



Caboolture and Kilcoy Hospitals and
Woodford Corrections Health Service

Research Report

January 2022 – June 2023

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KEY RESEARCH STATISTICS



53 articles published

in many high impact journals including

- New England Journal of Medicine
- JAMA
- The Lancet



Over **\$656k**
awarded in grant funding

Including **7** CKW Common Good
Health Services Research Grants



28 New SSA approved
research projects

A message from CKW Executive Director

It is with great passion that I write this foreword, as research is such an important aspect of the care and services we provide. Research ensures that we provide the most appropriate and safest healthcare to our patients and community. It also allows us and our community to contribute to the development of new technologies, care, procedures, and therapies worldwide.

Research relies on nurturing and sustaining relationships between consumers, clinicians in healthcare, university partners and funding organisations to foster innovation that improves healthcare. There are often more failures than successes in research which undoubtedly, helps to build resilience across our research active workforce. Our research report provides a unique opportunity to highlight and celebrate our research achievements.

During this reporting period, we transitioned to business as usual and saw an increased demand for research support. Our Research Development Unit expanded to include our first-ever dedicated clinical trials nurse – thank you to the collaborative supports of the Herston Infectious Diseases Institute (HeIDI) and our Surgical and Intensive Care stream. Additionally, we celebrated our third consecutive Metro North Health Clinician Researcher Fellowship with Dr Elizabeth (EJ) Marsden (Emergency Department Physician) awarded this prestigious fellowship. EJ's program of research will focus on the evaluation of a value-based pragmatic substitution model that enables timely access to specialist care for older adults in residential aged care facilities.

Our annual CKW research symposium was again a success with our highest recorded attendance (virtual and in-person) to date. With the support of The Common Good, research grants in the novice and experienced researcher categories were awarded totalling \$100K across diverse research projects led by medical, allied health and nursing/midwifery staff in the areas of paediatrics, emergency medicine, older persons, intensive care and maternity.

Finally, I would like to extend my gratitude to our community of researchers who dedicate so much of their time and passion in supporting our vision of improving healthcare outcomes for our community. There is always more that we can achieve through research and I would like to encourage current and future staff to consider how we can continue our journey, particularly with supporting health equity for our community and beyond.



Karlene Willcocks

Executive Director

Caboolture and Kilcoy Hospitals and Woodford Corrections Health (CKW)

A message from The Common Good

At The Common Good, our vision is to help people live healthier for longer by supporting impactful research and hospital innovations.

In partnership with Caboolture Hospital, Kilcoy Hospital, and Woodford Corrections Health, we are proud to play a key role in advancing patient care through research grants, patient programs, and initiatives that deliver tangible health outcomes.

In the 18-month period from January 2022, we were pleased to continue our investment in this region by funding diverse research projects that address critical health challenges, including healthy ageing, mental health, and First Nations and multicultural health.

With a commitment of \$150,000 towards general research support and a further \$100,000 in research funding through the Caboolture, Kilcoy and Woodford Research Grants, we enabled local clinicians and emerging researchers to pursue innovative projects aimed at improving patient care and outcomes. We were also pleased to continue our sponsorship of the Caboolture, Kilcoy and Woodford Corrections Health research symposium.

Research is a journey that requires dedication, perseverance, and collaboration and we are proud of the researchers that we support who continue their important work, undeterred, to meet the needs of our community.

I extend my deepest gratitude to our supporters—individuals, businesses, and community partners—whose generosity makes this life-changing work possible.

At The Common Good, we are proud to stand alongside Caboolture Hospital in our shared mission of advancing research, improving patient outcomes, and ensuring that healthcare is equitable and accessible for all. Together, we are creating a healthier future.



Steve Francia

Chief Executive Officer

The Prince Charles Hospital Foundation
Proudly supporting Caboolture Hospital



CKW Research Development Unit (RDU)

The CKW RDU consists of a team of multidisciplinary research coordinators, fellows and officers.

The RDU help to build research capacity and capability across the CKW clinical directorate through advocacy for additional research support and infrastructure, linkages with academic partners, sharing of research training opportunities, delivery of local research training, and the provision of individualised advice to clinicians on research governance, design, evaluation and dissemination.

The RDU is located across sites at Riverside Office and integrated into ED and ICU wards at the Caboolture Hospital.

Starting with 3 part time staff in 2016, the RDU now consists of 9 part time staff across allied health, nursing and lab-based science backgrounds.

OUR TEAM

A/Prof Thuy Frakking, Acting Research Director

Dr Louise Purtell, Senior Research Fellow

Dr Andrew Hislop, Acting Research Coordinator

Dr Seiji Humphries, Research Officer

Julia Affleck, Research Officer

Dr Alison Craswell, University of Sunshine Coast Visiting Nursing Fellow

Stacey Watts, Clinical Nurse Research (Emergency Department, Kilcoy and Woodford)

April Hatt, Clinical Nurse Research (Emergency Department, Kilcoy and Woodford),

Emma Williams, Clinical Nurse ICU & HeIDI

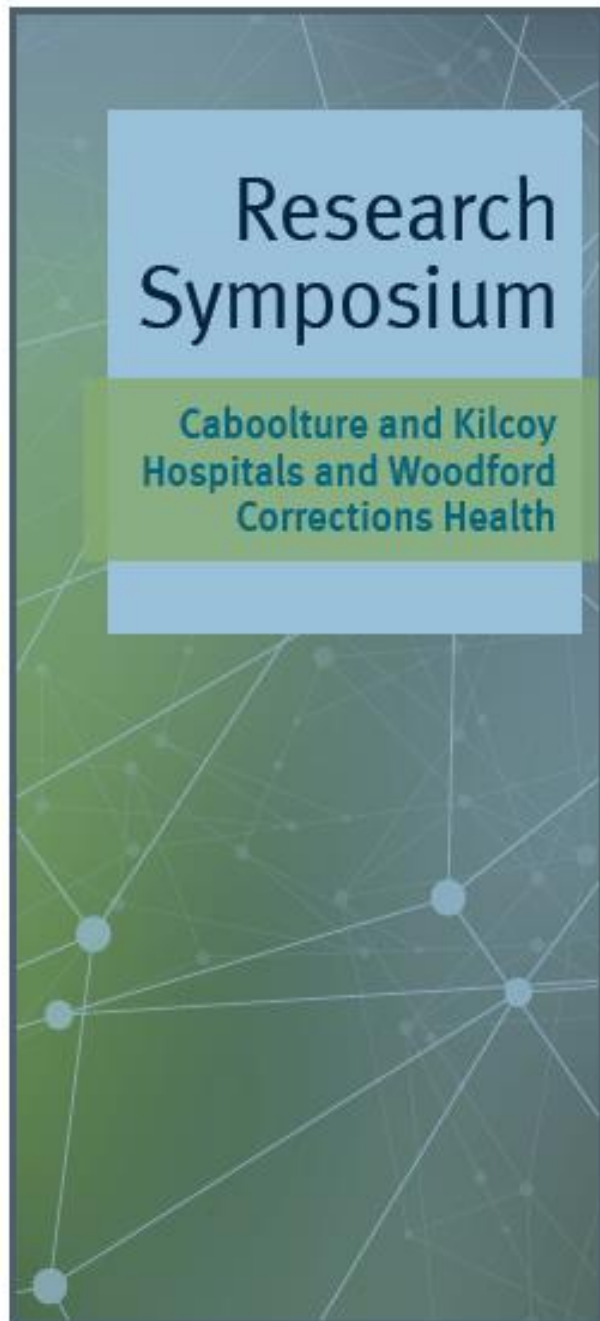
A: 7 Morayfield Rd, Caboolture, QLD 4510

E: RDU.Caboolture@health.qld.gov.au



Left to Right: Dr Louise Purtell, Dr Thuy Frakking, April Hatt, Stacey Watts, Dr Andrew Hislop, Julia Affleck, Dr Alison Craswell & Dr Seiji Humphries

CKW Research Sympoisum



In October 2022, the 2nd annual Caboolture, Kilcoy, Woodford Corrections Health Research Symposium was held at Caboolture Hospital's Lecture Theatre. The symposium was designed to showcase and promote CKW-led research from across all disciplines.

