
Amanda Ullman, Nicole Marsh, Andrew Bulmer, Naomi Runnegar, Tricia Kleidon, Paul Lee-Archer, Benjamin Pearce, Deanne August, Cathy Biles, Joshua Byrnes, Vineet Chopra, Alan Coulthard, Rob Ware, Claire Rickard, Marianne Wallis, Peter Mollee	Nursing and Midwifery Research Centre, Neonatal Intensive Care Unit	Peripherally inserted central catheter innovation to reduce infections and clots: the PICNIC trial	NHMRC Grant	\$129,281.00	3yrs, 2020-2023
Amanda Ullman, Nicole Marsh, Emily Larsen, Claire Rickard	Nursing and Midwifery Research Centre, Cancer Care Services	Consumer-led innovation to implement improvements in vascular access device management: The Vascular Access Passport	Griffith University	\$38,775	2yrs, 2020-2021

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
Nicole Marsh Emily Larsen , Julie Flynn, Claire Rickard, Sue Cadigan , Barbara Hewer , Peter Groom	Nursing and Midwifery Research Centre,	Managing Intravenous Devices among patients with limited vascular access or prolonged therapy: Investigati Ng the Efficacy of midline catheters – the MIDLINE study	Australian College of Nursing, RBWH Foundation Research Project Grant	\$60,000	3yrs, 2019-2021
Nicole Marsh , Emily Larsen , Julie Flynn , Samantha Keogh, Claire Rickard	Nursing and Midwifery Research Centre	Peripheral intravenous COCOA pilot randomised controlled trial	Nursing and Midwifery Research Fellowship Grant	\$120,000	4yrs, 2017-2021
Claire Rickard, Amanda Ullman, Nicole Marsh , Tricia Kleidon, Gerben Keijzers, Jessica Schults, Marie Cooke, Joshua Byrnes, Robert Ware, Louise Cullen , Pauline Calleja, Fiona MacFarlane, Steven McTaggart, Henry Goldstein, Nathan Peters , Catriona Booker , Stephanie Hadikusumo , Krispin Hajkowicz , Stuart Watkins, Audra Gedmintas, Kerri McLeod , Herbert Down, Jeremy Wellwood, Mark Elcock	Nursing and Midwifery Research Centre, Emergency Medicine Department, Anaesthetics Department, Workforce Education and Development Unit, Nursing and Midwifery Services	Difficult peripheral intravenous catheter insertion: Australian considerations for sustainable implementation of ultrasound guided procedures	National Health and Medical Research Council (NHMRC) Partnership Grant	\$1,497,197.00	3yrs, 2021-2024
Deanne August, Nicole Marsh , Colette McIntyre , Pieter Koorts , Rebecca Allen , Linda McLaughlin , Rob Ware, Amanda Ullman, Katie Foxcroft , Linda Cobbald , Kate Coghill , Gillian Lack , Gemma Yates , Patricia Smith	Nursing and Midwifery Research Centre, Women's and Newborn Services,	Implementing the near infrared (NIR)-informed peripheral intravenous catheter (PIVC) scrub in neonatal care: an intervention study	RBWH and RBWH Foundation Research Project Grant	\$39,957.89	2020-2021

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
Nicole Gavin, Nicole Marsh , Amanda Ullman, Tricia Kleidon, Emily Larsen , Claire Rickard, Jill Campbell	Nursing and Midwifery Research Centre	Estimating prevalence of impaired skin surrounding DevicEs: the EPISODE study	RBWH Foundation Research Project Grant	\$40,000	2017-2021
Claire Rickard, Nicole Marsh , Sandy McCarthy, Tricia Kleidon, Emily Larsen , Li Zhang, Amanda Ullman, Rachel Edwards, Melissa Arneil	Nursing and Midwifery Research Centre	Controlling device Occlusion and infection by Connector Design And decontamination (The COCOA pilot trial)	Experience Researcher Fellowship Grant	\$18,241.00	2020-2021
Michelle Barakat-Johnson, Fiona Coyer , Kate White, John Stephenson	Nursing and Midwifery Research Centre	Effectiveness of a Pressure Injury Clinical Judgement Risk-screening tool and prevention plan: Cluster Randomised Control Trial (EmPIRE RCT)	MRFF & NSW Health, Rapid Applied Research Translation Fund	\$165,000	2019-2021
Michelle Barakat-Johnson, Fiona Coyer	Nursing and Midwifery Research Centre	A novel implementation of best available evidence into practice for incontinence-associated dermatitis (IMBED)	NSW Health, Translational Research Grant Scheme	\$930,705	2019-2021
Shaun O'Leary, Adrianne Young , Diann Eley, Peter Buttrum , Merrylin Banks , Nicole Marsh , Mark Cruickshank , James Elliott, Nicholas Talley, Scott Bell	Nursing and Midwifery Research Centre, Allied Health, Physiotherapy	Sustainable career pathways for clinician-scientists in Australian public health	RBWH Foundation Research Project Grant	\$39,229.95	2020-2022