The Symposium featured sixteen study presentations and a keynote presentation by Professor Nicole Marsh, Nursing and Midwifery Director RBWH titled "Developing a hospital based vascular access research group"

The symposium was made possible by the support of the CKW Research Development Unit, Prof Dan Chambers, Executive Director Metro North Research, and the event sponsor The Common Good.



Keynote presentation:

Developing a hospital based vascular access research group

Professor Nicole Marsh, *Nursing and Midwifery Director Research, RBWH*

Proudly supported by:



THE COMMON GOOD
CORPORATE SOCIAL RESPONSIBILITY

Metro North Health



Queensland Government

CKW RESEARCH SYMPOSIUM AWARD WINNERS

Research/Quality Improvement study in progress presentations

★ **CO-WINNER:** Dr Nina Meloncelli, Workforce Development Office Allied Health, Post-doctoral Research Fellow UQ

Changing the gut microbiota during pregnancy: a novel, co-designed dietary intervention to prevent gestational diabetes for high-risk women

★ **CO-WINNER:** A/Prof Dylan Flaws, Staff Specialist, Mental Health & Dr Stuart Baker, Staff Specialist, ICU

Early Psychiatric Assessment, Referral, and Intervention Study (EPARIS) for intensive care patients



Research/Quality Improvement study concept presentations

★ **WINNER:** Benita Suckling, Medicine Safety Pharmacist

Trends in opioid dispensing 2008-2018: A Queensland perspective

★ **HIGHLY COMMENDED:** Dr Karen Furlong, Staff Medical Officer Emergency

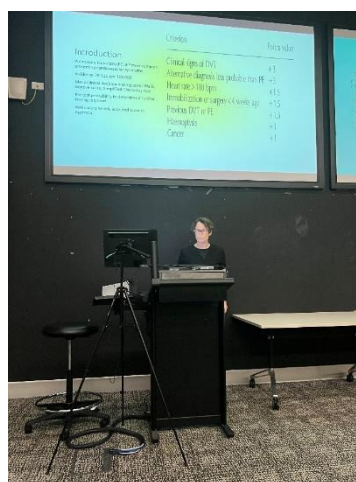
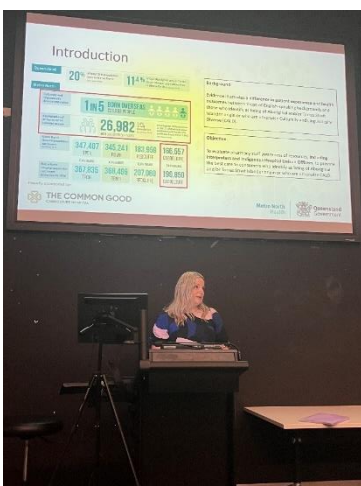
D. dimer adjusted to low clinical probability in the diagnosis of suspected pulmonary embolism – is it safe in the urban emergency department?



Novice Researcher

★ **WINNER:** Zoe Robinson, Pharmacist Intern

Investigation pharmacy staff awareness of interpreters, Indigenous Hospital Liaison Officers and medication-related resources in hospitals



Top: Dr Nina Meloncelli,
A/Prof Dylan Flaws,
Benita Suckling.

Left to Right: Zoe Robinson,
Dr Karen Furlong.

ADDITIONAL PRESENTATIONS

Name	Title
Alana Hogan , Clinical Nurse	Understanding nursing assessment of health literacy in Australia: A qualitative study
Jennifer Dermer , Registered Nurse, UniSC &	Exploring nurses' experiences of performing basic life support in hospital wards
Tracey Zammit , Nurse Educator	
Dr Mahesh Ramanan , Staff Specialist ICU	Phosphate replacement in critical illness: the PRICE fully digitally-integrated, cluster-randomised, crossover trial
David Thompson , Director of Physiotherapy &	Woodford Correctional Physiotherapy Outreach Service
Dr Louise Purtell , Senior Research Fellow	
Dr Mahesh Ramanan , Staff Specialist ICU	Sedation practices after out of hospital cardiac arrest
Belinda Chappell , Senior Pharmacist	Investigating variance in reporting times of vancomycin concentrations by availability of on-site therapeutic drug monitoring
Katrina Cook , Elective Surgery Coordinator &	Establishing critical care nursing research priorities for public hospital in the Moreton Bay to Fraser Coast Region: a multisite mixed method study
Dr Alison Craswell , Visiting Research Fellow UniSC	
Annabelle Marozza , Senior Occupational Therapist	SHORT Sensory Profile 2: Information and relevance to diagnosis criteria for Attention Deficit Hyperactivity Disorder (ADHD) and Autism Spectrum Disorder (ASD) in 7-13 year old Australian children
Annabelle Marozza , Senior Occupational Therapist &	The effect of different service models on quality of care in the assessment of autism spectrum disorder in children: study protocol for a multi-centre randomised controlled trial
Dr Lisa Kane , Consultant Paediatrician	
Dr Thuy Frakking , Research Coordinator	Cost-Effectiveness of Care Coordination for Children with Chronic Noncomplex Medical Conditions: Results from a multicentre randomised clinical trial
Dr Thuy Frakking , Research Coordinator	Use of slightly thickened formulas for infants and children with paediatric feeding disorders: Influence of standardisation and nutritional content in an Australian context
Dr William Zhang , Resident Medical Officer	Postoperative Pain Management Audit (poster)

CKW Common Good Health Services Research Grants

2022 saw the Caboolture and Kilcoy Hospitals and Woodford Corrections Health (CKW) inaugural research grants to enable research projects that addressed a clinical need at Caboolture Hospital, Kilcoy Hospital and/or Woodford Corrections Health.

The round supported two categories of grants: Novice Research Grants valued up to \$10,000, and Research Grants valued up to \$20,000 with the panel considering awarding one grant focused on Aboriginal and Torres Strait Islander health research. Many grants were received with 7 grants awarded. To celebrate and congratulate recipients, a recognition event was held on Friday 17 June in the Education Centre, Caboolture Hospital.

CKW RESEARCH GRANT WINNERS

★ Dr Mahesh Ramanan, Stacey Watts, Dr Alison Craswell (\$20,000)

Vasopressor Infusion via Peripheral vs Central Access in patients with shock - The VIPCA randomised controlled feasibility trial

The study will perform a small, randomised control trial to assess the feasibility and requirements to plan and perform a large multicentre study into the safe delivery of vasopressors via peripheral intravenous catheters and avoidance of central venous catheters.

★ Dr Thuy Frakking, Manuel Bautista, Anne Clayton (\$19,010)

Swallowing sounds in premature babies (SUPERB) study

The study aims to develop an algorithm using machine learning techniques to automatically detect swallowing sounds and to categorise impaired versus non-impaired swallows in premature babies

★ Dr Sean Clark (\$19,981)

Improving rapid access to care for patients with type 1 diabetes - a needs analysis

★ Annabelle Marozza, Karen Hay, Dr Thuy Frakking (\$10,000)

SHORT Sensory Profile2 information and relevance to diagnosis of Attention Deficit Hyperactivity (ADHD) and Autism Spectrum Disorder (ASD) in 7-13 year old Australian children

The study will assess how information from the SHORT Sensory Profile2 can be used to streamline the diagnoses of chronic, non-complex conditions such as autism spectrum disorder and attention deficit hyperactivity disorder

★ Dr. Shahida Rehman, Karen Hay, Dr Thuy Frakking, Dr Alison Craswell (\$9,796)

Outcomes of breech birth by mode of delivery across hospitals withing MNHHS: a retrospective observational study

The study aims, by auditing MNHHS records over the past decade to determine if the type of planned birth mode and clinician training in vaginal breech births predicts maternal, neonatal and hospital-related outcomes in women with breech presentation at term

★ Aletta Cowen (\$9,952)

CT scan requests by Nurse Practitioners in the emergency department of a community hospital for presentations of minor trauma and infections including older adults

The study will assess if emergency department nurse practitioners ordering CT scans will result in equivalent or improved patient and health service outcomes

★ Deborah Sutherland (\$10,000)

Evaluating an innovative model of antenatal care for young, vulnerable mothers



Dr Elizabeth Marsden, Metro North Clinician Research Fellow

In 2019, Metro North Health commenced offering Clinician Research Fellowships to health professionals to undertake programs of research that improve clinical care and practice. The Fellowships are prestigious and highly competitive among allied health, medical and nursing/midwifery clinician researchers across Metro North Health.

In 2023, Dr Marsden became only the 3rd Caboolture affiliated recipient of the prestigious Metro North Clinician Research Fellowship.

Elizabeth's team is addressing the need for innovations in health care of older adults in residential aged care facilities with the formation and delivery of a novel patient-centred model of care (MOC) that utilises a multidisciplinary outreach team of nurse practitioners, geriatricians, ED physicians and pharmacists to diagnose and manage falls and upper limb fractures in older adults in their own place of residence rather than in the ED.

The vision for the RADAR emergency falls and fracture orthopaedic residential model (REFORM) and Elizabeth's fellowship is to provide a value-based pragmatic ED substitution service enabling timely access to specialist care for older adults in residential aged care facilities. Her research program will comprise three interrelated projects:

- a process evaluation of the REFORM MOC structure, processes, and outcomes
- a diagnostic accuracy of bedside point-of-care ultrasound (POCUS) for older adults with a suspected acute distal radius fracture
- a randomised controlled trial (RCT) in residents with dementia and a distal radius fracture to determine if plaster cast colour leads to fewer cast removals.

To read more about Dr Marsden and the RADAR Rapid Response team see research story on page 22.



Dr EJ Marsden (far left) pictured with other 2023 MNH Clinician Research Fellows

Experiences of a CKW Research Officer

Dr Seiji Humphries, Research Officer across both Metro North and Metro South, commenced at Caboolture Hospital in 2021. Three years on, Seiji is embedded as an essential member of the Research Development Unit and at Caboolture and Kilcoy Hospitals and Woodford Corrections Health Service. We sat down with Seiji and discussed his experiences as a Research Officer at Caboolture Hospital.

“ What does a typical day look like in the life of a Research Officer?

One of the reasons I enjoy the role is that my typical day can be so variable, depending on the stage of the projects I'm working on. At different times, it has included:

Recruiting potential participants to be part of our studies, often via phone or email, but also via visiting the Special Care Unit to talk to the parents of premature newborns, conducting interviews with speech pathologists from all over Australia and administering questionnaires with Caboolture Hospital caregivers about their child's quality of life and their family's experience in the hospital system and segmenting swallowing sounds.

“My family and friends couldn't believe me when I first told them I spent my day listening to recordings of babies feeding and identifying the start and end of their swallow sounds to within a fraction of a second! It's something I never expected to be doing as a social worker, but it's been an interesting learning journey, with a fantastic goal (to use machine learning to identify swallowing disorders via sounds, instead of X-ray video)”

I also spend a lot of time creating databases and online questionnaires and research instruments, including learning to use new apps/platforms like REDCap and Citizen Space and developing/editing research protocols, participant information and consent forms, and other documents to be submitted for the approval of ethics and governance bodies.

“ What do you enjoy about working in CKW? What aspects are challenging for you?

Working in a geographical area that experiences its fair share of social disadvantages, I find it rewarding to be conducting research that aims to improve and adapt services to meet the needs of people doing it tough in life. The level of need that you see in the local community really provides meaning to the work we do. The RDU team has a really positive dynamic due to the smart, skilled, passionate and friendly people that comprise it. It's great being part of a small approachable team.

Some challenging aspects of working in CKW are seeing the struggles that some of the families participating in our study are going through due to their lack of resources and their chronic health conditions.

Also, some aspects of the research process can be mundane and repetitive, so you just have to plough through and keep the higher purpose in mind. (Plus, sometimes it can be nice doing some mindless data entry when your brain needs a rest!)

Additionally, our collaborating clinicians are so busy with their clinical work that they may take some time to respond to research-related questions. While this can be frustrating from the point of view of study progress, patients' immediate needs obviously need to take their priority and I am in awe of their levels of skill and knowledge.

“ How is your role different to a Principal Investigator, Research Fellow or Research Coordinator?

I’m responsible for doing much of the leg work involved in conducting research projects, managing their day-to-day operations. I really like the variety of this role and the fact I am often the public face of the projects, interacting with participants to make sure they have a rewarding experience, and their rights and wellbeing are protected.

“ What are your plans in the next 2-5 years?

In the next few years, I plan to keep working on the same topics/bodies of research at CKW – I really believe in what these are trying to achieve, and feel I can contribute towards them reaching fruition and achieving their worthy objectives.

I have a very supportive supervisor and colleagues, making the RDU a great working environment. I’m looking forward to further broadening my skills, such as by learning more about qualitative research methods and contributing to study designs.

“ How do you think you’ve grown and changed since being in the research officer position for the past 3 years?

I have gained a lot of knowledge and awareness about interesting topics that were totally unknown to me before I started at CKW – such as the enormous challenges families and clinicians face in assessing and managing autism and related conditions, and the increasing prevalence of swallowing problems experienced by premature babies (now that more and more of them are surviving due to modern medicine).

I’ve also learnt so much about the research process and particularly how it is carried out

within Queensland Health, from ethics and governance approvals to the dissemination of findings at study completion. The transferable skills and knowledge I’ve gained will be valuable for my future research work.

“ What is your work/life balance like?

This is definitely one of the aspects of my role that I most appreciate. As I am a carer for elderly parents with dementia and other major health challenges who live in this area, I need to give a high priority to looking after myself physically and mentally. So, I am really grateful for the work/life balance this role affords me.

“ We hear that you are an avid Japanese taiko drummer. Tell us more about this unique hobby.

Taiko (meaning simply “drum” in Japanese) is something I just love to do, having discovered a class in Brisbane about 10 years ago. When you’re creating thunderous rhythms (accompanied by dynamic arm and body movements) with a bunch of other people, you just get into a total flow state and forget about everything else. Plus, it’s a great opportunity to stay in touch with my Japanese heritage. My amateur group have performed at music festivals (including the Caboolture Lunar New Year event), sporting events (e.g. T20 international cricket) and corporate gigs from the Sunshine Coast to the Gold Coast. It’s a real buzz when the audience responds well and people give you positive feedback after your performance.

“ What advice would you give to staff interested in research?

Give it a go!

Below: Dr Seiji Humphries performing in a Taiko drum show



Nurses on a journey towards higher degree research pathways

Frontline nurses are busy healthcare professionals who look after the needs of patients on a daily basis. They typically struggle to find time in shifts to do research without the support of funding for backfill of their role. Despite this, two dedicated nurses at CKW have embarked on a higher degree research pathway and commenced their studies while continuing to work as frontline nurses. Alana Hogan, a Clinical Nurse in Surgery (Ward 2), is currently completing her Master of Acute Care Nursing with Griffith University. Alana saw first-hand the difficulties her patients had with comprehending and consenting to cares and procedures. She had an inkling it was possibly related to their health literacy levels and set out to gain a better understanding of health literacy in a healthcare setting. As part of her Masters, she completed an integrative review exploring the nurse's ability to assess the health literacy of their patients. The study, now published in the Journal of Clinical Nursing, found that nurses had a tendency to overestimate their patients' health literacy levels, which can result in ineffective health education and inadequate discharge planning.

As a result of her study, Alana recommended formal health literacy assessments should be introduced and include training to provide nurses with the confidence and ability to undertake health literacy assessment. Alana says, 'such education would enhance the patient's understanding and improve discharge planning, which may reduce health service costs and readmissions.'