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 2021
Judy Munday	Jed Duff , Sameera Ssanavake, Kimberley Ryan, Sarah Johns, Jacqui Haslemore, Florian Grimpén	Temperature decline during procedural sedation: an observational study	N/A
Jed Duff	Judy Munday , Lita Olsson, Joanna Griffiths	Evaluating the ambassador occupational violence prevention program	N/A
Judy Munday	Jed Duff	The Temperature Toolkit Project (the Study): Phase 1	N/A

Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2021
Nicole Marsh	Amanda Corley, Emily Larsen , India Pearse, Jill Campbell, Fiona Coyer , Evan Alexandrou, Robert Ware, John Fraser, Catherine O'Brien , Claire Rickard, Steve Frost, Nicholas Mifflin, Kellie Sosnowski, Lynette Morrison, Joanne Sutton, Craig McManus,	Securing jugular central venous lines with dressings fixed to a liquid adhesive (Mastisol) in an Intensive Care Unit population (STICKY Trial)	N/A
Nicole Marsh	Emily Larsen , Claire Rickard, Kerrie McLeod , Rob Ware, Amanda Ullman, Catherine O'Brien , Andrew Bulmer, Julie Flynn	Developing ideal catheter to vein ratio parameters for peripheral venous and midline devices: recommendations to prevent catheter failure (the DIAMETER study)	109
Judy Munday	Samantha Keogh, David Sturgess, Jed Duff	Continuous temperature monitoring for maintenance of perioperative thermoregulation (CO-TEMPT): a pilot study	N/A
Nicole Marsh	Emily Larsen, Julie Flynn , Samantha Keogh, Claire Rickard	Peripheral intravenous COCOA pilot randomised controlled trial	0
Nicole Marsh	Emily Larsen , Claire Rickard, Peter Groom , Tricia Kleidon, Catherine O'Brien , Evan Alexandrou, Megan Nicholas, Catriona Booker	Comparing the use of Midline Catheters versus Peripherally Inserted Central Catheters for patients requiring peripherally Compatible Therapies: A randomised controlled trial (the COMPACT Trial)	0
Fiona Coyer	Bryan Gregory, Annabelle Levido, Pierre Clement, Helena Morrey, Marianne Kirrane, Adam Stott, Kristy Jackman	Virtual visiting for families in the ICU: The VITAL study	62 staff 38 family members
Fiona Coyer	Annabel Levido, Kerrie Coleman, Kathy Hocking , Michelle Barakat-Johnson, Tom Long	Clinicians experiences of extended PPE wear, a qualitative study	12
Nicole Marsh	Emily Larsen , Julie Flynn, Claire Rickard, Sue Cadigan, Barbara Hewer, Peter Groom	Managing Intravenous Devices among patients with limited vascular access or prolonged therapy: InvestigatiNg the Efficacy of midline catheters – the MIDLINE study	0
Nicole Marsh	Amanda Ullman, Gabor Mihala, Marie Cooke, Claire Rickard	Peripheral intravenous catheter failure and infection in adults: a systematic review and meta-analysis. (a study)	N/A
Nicole Marsh	Emily Larsen , M Takashima, Tricia Kleidon, Samantha Keogh, Amanda Ullman, Gabor Mihala, Vineet Chopra, Claire Rickard	Peripheral intravenous catheter failure: a secondary analysis of risks from 11,830 catheters	N/A
Emily Larsen	Nicole Marsh , Gabor Mihala, Michelle King, Matthew Zunk, Amanda Ullman, Samantha Keogh, Tricia Kleidon, Claire Rickard	Intravenous antimicrobial administration through peripheral venous catheters – establishing risk profiles from an analysis of 5254 devices	NA
Emily Larsen	Nicole Marsh , Gillian Ray-Barruel, Evan Alexandrou, C Friese, Claire Rickard, Vineet Chopra	One Million Global Catheters (OMG) Oncology/Haematology sub-analysis project	N/A

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 2021	Total number of RBWH Patients Recruited
Julieanne Graham	RBWH DART investigator team	DART3 (ultrasound equipment)	NA	
Grace Xu	Scott Stirling, Carrie Wong, Nicole Marsh , Amanda Corley , 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)	0	0
Nina Meloncelli	Katrina Campbell, Jed Duff , Jeff Rowland, Samantha Dillon	Be-open to change: putting value-of-care decision making into the hands of clinicians	N/A	
Salihah Asiri	Judy Munday , Jed Duff , Michelle Guilhermino, Chamindie Punyadeera, Cory Williams , Elizabeth Strathdee , Christine Woods	The effectiveness of virtual reality technology on perioperative anxiety among adults undergoing elective surgery	N/A	
Cory Williams	Judy Munday , Jed Duff	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	N/A	
Benjamin Mackie,	Christopher Williams, Benjamin Tribe, Jessica Muscat, Bradley Clarke, Jessica Schults, Gillian Ray-Barruel, Nicole Marsh , Aldon Delport, Darwin Alvarenga,	The S2C Study – Securing Cannulas in Combat: a simulation-based mixed-method study	0	0
Linda Coventry	Shirene Richards, Loreta Murphy, Lynda Parris, Nicole Marsh ,	Use of midline catheters compared with peripheral intravenous catheters in neurosurgical patients: a retrospective cohort study and economic analysis	0	0
Bronwyn Griffin, Roy Kimble, Fiona Wood, Andrew Holland, Stephen McPhail, Warwick Teague, Leila Cuttle, Jed Duff , Natalie Phillips, Dianne Crellin, Yvonne Singer, Cody Frear, Dimitrios Vagenas, Alexandra Young, Pauline Calleja	Roy Kimble, Fiona Wood, Andrew Holland, Stephen McPhail, Warwick Teague, Leila Cuttle, Jed Duff , Natalie Phillips, Dianne Crellin, Yvonne Singer, Cody Frear, Dimitrios Vagenas, Alexandra Young, Pauline Calleja	Implementation of Negative Pressure for Acute Paediatric Burns	N/A	
Marianne Kirrane	Mathilde Desselle David Forrestal Luke Wainwright G Pang C Futter Fiona Coyer	Improving critical care outcomes by reducing the risk of pressure injuries to the face in prone patients	N/A	

Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2021	Total number of RBWH Patients Recruited
Deanne August,	Nicole Marsh, Colette McIntyre , Pieter Koorts, Melissa Lai, Joshua Byrnes, Robert Ware, Kathleen Finlayson, Craig McBride, Fiona Coyer , Amanda Ullman	What lies beneath: accurate measurement and sequelae of neonatal mechanical skin injuries (WLB-neoSkin)	0	0
Andrea Marshall	Daren Heyland, Marion Mitchel, Fiona Coyer	Family engagement in ICU study	65	65
Alana Delaforce,	Shannon Farmer, Janet Hardy, Jed Duff, Judy Munday , 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	N/A	
Shaun O'Leary	Adrianne Young , Diann Eley, Peter Buttrum , Merrilyn Banks , Nicole Marsh , Mark Cruickshank , James Elliott, Nicholas Talley, Scott Bell	Sustainable career pathways for clinician-scientists in Australian public health	N/A	
Claire Rickard	Amanda Ullman, Nicole Marsh , Tricia Kleidon, Gerben Keijzers, Jessica Schults, Marie Cooke, Joshua Byrnes, Robert Ware, Louise Cullen , Pauline Calleja, Fiona MacFarlane, Steven McTaggart, Henry Goldstein, Nathan Peters , Catriona Booker , Stephanie Hadikusumo , Krispin Hajkowicz , Stuart Watkins, Audra Gedmintas, Kerri McLeod , Herbert Down, Jeremy Wellwood, Mark Elcock	Difficult peripheral intravenous catheter insertion: Australian considerations for sustainable implementation of ultrasound guided procedures	N/A	
Deanne August	Nicole Marsh, Colette McIntyre, Pieter Koorts, Rebecca Allen, Linda McLaughlin , Rob Ware, Amanda Ullman, Katie Foxcroft, Linda Cobbald, Kate Coghill, Gillian Lack, Gemma Yates, Patricia Smith	Implementing the near infrared (NIR)-informed peripheral intravenous catheter (PIVC) scrub in neonatal care: an intervention study	135	135
Prof Amanda	Nicole Marsh , 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	69	388
Nicole Gavin	Nicole Marsh , Amanda Ullman, Tricia Kleidon, Emily Larsen , Claire Rickard, Jill Campbell	Estimating prevalence of impaired skin surrounding DeviceS: the EPISODE study	0	639
Claire Rickard	Nicole Marsh , Sandy McCarthy, Tricia Kleidon, Emily Larsen , Li Zhang, Amanda Ullman, Rachel Edwards, Melissa Arneil	Controlling device Occlusion and infection by Connector Design And decontamination (The COCOA pilot trial)	0	180
Claire Rickard	Nicole Marsh , Raymond Chan, Peter Mollee, Geoffrey Playford, Li Zhang, Andrew Hallahan, Evan Alexandrou	Peripherally InSerted Central catheter Securement: the PISCES Trial	112	1027

Lead Investigator Name (RBWH staff in bold)	Other Study Investigators (RBWH staff in bold)	Research Project Title	Number of RBWH Patients Recruited in 2021	Total number of RBWH Patients Recruited
Michelle Barakat-Johnson	Fiona Coyer , Kate White, John Stephenson	Effectiveness of a Pressure Injury Clinical Judgement Risk-screening tool and prevention plan: Cluster Randomised Control Trial (EmPIRE RCT)	N/A	
Michelle Barakat-Johnson	Fiona Coyer	A novel implementation of best available evidence into practice for incontinence-associated dermatitis (IMBED)	N/A	
Gillian Ray-Barruel	Nicole Marsh , Vineet Chopra, Tricia Kleidon, Claire Rickard	To be or not to be left in situ: Prevalence and complications of ideal intravenous catheters. A secondary analysis of 15,000 catheters	N/A	
Amanda Ullman	Nicole Marsh, Emily Larsen , Claire Rickard	Consumer-led innovation to implement improvements in central venous access device management: The Vascular Access Passport	10	10
Claire Rickard	Joshua Byrnes, Vineet Chopra, Amanda Ullman, Nicole Marsh, Emily Larsen , Raymond Chan	Measuring Quality of Life and Experience for Central Venous Access Devices in Cancer Care: Developing and preliminary testing of <u>MyVAD</u>	N/A	

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 2021	Total number of RBWH Patients Recruited
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, J Duff , 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	0

Research Publications

Publications in 2021

Journal Articles (RBWH staff in bold)

- Schults J, Paterson R, Kleidon T, Cooke M, Ullman A, **Marsh N**, et al. Understanding consumer preference for vascular access safety and quality measurement: an international survey. *Australian Health Review*. 2021. <https://doi.org/10.1071/AH21053>
- Coyer F**, Chaboyer W, Lin F, Doubrovsky A, Barakat-Johnson M, Brown W, et al. Pressure injuries in Australian intensive care units; A secondary analysis. *Aust Crit Care*. 2021. <https://doi.org/10.1016/j.aucc.2021.10.009>
- Hines S, Ramsbotham J, **Coyer F**. The experiences and perceptions of nurses interacting with research literature: A qualitative systematic review. *World Views on Evidence-Based Nursing*. 2021;18(6):371-378. <https://doi.org/10.1111/wvn.12542>
- Fourie A, Ahtiala M, Black J, Hevia H, **Coyer F**, Gefen A, et al. Skin damage prevention in the prone ventilated critically ill patient: A comprehensive review and gap analysis (PRONect study). *Journal of Tissue Viability*. 2021;30(4):466-477. <https://doi.org/10.1016/j.jtv.2021.09.005>