Amanda Balmar, RN at Woodford Corrections Health, is currently completing her PhD with the University of Southern Queensland and has published in JBI Evidence Synthesis, Effectiveness of interventions to reduce sexually transmitted infections and blood-borne viruses in incarcerated adult populations: a systematic review protocol.

Nicole Franz, RN in paediatrics also successfully published research outcomes from her Masters project entitled The Effects of Selective Serotonin Reuptake Inhibitors in newborn adaptation and withdrawal symptoms: A scoping review, in the Journal of Neonatal Nursing.



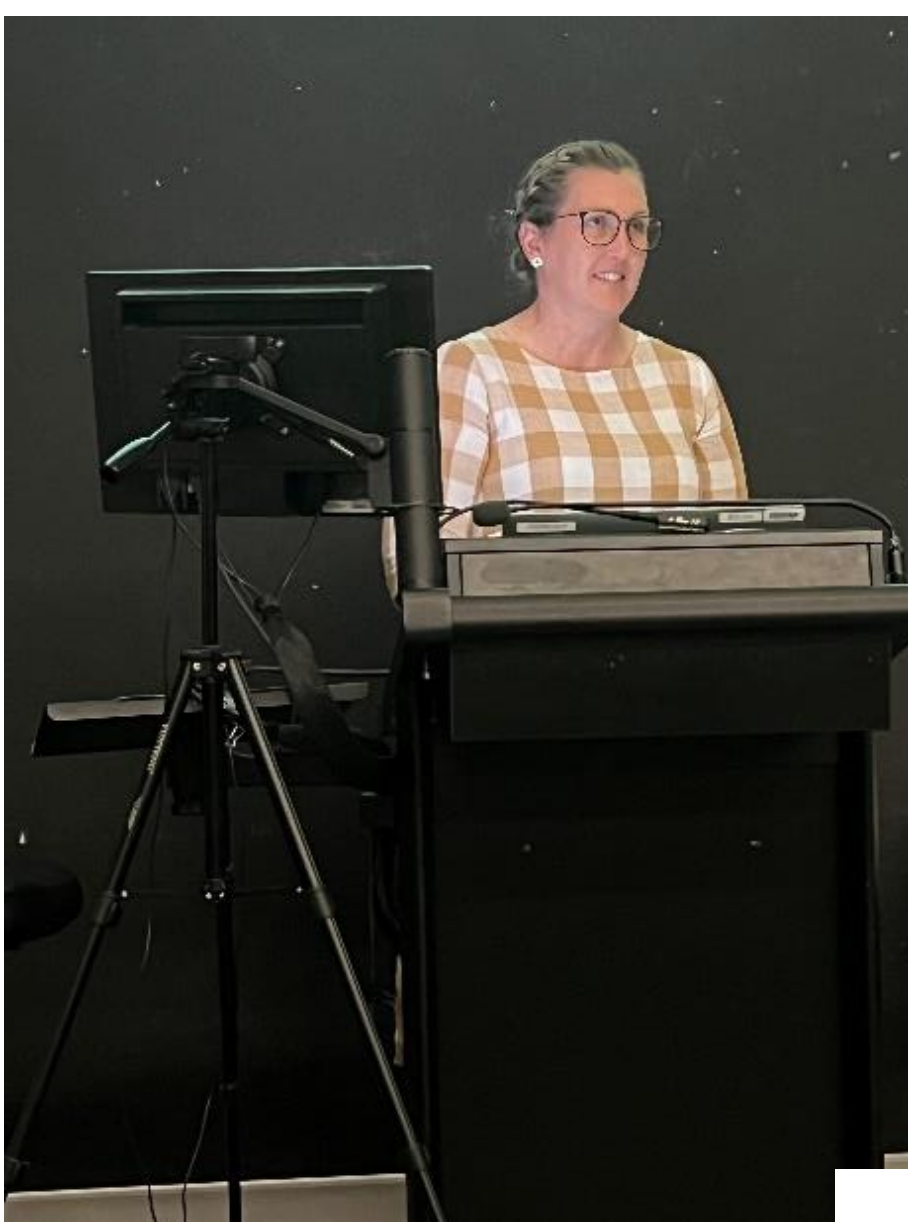
Left: Alana Hogan, RN, Caboolture Hospital

Right: Amanda Balmer, RN, Woodford Corrections Health



Nurses from ICU were part of a multi-site Critical Care Nursing Priority setting study, led locally by Katrina Cook and Dr Mahesh Ramanan, with visiting Nursing Research Fellow, Dr Alison Craswell providing academic support. This study identified the priority areas for research: patient flow through intensive care, patient care through intensive care journey and intensive care patient recovery. Katrina has ongoing involvement in a funded follow-on study supported by Dr Jacqui Peet, University of the Sunshine Coast. The results were published in the Intensive and Critical Care Nursing journal entitled “Establishing critical care nursing research priorities for three Australian regional public hospitals: A mixed method priority setting study.”

Gemma Cockcroft and Alison Craswell published the outcomes of evaluation of a hybrid dedicated education unit for nursing education. In this project, led locally by Gemma, ‘buddy nurses’ on the wards who supervised nursing students on placement were provided with support from facilitators on their wards so they would be better able to support students. The outcomes were overwhelmingly in favour of this model supporting staff who are often the forgotten ones when planning for our future nursing workforce. The outcomes are accepted and in press with the Journal of Nursing Education.



Katrina Cook, Nurse Manager, Caboolture Hospital

Using artificial intelligence to identify aspiration in children with feeding disorders

Caboolture Hospital clinicians will soon use artificial intelligence to help diagnose swallowing impairment and aspiration in children during routine mealtime observations.

Dr Thuy Frakking and her team received Caboolture Hospital's first Medical Research Future Fund (MRFF) grant of more than \$156,000 to undertake the work.

Aspiration, when food or fluids enter the airway, can lead to serious short and long-term disease in children. Current assessments, such as an x-ray swallow for aspiration, are limited by reduced availability and involve the use of radiation.

As a practising paediatric speech pathologist, Dr Frakking was frustrated by the lack of objective and readily repeatable assessments that did not involve radiation exposure for children.

Initially funded by a Metro North Clinician Researcher Fellowship, Adj Assoc Prof Frakking dedicated time to exploring how the swallowing sounds collected during her PhD could be adapted with the latest machine learning techniques to accurately diagnose swallowing impairment and aspiration.

"This is exciting, particularly for children and families where access to paediatric x-ray swallows is not available, including Metro North Health facilities such as The Prince Charles and Redcliffe Hospitals."

Through networks facilitated by Metro North Health, she teamed up with Griffith University

Electrical and Electronic Engineers Dr Belinda Schwerin and Dr Stephen So to see what was possible. Their initial work saw 100 per cent precision in the detection of swallowing impairment and aspiration in children.

Dr Frakking said the MRFF grant funding would allow the team to adapt their developed algorithm to suit swallow sounds collected in clinical environments where there are more noises to work with.

"The development of an accurate algorithm to classify aspiration in children will help progress to the development of an app that families and clinicians can access worldwide without the need for x-ray swallows," Dr Frakking said.

"This Level 1 funded scheme will help support the recruitment of research higher degree students and speech pathologists to Caboolture Hospital – helping to build our research capacity and capability within our directorate."

The project research team comprises a multidisciplinary team of clinicians and academics helping to apply their expertise towards the development of a successful algorithm: Dr Thuy Frakking (Caboolture Hospital), Dr Belinda Schwerin (Griffith University), Dr Stephen So (Griffith University), Assoc Prof Christopher Carty (Griffith University), Assoc Prof Kelly Weir (Melbourne University), Prof Michael David (M&M Statistical Consulting), and Prof Anne Chang (QUT).



L to R: Dr Belinda Schwerin, Dr Stephen So and Dr Thuy Frakking

Informing the use of vasopressor infusion for shock patients at Caboolture Hospital

Safety and efficacy of peripheral versus centrally administered vasopressor infusion: A single-centre retrospective observational study

Caboolture Affiliated Investigators: Dr Annaliese Stolz, Dr Rachel Efendy, Dr Yogesh Apte, Dr Alison Craswell, Dr Mahesh Ramanan

Publication in Australian Critical Care Journal: Stolz A, Apte Y, Craswell A, Lin F, Ramanan M. Safety and efficacy of peripheral versus centrally administered vasopressor infusion: A single-centre retrospective observational study. *Aust Crit Care*. 2022 Sep;35(5):506-511. doi:10.1016/j.aucc.2021.08.005.

This single-centre study at Caboolture Hospital is informing the use of vasopressor infusions for intensive care patients with shock. Shock affects one third of patients admitted to intensive care and is associated with increased mortality. Vasopressor medications are used to maintain blood pressure in shock. Central venous catheters (CVC) are associated with serious complications and pose logistical difficulties for insertion. Delivery of vasopressors via peripheral intravenous cannula (PIVC) may be a safe alternative.

Led by ICU Staff Specialist Dr Yogesh Apte, we conducted a retrospective cohort study of vasopressor infusions at Caboolture ICU. 212 patients were identified, of whom 39 received vasopressors via PIVC only, 155 via PIVC followed by CVC, and 18 via CVC only. There were some baseline differences between groups - most significantly lower illness severity in the PIVC only group. Duration of vasopressor infusion was shortest in the PIVC only group and longer in the other two groups. There were no major complications related to vasopressor delivery in either group. We concluded that administration of vasopressor infusions for a short duration in critically ill patients via a peripheral venous cannula was occurring regularly, with no serious complications, and offered a potentially safe alternative to central venous access.

Our cohort study adds to the available evidence on route of administration of

vasopressors, but most is either low-quality, retrospective, or not relevant to critically ill patients. Clinicians are left with significant uncertainty when faced with the decision of whether to insert a CVC, a procedure with substantial resource, time, and safety implications, or persist with a PIVC for administering vasopressor infusions. High-quality, RCT evidence to determine whether vasopressors can be safely administered via PIVC with equivalent or better clinical outcomes, and superior patient experience and health economic outcomes is thus required and is a research priority.



*Dr Yogesh Apte, Staff Specialist ICU
Caboolture Hospital*

(photo courtesy MNH Research Snapshot)

So, what is next? Dr Apte, Dr Ramanan and Dr Craswell have teamed up with Emergency Department clinicians Dr Thomas Holland, and Stacey Watts to design a single-centre parallel group, feasibility randomised controlled trial, to be conducted across the Emergency Department and Intensive Care Units of Caboolture Hospital.

“We are currently undertaking a pilot feasibility study for a future large multi-centre trial of peripheral versus central delivery of vasopressor infusion,” Dr Apte said.

“In addition to safety aspects of the vasopressor infusions via peripheral venous canula versus central venous line, the study is also going to ascertain patients’ healthcare experience and look for potential cost savings as a result of fewer procedures and a decreased need for expensive equipment.”

The feasibility trial, funded by the Emergency Medicine Foundation, will commence in January 2023.



April Hatt, Clinical Research Nurse Emergency

Emergency Medicine Foundation grant to evaluate clinical and cost outcomes of RADAR RR model

Dr Elizabeth Marsden secured an \$80,000 grant from the Emergency Medicine Foundation to evaluate the clinical and cost outcomes of the Residential Aged Care District Assessment and Referral Rapid Response (RADAR RR) model to determine if it provides equivalent care to that provided by a traditional ED.



Second from left: Dr Elizabeth Marsden

“Given increasing pressure for high value models of care, we will undertake an economic evaluation to determine if the RADAR RR model is more economically efficient than the traditional ED model of care.”

“By providing a right place, right time model of care, it could assist hospitals to utilise alternative care pathways keeping care closer to home,” Dr Marsden said.

“We anticipate the evidence from this project will enable us to create toolkits and guidelines that other state and national health services could utilise for implementation of this new model of emergency care.”

“Through increased awareness and improved understanding of the impact of this innovative, patient and carer-centred model of care, health services will be better informed when considering the benefits and feasibility of scale and spread of the RADAR RR model of care.”

Delirium across Metro North Health

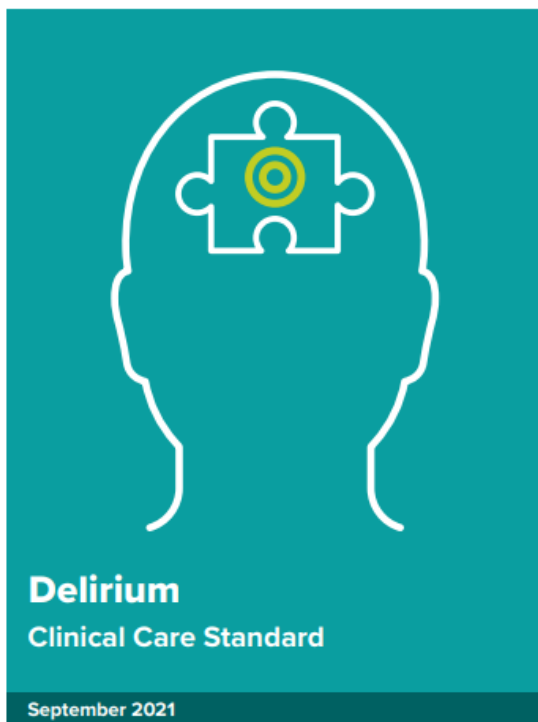
Delirium is common across all MNH facilities (20%) and still under-recognised, with underuse of screening and diagnostic tools. Therefore, better recognition, prevention and management are critical.

Some of this team are partners on a national project that has developed a toolkit for partnering with caregivers in the prevention of delirium led at Caboolture by Visiting Research Fellow Dr Alison Craswell.



Dr Alison Craswell, Visiting Research Fellow (UniUSC)

AUSTRALIAN COMMISSION
ON SAFETY AND QUALITY IN HEALTH CARE



Delirium – Caboolture Hospital participation in the MNH audit

In May 2023, a group of dedicated staff, led by Marguerite Byrnes, audited 115 patients at Caboolture and Kilcoy Hospitals.

This was part of a multisite team across Metro North (MNH) that aimed to audit all overnight beds in MNH on a single day. After a 1 hour training session, our team administered the 4AT screening tool (0 normal, 1-3 cognitive impairment, 4+ probable delirium), spoke to patients and families about delirium information and reviewed inpatient charts.

The mean age was 71 years; 31% had cognitive impairment while another 13% had probable delirium in Caboolture and Kilcoy. Cognitive impairment was found to affect 42% of inpatients across all sites in MNH on a given day, which has major implications for communication, capacity and care workload.

Joint research project breathes new life into nurse training

A research project between Caboolture Hospital and the University of the Sunshine Coast is breathing new life into basic life support training for clinical staff.

All nursing staff at hospitals throughout Queensland are required to do an annual 15-minute 'tick and flick' basic life support (BLS) refresher course to meet minimum requirements.

In 2019, University of the Sunshine Coast Nursing Lecturer Jen Dermer studies BLS training as part of her PhD, which included talking with nurses working on the floor at Caboolture, Redcliffe and The Prince Charles Hospitals about opinions and barriers when instigating and performing BLS, how they felt about current training and what they would like to see included.

Her initial investigations found nurses would benefit from improved BLS training to help them meet the clinical demands of an increasingly busy hospital environment.

Later that year, she started a PhD focused on developing innovative education sessions to improve the confidence and competence of ward-based hospital nurses when performing basic life support.

"When I was starting my PhD at the University of the Sunshine Coast in 2019, I approached Caboolture Hospital Nurse Educator Tracy Zammit to see if she would be keen to help me run two different studies on hospital nurses relating to basic life support," Jen said.