Journal Articles (RBWH staff in bold)

5. Sandy-Hodgetts K, Bui U, **Coyer F**, Weller C, Wood F, Finlayson K. A scoping review protocol to determine research priorities for acute wounds in adults in Australia. *Wound Practice & Research*. 2021;29(3):171-175. <https://doi.org/10.33235/wpr.29.3.171-175>
6. Levido A, Fulbrook P, Barakat-Johnson M, Campbell J, Delaney L, **Coyer F** et al. Pressure injury prevention practice in Australian intensive care units: A national cross-sectional survey. *Aust Crit Care*. 2021. <https://doi.org/10.1016/j.aucc.2021.11.004>
7. **Coyer F**, Chaboyer W, Lin F, Doubrovsky A, Barakat-Johnson M, Brown W, et al. Pressure injuries in Australian intensive care units; A secondary analysis. *Aust Crit Care*. 2021. <https://doi.org/10.1016/j.aucc.2021.10.009>
8. **Larsen EN**, Byrnes J, **Marsh N**, Rickard CM. Patient-reported outcome and experience measures for peripheral venous catheters: a scoping review protocol. *British Journal of Nursing*. 2021;30(19):S30-S35.
9. **Duff J**, Bowen L, Gumuskaya O. What does surgical conscience mean to perioperative nurses: An interpretive description. Australian College of Nursing Ltd. 2021. <http://doi.org/10.1016/j.colegn.2021.07.007>
10. Mackie BR, Williams C, Tribe B, Muscat J, Clarke B, **Marsh N**, et al. The S2C Study – Securing Cannulas in Combat: a simulation-based mixed method study. *Vascular Access*. 7(2):12-17. <https://doi.org/10.33235/va.7.2.12-18>
11. **Marsh N**, Larsen E, Takashima M, Kleidon T, Keogh S, Ullman AJ, et al. Peripheral intravenous catheter failure: a secondary analysis of risks from 11,830 catheters. *International Journal of Nursing Studies*. 2021;124:104095. <https://doi.org/10.1016/j.ijnursty.2021.104095>
12. McLaughlin M, **Duff J**, McKenzie T, Campbell E, Sutherland R, Wiggers J, et al. Evaluating digital program support for the physical activity 4 everyone (PA4E1) school program: Mixed methods study. *JMIR Pediatrics and Parenting*. 2021;4(3):e26690. <http://doi.org/10.2196/26690>
13. Fourie A, Ahtiala M, Black J, Hevia H, **Coyer F**, Gefen A, et al. Skin damage prevention in the prone ventilated critically ill patient: A comprehensive review and gap analysis (PRONect study). *Journal of Tissue Viability*. 2021. <https://doi.org/10.1016/j.jtv.2021.09.05>
14. **Duff J**. Editorial. *Journal of Perioperative Nursing: Fulfilling its mission and achieving its vision*. *Journal of Perioperative Nursing*. 2021;34(3): Article 8. <http://doi.org/10.26550/2209-1092.1148>
15. **Marsh N**, Rickard C. Invited Editorial. Peripheral intravenous catheter failure – is it us or is it them? *Lancet/haematology*. 2021;8: e615-e617.
16. **Coyer F**, Cook JL, Doubrovsky A, Campbell J, Vann A, McNamara G, et al. Implementation and evaluation of multi-layered pressure injury prevention strategies in an Australian ICU setting. *Aust Crit Care*. 2021. <https://doi.org/10.1016/j.aucc.2021.03.005>
17. Evison H, Sweeny A, Ranse J, Carrington M, **Marsh N**, Byrnes J, et al. Idle peripheral intravenous cannulation: an observational cohort study of pre-hospital and emergency department practices. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*. 2021;29:126 <https://doi.org/10.1186/s13049-021-00941-y>
18. Bailey R, Ramanan M, Litton E, Kai NSY, **Coyer F**, Garrouste-Orgeas M, et al. Staff perceptions of family access and visitation policies in Australian and New Zealand intensive care units: The WELCOME-ICU survey. *Australian Critical Care*. 2021. <http://doi.org/10.1016/j.aucc.2021.06.014>
19. **Pearce I**, **Marsh N**, Rickard C, Ullman A, **Larsen E**, Pelecanos A, et al. Polyhexamethylene biguanide discs versus unmedicated dressings for prevention of central venous catheter-associated infection in the intensive care unit: A pilot randomised controlled trial to assess protocol safety and feasibility. *Australian Critical Care*. 2021. <http://doi.org/10.1016/j.aucc.2021.05.015>
20. **Marsh N**, Larsen E, Hewer B, Monteagle E, Ware RS, Schults J, et al. How many audits do you really need? Learnings from 5-years of peripheral intravenous catheter audits. *Infection, Disease & Health*. 2021; <https://doi.org/10.1016/j.idh.2021.03.001>
21. Tutticci N, **Coyer F**, Ryan M. Optimising reflective capacity of nursing students after high fidelity simulation: A practical approach. *Aust J Clinical Education*. 2021;8(1) <https://doi.org/10.53300/001c.25332>