"She was always very helpful with recruiting, advertising and championing the studies for me."

The two studies, now concluded, found that an enhanced BLS course that combined evidence-based practice guidelines and adult learning principles would deliver the best quality care for patients.

It also found that courses should run for an hour with a maximum of six people each.

The new and innovative approach to BLS was put to the Caboolture Hospital Executive, which quickly saw merit in the proposed new course and implemented it for all clinical staff.

The education curriculum is now taught at orientation for all new clinical staff and refreshers are offered each month for existing staff. Metro North Health is investigating whether the new in-depth BLS course could be rolled out at all sites and possibly across Queensland.

"We listened to nurses and developed what come from that," Jen said. "It's purposeful training that helps clinicians to do their job."

The pair presented findings at the Australian Nurse Educators Conference at the Gold Coast and the 2023 Australian Resuscitation Council Conference held in Brisbane, receiving a positive response.

"It's shown that research can blossom when academia and industry team up," Jen said.

Having started her PhD four years ago, Jen is excited her journey is now in the final stages. Thesis revisions, which she is working through now, are the final hurdle.

"Tracy and I are now collaborating to follow up on effects of that intervention. However, we are going to do the research on all health care disciplines, not just nursing."

"The work we were able to do together highlights the importance of inter-disciplinary research, bringing tertiary health care and university academics together to improve the health of the community."

Dermer, J., James, S., Palmer, C., Christensen, M., & Craft, J. (2023). Factors affecting ward nurses' basic life support experiences: An integrative literature review. *International Journal of Nursing Practice*, 29(5), e13120.



Left to right: Tracey Zammit, Nurse Educator & Jen Dermer, Nursing Lecturer UniSC

Pharmacy showcasing research success

Vancomycin therapeutic drug monitoring project

An increase in clinical incidents involving the high-risk antimicrobial vancomycin at Caboolture Hospital prompted investigation into how therapeutic drug monitoring (TDM) was managed. In a joint effort between pharmacy, medicine and the antimicrobial stewardship team, the impact that off-site processing of vancomycin samples had on patient safety was raised and the risk then escalated to Pathology Queensland. This resulted in on-site processing of vancomycin TDM, which commenced at Caboolture Hospital in June 2022. A pre and post implementation review of reporting times showed a significant improvement in median reporting time from 11.13 hours to 1.33 hours. This change in practice allowed TDM results to be reviewed within standard working hours well before the next dose of vancomycin was due.

Collaborative for Allied Health Research, Learning and Innovation (CAHRLI) Local Award 2022

- ★ **Belinda Chappell**, 'Investigating variance in reporting times of vancomycin concentration by availability of on-site therapeutic drug monitoring'

CKW Staff Excellence Awards 2023

- ★ **Belinda Chappell**, Research Award Winner

Society of Hospital Pharmacists Australia (SHPA) Medicines Management conference, December 2022 – Brisbane, QLD

- ★ **Belinda Chappell & Benita Suckling**, Best Poster Winner, Investigating variance in reporting times of vancomycin concentrations by availability of on-site therapeutic drug monitoring

Amy Le, Sara Bruce, Rosa Nguyen, Patrick Heberlein, Michael Blood, Partnered pharmacist medication charting in the Emergency department (oral presentation)

Melinda James, Benita Suckling, Jesseca Eglington, When less is more: medication dose adjustments in low body weight adults (poster)

Zoe Robinson, Amy Le, Benita Suckling, Investigating pharmacy staff awareness of interpreters, Indigenous Hospital Liaison Officers and medication related resources in hospitals (poster)

Society of Hospital Pharmacists Australia (SHPA) Medicines Management conference, December 2023– Cairns, QLD

Sara Bruce, Amy Le, Going number two: An audit of inpatient bowel charts and aperient prescribing – (poster)

CKW Research Symposium, October 2022 – Caboolture, QLD

- ★ **Winner Novice Researcher – Zoe Robinson** Investigating pharmacy staff awareness of interpreters, Indigenous Hospital Liaison Officers and medication-related resources (oral presentation)

- ★ **Winner Research/QI study concept presentations - Benita Suckling**, Trends in opioid dispensing 2008-2018: A Queensland perspective (oral presentation)



Top Left: Sara Bruce & Amy Le, SHPA Conference 2023

Top Right: Zoe Robinson, SHPA conference 2022

Bottom Left: Benita Suckling & Belinda Chappell, SHPA conference 2022

Bottom Right: Zoe Robinson, Best Novice Presenter, CKW Research Symposium

Investigating acute right ventricular dysfunction in the Intensive Care Unit

Right ventricular dysfunction in patients admitted to Australian Intensive Care Units – a pilot study

Caboolture Hospital Investigators:

Dr Ramsy D'Souza, *Staff Specialist Caboolture Hospital ICU* (Chief Investigator) &

Dr Mahesh Ramanan, *Staff Specialist Caboolture Hospital ICU* (Associate Investigator)

Additional Investigators: A/Prof Kiran Shekar, Dr Maithri Siriwardena, Dr Sam Orde

Background/Study Information:

Acute right ventricular (RV) dysfunction is common in critically ill patients. Various pathophysiological processes contributing to hypoxia, hypercapnia and acidosis may contribute to RV dysfunction. The exact prevalence of RV dysfunction in Australian ICUs has not been investigated. The aim of this prospective observational multicentre cohort research is to study the frequency of RV dysfunction and the impact on hospital mortality in Australian intensive care units.

Why was Caboolture chosen as a site?

Caboolture Hospital ICU is a general ICU and admits a variety of patients. Some patients may be predisposed to the risk of developing RV dysfunction due to the nature of their illness leading to the ICU admission. By studying the frequency of RV dysfunction in these patients and its impact on mortality, this study will form the basis of further research on strategies to minimise the risk of developing RV dysfunction and improving the mortality associated with it.

Study Progress:

The is a multicentre study and has involved intensive care units across Australia. The study has recruited 279 patients across these centres and recruitment is not closed. We are in the process of collating the data and analysis will begin soon.

★ Dr Ramsy Dsouza was awarded a New Investigator Grant (\$9766) provided by The Common Good for this study to help support the data collection across Caboolture and The Prince Charles Hospitals.



WELCOME-ICU survey

Staff perceptions of family access and visitation policies in Australian and New Zealand intensive care units: The WELCOME-ICU survey

Caboolture Hospital Investigators:

Rachel Bailey, *Clinical Nurse Consultant*
Caboolture Hospital ICU (Chief Investigator) &

Dr Mahesh Ramanan, *Staff Specialist*
Caboolture Hospital ICU (Chief Investigator)

Other Chief Investigators:

Edward Litton, Nathalie Ssi Yan Kai, Fiona Coyer, Maite Garrouste-Orgeas and Alexis Tabah

Background/Study Information:

Family-centred critical care recognises the impact of a loved one's critical illness on their relatives. Open visiting is a strategy to improve family satisfaction and psychological outcomes by permitting unrestricted or less restricted access to visit their family member in the intensive care unit (ICU). However, increased family presence may result in increased workload and a risk of burnout for ICU staff. The objective of this study was to evaluate ICU staff perceptions regarding visiting hours and family access in ICUs. Secondary outcomes included an evaluation of current visiting policies, witnessed events in ICUs, and barriers to implementing open visiting policies.

Why was Caboolture chosen as a site?

Caboolture Hospital is a large supporter of family-centred critical care and recognises the benefits of a holistic approach to healthcare.

The Caboolture investigators on this project were integral to the methodology, investigation, analysis and writing of this research, with Rachel Bailey being awarded the Peter Hicks Fellowship in 2019 for completing this work.

Impact and Outcomes:

Staff perceived open visiting as beneficial for relatives, but also identified risks to themselves, including increased workload, a risk of burnout, and a risk of occupational violence. Reluctance to change highlights the importance of addressing staff perceptions when implementing an open visiting policy.