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22. Rheault H, **Coyer F**, Bonner A. Chronic disease health literacy in First Nations peoples: A mixed methods study. *J Clinical Nursing*. 2021. <https://doi.org/10.1111/jocn.15757>
23. Dalgleish L, Finlayson K, Campbell J, Barakat-Johnson M, Beath A, **Coyer F** et al. Understanding the skin failure conversation: A scoping review. *Advances in Skin and Wound Care*. 2021. <https://doi.org/10.1097/SFA.0000000000000575>
24. Hada A, Jack L, Jones L, **Coyer F**. Translating evidence-based nursing clinical handover practice in an acute care setting: A quasi-experimental study. *Nursing and Health Sciences*. 2021;23(2):466-476.
25. Delaforce A, **Duff J**, Munday J, Farmer S, Miller K, Glover L, et al. A theoretically informed approach to support the implementation of pre-operative anemia and iron deficiency screening, evaluation, and management pathways: Protocol for a type two hybrid-effectiveness study. *Journal of Multidisciplinary Healthcare*. 2021;14:1037-1044.
26. Nicholas M, Larsen E, Rickard C, Mihala G, Groom P, **Marsh N**. Peripherally inserted central catheter (PICC) insertion success and optimal placement with new technology: A pre-post cohort study. *JAVA*. 2021;26(1):39-46
27. Ullman A, August D, Kleidon T, Walker R, **Marsh N**, Bulmer A, et al. Peripherally inserted central catheter innovation to reduce infections and clots (the PICNIC trial): a randomised controlled trial protocol. *BMJ Open*. 2021;11:e042475.
28. Rickard C, **Marsh N**, Larsen E, McGrail M, Graves N, Runnegar N, et al. Effect of infusion set replacement intervals on catheter-related bloodstream infections (RSVP): a randomised, controlled, equivalence (central venous access device) – non-inferiority (peripheral arterial catheter) trial. *The Lancet*. 2021;397:1447- 1458.
29. Heiniger K, Hocking K, Paxman N, Llewellyn S, Pelecanos A, **Coyer F**. Identifying contributing factors to tracheostomy stoma breakdown: a retrospective audit in a single adult intensive care unit. *Wound Practice and Research*. 2021;29(1): 10-17.
30. Kynoch K, **Coyer F**, Mithcell M, McArdle A. The intensive care unit visiting study: A multi-site survey of visitors. *Aust Crit Care*. <https://doi.org/10.1016/j.aucc.2021.01.007>
31. **Duff J**. Still more to do to improve perioperative safety and prevent patient harm. *Journal of Perioperative Nursing*. 2021;34(2): 1-3. <https://doi.org/10.26550/2209-1092.1127>
32. Marsh N, **Corley A**, Schults J, Vemuri K, Rickard C. Midline catheters – a good alternative device?. *Anaesthesia Critical Care and Pain Medicine*. 2021; 40:1-3. <https://doi.org/10.1016/j.accpm.2021.100885>
33. Kearney L, Craswell A, Massey D, **Marsh N**, Nugent R, Alexander C, et al. Peripheral intravenous catheter management in childbirth (PICMIC): A multi-centre, prospective cohort study. *Journal of Advanced Nursing*. <https://doi.org/10.1111/jan.14933>
34. Marsden DL, Boyle K, Jordan LA, Dunne JA, Shipp J, **Duff J** et al. Improving assessment, diagnosis, and management of urinary incontinence and lower urinary tract symptoms on acute and rehabilitation wards that admit adult patients: Protocol for a before-and-after implementation study. *JMIR Research Protocols*. 2021;10(2).
35. Mclaughlin M, **Duff J**, Sutherland J, Campbell E, Wolfenden L, Wiggers. Protocol for a mixed methods process evaluation of a hybrid effectiveness-implementation trial of a scaled-up whole-school physical activity program for adolescents: Physical Activity 4 Everyone. *BMC Trials*. 2020;21(1):1-11.
36. Hada A, **Coyer F**. Shift-to-shift nursing handover interventions associated with improved in-patient outcomes – falls, pressure injuries and medication administration errors: An integrative review. *Nursing and Health Sciences*. 2021. <https://doi.org/10.1111/nhs.12825>
37. **Coyer F**, Barakat-Johnson M, Campbell J, Palmer J, Parke R, Hammond NE, et al. Device-related pressure injuries in adult intensive care unit patients: An Australian and New Zealand point prevalence study. *Australian Critical Care*. 2021. <https://doi.org/10.1016/j.aucc.2020.12.011>
38. Batterbury A, Douglas C, **Coyer F**. The illness severity of patients reviewed by the medical emergency team: A scoping review. *Australian Critical Care*. 2021. <https://doi.org/10.1016/j.aucc.2020.11.006>
39. **Coyer F**. Letter to the Editor: Silicone adhesive multilayered foam dressings for pressure ulcer prevention. *British Journal of Dermatology*. 2021. <https://doi.org/10.1111/bjd.19873>