Several other studies have accompanied this work as the original aim was to examine visiting policies from the perspectives of the patients and families, staff and the organisation using the ANZICS CCR database, and a point prevalence survey undertaken across Australia and New Zealand ICU.

Publication:

The Welcome ICU contributors, Bailey, R. L., Ramanan, M., Litton, E., Yan Kai, N. S., Coyer, F. M., Garrouste-Orgeas, M., & Tabah, A. (2022). Staff perceptions of family access and visitation policies in Australian and New Zealand intensive care units: The WELCOME-ICU survey. *Australian Critical Care*, 35(4), 383-390.

<https://doi.org/10.1016/j.aucc.2021.06.014>

Anaesthetic staff supporting research

The preoperative renin-angiotensin system antagonists and blood pressure responses during ambulatory procedures (R-Ag)

This prospective cohort study was begun at The Prince Charles Hospital in 2017 by Dr Usha Gurunathan and was extended to include the Caboolture Hospital Day Procedure Unit by site lead Dr Gunjan Chawla, Staff Specialist Anaesthetics. Caboolture Hospital surgery staff recruited over 100 local patients to help answer the question: What is the impact of antihypertensive treatment and preoperative cessation/continuation of angiotensin-converting enzyme inhibitors (ACEIs)/angiotensin II receptor blockers (ARBs) on intraoperative blood pressure changes in patients undergoing ambulatory surgery under general anaesthesia?

With a total of 537 participants recruited across both sites, investigators found that in

their cohort of ambulatory surgery patients, both early and any hypotension occurred more frequently in those on antihypertensives than those not on hypertensives. The full results of this study are published in *Anesthesia & Analgesia*.

Gurunathan, U., Roe, A., Milligan, C., Hay, K., Ravichandran, G., & Chawla, G. (2024). Preoperative Renin-Angiotensin System Antagonists Intake and Blood Pressure Responses During Ambulatory Surgical Procedures: A Prospective Cohort Study. *Anesthesia & Analgesia*, 138(4), 763–774. <https://doi.org/10.1213/ANE.00000000000006728>

Attitudes toward antibiotic use in pregnancy and after birth – A survey of Australian women

In this multicentre survey led by Professor Victoria Eley, the investigators aimed to gain an understanding of the attitudes of post-partum Australian women towards antibiotic use in pregnancy. Caboolture Hospital Staff Specialist, Anaesthetics, Dr Gunjan Chawla, along with RBWH and Redcliffe Hospitals, surveyed over 300 post-partum inpatient women about their perceptions and attitudes toward antibiotic use in pregnancy. The results of this study highlighted that many women were unaware of receiving pre-delivery antibiotics and most had concerns about side effects. This study, published in the *Australian*

& *New Zealand Journal of Obstetrics & Gynaecology*, will help to create guidelines for antibiotic use in pregnancy in the delivery phase and allow for greater communication between the physician and patients about safe antibiotic use in pregnancy.

Black, M., Kothari, A., Chawla, G., Pelecanos, A., Zahumensky, A., McDermott, L., O'Connor, H., Kalma, B., & Eley, V. (2023). Attitudes and awareness of Australian women regarding peripartum antibiotic use: A multicentre survey. *Australian & New Zealand Journal of Obstetrics & Gynaecology*, 63(2), 171-177. <https://doi.org/10.1111/ajo.13587>

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Research grant recipients from Caboolture & Kilcoy Hospitals and Woodford Corrections Health staff

January 2022 – June 2023

Project title	Recipient/s	Grant Name	Funding Body	Grant Amount
Selecting either dialysis or conservative kidney care: A Discrete Choice Experiment to support shared decision making	Dr Louise Purtell & Dr Sameera Senanayake (QUT)	QUT & Metro North Collaborative Research Grants	Metro North Health & QUT	\$50,000
A novel database-integrated platform for conducting randomised clinical trials in intensive care	Dr Mahesh Ramanan & Prof Kevin Laupland (QUT)	QUT & Metro North Collaborative Research Grants	Metro North Health & QUT	\$49,724
Transforming clinical trials in Queensland	Dr Mahesh Ramanan	2022 Metro North Clinical Research Fellow	Metro North Health	
Improving rapid access to care for patients with type 1 diabetes - a needs analysis	Dr Sean Clark	Caboolture Hospital Research Grant	The Common Good	\$19,981
CT scan requests by Nurse Practitioners in the emergency department of a community hospital for presentations of minor trauma and infections including older adults	Mrs Aletta Cowen	Caboolture Hospital Research Grant	The Common Good	\$9,952
Swallowing sounds in premature babies (SUPERB) study	Dr Thuy Frakking, Manuel Bautista, Anne Clayton	Caboolture Hospital Research Grant	The Common Good	\$19,010
SHORT Sensory Profile2 information and relevance to diagnosis of Attention Deficit Hyperactivity (ADHD) and Autism Spectrum Disorder (ASD) in 7-13 year old Australian children	Mrs Annabelle Marozza, Karen Hay, Thuy Frakking	Caboolture Hospital Research Grant	The Common Good	\$10 000
Vasopressor Infusion via Peripheral vs Central Access in patients with shock - The VIPCA randomised controlled feasibility trial	Dr Mahesh Ramanan, Stacey Watts, Dr Alison Craswell	Caboolture Hospital Research Grant	The Common Good	\$20,000
Outcomes of breech birth by mode of delivery across hospitals withing MNHHS: a retrospective observational study	Dr Shahida Rehman, Karen Hay, Thuy Frakking, Dr Alison Craswell	Caboolture Hospital Research Grant	The Common Good	\$ 9 796
Evaluating an innovative model of antenatal care for young, vulnerable mothers	Ms Deborah Sutherland	Caboolture Hospital Research Grant	The Common Good	\$10,000

Project title	Recipient/s	Grant Name	Funding Body	Grant Amount
Diabetes Service Mapping After Hours	Dr Sean Clark	Queensland Research Program - Jumpstart Grant	The Emergency Medicine Foundation (EMF)	\$39,999
Vasopressor Infusion via Peripheral vs Central Access in emergency department patients with shock - The VIPCA RCT	Dr Thomas Holland, Stacey Watts, Dr Alison Craswell	Queensland Research Program - Jumpstart Grant	The Emergency Medicine Foundation (EMF)	\$38,766
Role of audiology in hearing preservation and quality of life for oncology patients undergoing ototoxic chemotherapy	Ms Georgia Lester	RHD Grant	Collaborative for Allied Health Research, Learning and Innovation (CAHRLI)	\$5,000
Standardisation of swallowing sounds in infants and children	Dr Thuy Frakking	Mary McConnel Career Boost Grant (2022)	Children's Hospital Foundation	\$49,814
Post-operative functional recovery in older adults who have undergone emergency noncardiac surgery – a multisite prospective longitudinal cohort study	Dr Alison Craswell	Collaborative Grant	Metro North Health & UniSC	\$50,000
RADAR Emergency Falls and Orthopaedic Residential Model (REFORM) - a program of research	Dr Elizabeth Marsden	2023 Metro North Clinician Research Fellow	Metro North Health	
A structures, process and outcome evaluation of the Residential Aged care District Assessment and Referral Rapid Response (RADAR RR) Model	Dr Elizabeth Marsden	Queensland Research Program - Leading Edge	The Emergency Medicine Foundation (EMF)	\$84,949
Implementation of new tele-audiology service for paediatric cochlea implant patients at Caboolture Hospital	Ms Georgia Lester	2022-2023 AH-TRIP Start-up Funding Grant	Collaborative for Allied Health Research, Learning and Innovation (CAHRLI)	\$7,000
External validation of a classifier for the detection of aspiration in children	Dr Thuy Frakking	2022 Assessment of High-Cost Gene Treatments and Digital Intervention	Medical Research Future Fund (MRFF)	\$156,000

SSA Approved Research projects with CKW listed as a site January - December 2022 (organised by department)