Journal Articles (RBWH staff in bold)

40. Pather P, Doubrovsky A, Jack L, **Coyer F**. Incontinence-associated dermatitis: Who is affected? *Journal of Wound Care*. 2021; 30(4):2-8.
41. Rheault H, **Coyer F**, Bonner A. Time to listen: Chronic disease yearning with Aboriginal and Torres Strait Islander peoples living in remote Australia. *Collegian*. 2021;28(1):10-17. <https://doi.org/10.1016/j.colegn.2020.06.001>
42. Labeau SO, Afonso E, Benbenishty J, Blackwood B, Boulanger C, **Coyer F**, et al. International study of the prevalence, associated factors and outcomes of pressure injuries in adult intensive care unit patients. *Intensive Care Medicine*. 2021;47:160-169. <https://doi.org/10.1007/s00134-020-06234-9>
43. Gardner A, Helms C, Gardner G, **Coyer F**, Gosby H. Development of nurse practitioner metaspecialty clinical practice standards: A national sequential mixed method study. *Journal of Advanced Nursing*. 2021;77(3):1453-1464. <https://doi.org/10.1111/jan.14690>
44. Barakat-Johnson M, Basjarahil S, Campbell J, Cunich M, Disher G, **Coyer F** et al. Implementing best available evidence into practice for incontinence-associated dermatitis in Australia: A multisite multimethod study protocol. *Journal of Tissue Viability*. 2021;30(1):67-77. <https://doi.org/10.1016/j.jtv.2020.10.002>.
45. Theobald KA, **Coyer F**, Henderson A, Fox R, Thomson B, McCarthy A. Developing a postgraduate professional education framework for emergency nursing: a co-design approach. *BMC Nursing*. 2021;20:43. <https://doi.org/10.1186/s12912-021-00560-z>
46. Indarwati F, **Munday J**, Keogh S. Nurse knowledge and confidence on peripheral intravenous catheter insertion and maintenance in pediatric patients: A multicentre cross-sectional study. *Journal of Pediatric Nursing*. 2022; 1:62:10-6.
47. Lang M, Jones L, Harvey C, **Munday J**. Workplace bullying, burnout, and resilience amongst perioperative nurses in Australia: A descriptive correlational study. *Journal of Nursing Management*. 2021.
48. **Munday J**, Higgins N, Jones L, Vagenas D, Van Zundert A, Keogh S. Zero-Heat-Flux and Esophageal Temperature Monitoring in Orthopedic Surgery: An Observational Study. *Journal of Multidisciplinary Healthcare*. 2021;14:1819.
49. Kaldheim HK, Fossum M, **Munday J**, Creutzfeldt J, Slettebø Å. Use of interprofessional simulation-based learning to develop perioperative nursing students' self-efficacy in responding to acute situations. *International Journal of Educational Research*. 2021;109:101801.

Keynote or Plenary Lectures given in 2021

Date	Title
2021	Finlayson K, Sinasac P, Francis M, Coleman K, Coyer F . Implementation of the protecting skin integrity model for evidence-based wound management. The 6 th Annual Meeting of Wound Management Association of HCM City. (Online presentation). 2021
2021	Marsh N . Midline pilot randomised controlled trial. 2021 ACIPCI International Conference, South Australia. 2021.
2021	Marsh N , Larsen E, Rickard C, Pelecanos A, Hadikusumo S, Ray-Barruel G, Chopra V. PIVC Awareness Study. Herston Precinct Symposium 2021
2021	Craswell A, Massey D, Ullman A, Ray-Barruel G, Cooke M, Marsh N , Wallis M. Undergraduate nursing students' perceptions of their educational preparation about management and removal of peripheral intravenous catheters. Council of Deans Symposium, Sunshine Coast, Australia 2021.
2021	Corley A . (Poster) Securement bundles to prevent peripheral intravenous catheter (PIVC) failure. 2021 ACIPCI International Conference, South Australia. 2021.
2021	Duff J . Making sense of implementation science. 2021 ANZCA Clinical Trials Network 13 th Annual Meeting. Translational Research Institute Australia, Brisbane. 2021
2021	Coyer F . 3D engineering for facial pressure injury protection in ICU. Herston Health Precinct Symposium, Royal Brisbane & Women's Hospital. 2021

2021	Duff F , Olsson L. Occupational Violence. Herston Health Precinct Symposium, Royal Brisbane & Women's Hospital. 2021
2021	Marsh N, Larsen E, O'Brien C , Groom P. Managing intravenous devices among patients with limited vascular access or prolonged therapy: a pilot randomised control trial (The Midline Study). Herston Health Precinct Symposium, Royal Brisbane & Women's Hospital. 2021
2021	Marsh N , Gavin N. (Chair). Falls in Hospital and How to Avoid Them. Herston Health Precinct Symposium, Royal Brisbane & Women's Hospital. 2021
2021	Duff J . Implementation Science and Research Translation. 2021 Annual ANZCA Clinical Trials Network Strategic Research Workshop. Pullman Hotel, Brisbane, Australia. 2021
2021	Marsh N . Improving vascular access care to value patient and staff time. End PJ Paralysis Global Summit 2021. United Kingdom. 2021. (online presentation)
2021	Duff J . What do perioperative nurses mean when they talk about their surgical conscience? 5 th Australian Nursing and Midwifery Conference, Newcastle, Australia, May 2021
2021	Marsh N (online presentation) Midline Catheters – How do they compare to PIVs? Association for Vascular Access 2021 in Orlando, Florida, September 16-19, 2021.
2021	Marsh N (online presentation) Characteristics and risk factors associated with peripheral intravenous catheter failure (PIVCs). How can we optimize PIVC survival? Infusion Nurses Society, USA. 2021
2021	Marsh N Prevention of PIVC complications in hospitalised patients. <i>Herston Infectious Diseases Institute Inaugural Forum</i> , Education Centre, RBWH, March 2021