SSA Reference	Full Project Title	Principal Investigator & Affiliation	CKW Site Contact	Department	Sponsor/ Lead Collaborating Institution
SSA/2022/MNHH S/73524	Australasian Resuscitation In Sepsis Evaluation: FLUId or vasopressors In emergency Department Sepsis (ARISE FLUIDS)	Ms Stacey Watts; CKW (CH)	Ms Stacey Watts	Emergency	Monash University
SSA/2022/MNHH S/82350	The healthy gut diet for the prevention of gestational diabetes	Dr Nina Meloncelli; MNH	Dr Nina Melloncelli	Allied Health	UQ
SSA/2022/MNHH S/77266	The BUMP (Bariatric sUrgery and Maternal nutrition in Pregnancy) Study: A prospective cohort study investigating the impact of bariatric surgery prior to pregnancy on maternal and offspring outcomes.	A/Prof Susan de Jersey; RBWH	Ms Taylor Guthrie	Nutrition & Dietetics	N/A - MNH
SSA/2022/MNHH S/74667	REDuced CARBohydrate enteral formula compared to standard care in hyperglycaemic critically ill tube fed patients - a randomised controlled phase II trial (REDCARB)	Mrs Alicia Wiese; Redcliffe Hospital	Mrs Alicia Wiese	Nutrition & Dietetics	UQ
SSA/2022/MNHH S/72517	Sustaining improvements in the management of infants with bronchiolitis - a PREDICT study	Dr Suzanne Kenny; CKW (CH)	Ms Stacey Watts	Emergency	Murdoch Children's Research Institute
SSA/2022/MNHH S/76632	International Point Prevalence Study of Intensive Care Unit Transfusion Practices	Dr Michael Reade; RBWH	Mrs Cheryl Fourie	Intensive Care	Monash University
SSA/2022/MNHH S/82024	DILI in the ICU	Dr Kevin Laupland; RBWH	Dr Kevin Laupland	Intensive Care	N/A - MNH only
SSA/2022/MNHH S/86914	The perspectives and experiences of medical practitioners involved with Voluntary Assisted Dying in Queensland over the course of its legalisation	Dr Andrew Holgate; TPCH	Dr Andrew Holgate	Emergency	QUT
SSA/MNHHS/818 20	Establishing nursing and midwifery Research issUes, BRlght lights and sacred Cows; A cross sectional survey in one Australian health service district (The RUBRIC study).	Prof Fiona Coyer; RBWH	Ms Sally Taranec	Nursing & Midwifery	QUT
58874	Frame Rates in Paediatric Videofluoroscopic Swallow Studies	Dr Thuy Frakking; CKW (CH)	Dr Thuy Frakking	Paediatrics	MNH

SSA/2022/MNHH S/86548	Comparative changes in self-reported confidence and ability in performing basic life support following a targeted, supplemental BLS education session	Mrs Jennifer Dermer; USC	Mrs Jennifer Dermer	Nursing & Midwifery	UniSQ
SSA/2022/MNHH S/86078	GROW Study - Generating Research to improve Outcomes for Women and Children Services	A/Prof Lauren Kearney; RBWH	Dr Lauren Kearney	Women's & Newborn	UniSC
SSA/2022/MNHH S/82273	The Mums & Meals Study: Exploring socioeconomic disadvantage, food insecurity, diet, and the gut microbiome in pregnant women	A/Prof Susan de Jersey; RBWH	Ms Bree Whiteoak	Nutrition & Dietetics	QUT
SSA/2022/MNHH S/74377	The VIPCA Trial: Vasopressor Infusion via Peripheral versus Central Access in patients with shock (The VIPCA Trial) - A randomised controlled feasibility trial	Dr Yogesh Apte; CKW (CH)	Ms Stacey Watts	Emergency	UniSQ
SSA/2022/MNHH S/86998	Post-operative functional recovery in older adults who have undergone emergency non-cardiac surgery – a multisite prospective longitudinal cohort study	Dr Andrew Taylor; RBWH	Dr Alison Craswell	Surgery – Anaesthetics & Preiop	USC
SSA/2022/MNHH S/87213	Motivation for clinical education in Physiotherapists - development of a workforce assessment instrument	Miss Joanna Hargreaves; RBWH	Miss Joanna Hargreaves	Allied Health - Physiotherapy	UQ

SSA Approved Research projects with CKW listed as a site January - June 2023 (organised by department)

SSA Reference	Full Project Title	Principal Investigator & Affiliation	Site Contact	Department	Sponsor/ Lead Collaborating Institution
SSA/2023/MNHH S/88115	Development of a clinical guideline for CT scan requests by Nurse Practitioners in the ED of a community hospital for presentations of minor trauma and infections including older adults	Ms Dimple Charters; CKW (CH)	Ms Stacey Watts	Emergency	SCUH
SSA/2023/MNHH S/91105	Improving rapid access to care for patients with type 1 diabetes - a needs analysis	Dr Sean Clark; CKW (CH)	Ms Stacey Watts	Emergency	UniSC
SSA/2023/MNHH S/86965	Examining the healthcare response at the intersection of domestic and family violence and mental health presentation	Dr Shannon Dhollande; CKW (CH)	Mrs Stacey Watts	Emergency	UniSC
SSA/2023/MNHH S/92008	Liberal versus restrictive phosphate replacement for critically ill patients treated in an intensive care unit: a pilot, cluster, crossover, randomised, controlled trial	Dr Mahesh Ramanan; CKW (CH)	Ms Belinda Chappell; A/Prof Alexis Tabah	Intensive Care	MNH

SSA/2023/MNHH S/84307	Outcomes of breech birth by mode of delivery across hospitals within Metro North Hospital & Health service: a retrospective observational study	Dr Thuy Frakking; CKW (CH)	Dr Thuy Frakking	Nursing & Midwifery Research	UniSC
SSA/2023/MNHH S/88866	Evaluating outcomes from the current implementation of the CHD LIFE model of care versus traditional centralised models of care in Queensland	A/Prof Robert Justo; CHQ	Ms Jenna English	Paediatrics	QUT
SSA/2023/MNHH S/89344	Investigating cognition in people with diabetes-related foot ulcers	A/Prof Christina Parker; QUT	Mr Nimantha Karunathilaka	Allied Health	QUT
SSA/2023/MNHH S/92417	Exploring the Barriers and Facilitators to Patient Discharge Processes in Regional Intensive Care Units	Mrs Kylie Jacobs; Redcliffe Hospital	Mrs Kylie Jacobs	Intensive Care	SCUH
SSA/2023/MNHH S/92176	Time to get moving: Evaluation of an evidence-based, multi-component tailored intervention to improve hospital mobility	Dr Julie Adsett; RBWH	Dr Julie Adsett	Physiotherapy	N/A - Metro North only
SSA/2023/MNHH S/87062	Prediction of catheter associated bloodstream infection in critically ill adults	Dr Jessica Schults; RBWH	Miss Daner Ball	Infectious Disease	UQ
SSA/2023/MNHH S/88658	Information Usage for ICU Decision-Making	Prof Kevin Laupland; RBWH	Ms Tamara Orth	Intensive Care	QUT
SSA/2023/MNHH S/85501	Improving acute heart failure management in general medical inpatients: a mixed methods study	Prof Alison Mudge; RBWH	Prof Alison Mudge	Internal Medicine	Novartis Pharmaceuticals Australia Pty Ltd

Abbreviations

ACU	Australian Catholic University
CH	Caboolture Hospital
CHQ	Children's Health Queensland
CKW	Caboolture & Kilcoy Hospitals and Woodford Corrections Health
GCHHS	Gold Coast Hospital and Health Service
HREC	Human Research Ethics Committee
MNH	Metro North Health

QUT	Queensland University of Technology
QUT	Queensland University of Technology
RBWH	Royal and Women's Hospital
SCUH	Sunshine Coast University Hospital
TPCH	The Prince Charles Hospital
UNSW	University of New South Wales
UQ	University of Queensland
UniSC	University of Sunshine Coast

