

Caboolture and Kilcoy Hospitals and Woodford Corrections Health Service

Research Report

July 2016 – June 2017



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Foreword



I would like to thank all staff for their passion and pursuit of research at Caboolture & Kilcoy Hospitals and Woodford Corrections Health Service. Research is integral to excellence in the clinical care we provide to the patients and families we serve. I am proud to see that research is active across nursing, medical, allied health; and education and training streams. An increasing number of staff have represented our Hospitals well by presenting their work at national and international conferences in the past year.

In 2016/2017, Caboolture & Kilcoy Hospitals and Woodford Corrections Health Service staff attracted over \$200K in competitive research funding. The number of approved research projects and peer-reviewed publications at Caboolture & Kilcoy Hospitals and Woodford Corrections Health Service has steadily increased on a yearly basis. Research collaborations at our facilities are diverse and are linked across universities and hospital and health services. Partners include The University of Queensland, Queensland University of Technology, Griffith University, James Cook University, Mater Hospital, Metro South HHS, Gold Coast HHS, Sunshine Coast HHS, Children's Health Queensland HHS and the Emergency Medicine Foundation.

I would like to commend the work of our formative Research Development Unit over the past year and the leadership provided by Dr Thuy Frakking, our part-time Research Manager.

Finally, I would like to acknowledge Professor Ian Yang, Head of Northside Clinical School (The University of Queensland) for his team's belief and financial support in growing research at our facilities for the past three years. Our research outputs and culture are improving and I look forward to seeing this continue to grow into the future.

I hope that you will find our 2016/2017 Caboolture & Kilcoy Hospitals and Woodford Corrections Health Service Research Report informative and that it encourages you pursue your research endeavours at our facilities.

Dr Lance Le Ray
Executive Director
Caboolture & Kilcoy Hospitals and Woodford Corrections Health Service



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Caboolture & Kilcoy Hospitals and Woodford Corrections Health Service Research Support Personnel



Research Development Unit

The Research Development Unit (RDU) at Caboolture Hospital consists of a small team of 1.4FTE part-time staff, consisting of a research coordinator, senior research fellow, research support officer and a research governance officer. Since its inception in 2014, The RDU has helped to build research capacity through the sourcing of additional research support, sharing of research training opportunities; and the provision of individualised advice to clinicians on research governance, design, evaluation and dissemination.

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Research Governance Officer



The Research Governance Officer, Vanessa Constable, coordinates the site authorisation of research studies undertaken at Redcliffe Hospital, Caboolture-Kilcoy Hospitals and Community & Indigenous Support Services. The Research Governance Officer provides a contact point for questions in regard to research ethics and governance. Early contact with the Research Governance Officer is recommended for staff and external researchers wishing to undertake research at Caboolture Hospital.

Contact Details:
Vanessa Constable
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Caboolture Hospital Library

The Caboolture Hospital Library is located in the Education Centre and provides 24/7 access via proxy card. The Library provides a haven for staff to withdraw to for small group or individual work or study. Onsite resources include a print collection plus Queensland Health and University of Queensland computers with full internet and e-resource capabilities.

Information sources consisting of databases, full-text journals and ebooks, etc are available to staff via the state-wide Queensland Health CKN (Clinicians Knowledge Network) and the Queensland Health Libraries web-portal provides access to print and electronic resources. These resources are all available 24/7 on and off site following initial registration.

Our professional librarian, Jane Orbell-Smith AFALIA (CP) Health, is a health certified librarian. She provides training and assistance to library clients with resources supporting evidence based practice plus client services including literature (evidence) searching, sourcing reference material, and, information literacy.



Contact details:

Jane Orbell-Smith

Ph: 3883 7726

E: RedCabLibrary@health.qld.gov.au.

W: <http://redcab.libguides.com/RedCabLibrary>

*Librarian onsite at Caboolture: 10.30-2.00
Tuesday, Thursday and Friday (subject to other
work commitments).*

QIMR Berghofer Statistics Unit

The QIMR /MNHHS Statistics unit provides a statistical consultancy service to QIMR Berghofer and the Metro North Hospital and Health Service and collaborate in research with clinicians and scientists. Clinicians across MNHHS, including Caboolture and Kilcoy Hospitals, have engaged with the statistics unit to assist with:

- One-on-one research consults : project proposals and grants, study design, data collection, data analysis, presentation and response or rebuttal of reviewers' comments
- Collaborative research projects
- Training courses, workshops & seminars

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Emergency Medicine Foundation



The EMF Research Support Network (RSN) Hub (Wide Bay HHS, Sunshine Coast HHS, Rockhampton, Redcliffe & Caboolture Hospitals) is supported by the mobile Research Development Manager, Julia Hocking. The RSN Mission is to provide leadership and support to Emergency Medicine research by creating an environment that encourages quality research and translation of better ways to save lives in medical emergencies. The RSN aims to:

- Encourage Emergency Medicine research
- Support excellence in Emergency Medicine
- Improve performance in Emergency Medicine research
- Create engaging Emergency Medicine research and innovation
- Build and strengthen Emergency Medicine research capacity and community

Dr Hocking has been working closely with Emergency Department Research Champions Dr Mark Scott and Dr Sean Clark to develop and implement a number of important research ideas, from locally driven projects to national, multi-centre collaborations.

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Featured Research Highlights



The Prickle Babies Study: A pragmatic, multi-centre, parallel design (1:1:1), open, randomised controlled trial to evaluate the effectiveness of a simple short message service (sms) vs tailored sms and home visiting compared to usual parent/carer practice to improve the uptake and timeliness of the primary immunisation series in marginalised children aged less than 7 months

Principal Investigator: Dr Kerry-Ann O'Grady

Caboolture Hospital Investigators/Site Lead: Helen Hine & Kerrienne Gifford

Background

The uptake and timeliness of the primary immunisation series in infancy is critical to preventing infectious diseases morbidity and mortality. There is a high burden of vaccine preventable diseases in Aboriginal and Torres Strait Islander children irrespective of geographic location, however limited attention has been paid to those living in urban and regional settings. Rates are similar for non-Indigenous children living in lower socio-economic settings. The need to improve the timeliness of the primary series has been known for at least 10 years but there has been little change over that time. Recent data from a cohort of Aboriginal and Torres Strait Islander children in Caboolture, Queensland suggests approximately 44% of children have not completed the primary series by 7 months of age, with little differences in this gap between Indigenous and non-Indigenous children in the study. Identifying simple, appropriate and cost effective interventions to improve timeliness is therefore a priority.



This study aims to improve the uptake and timeliness of the primary immunisation series in children living in lower socio-economic and/or regional settings. Specifically it is evaluating the effectiveness of targeted, culturally appropriate short messaging service (SMS) and/or home visiting in improving the uptake and timeliness of the primary immunisation series in children living in lower socio-economic and/or regional settings.

Status Update

Ethics approval for the study was granted from the Queensland Children's Hospital and Health Services HREC and from the Queensland University of Technology Research Ethics Committee. Recruitment commenced in June 2016 in Caboolture and Toowoomba. To date 209 women have been screened, 122 enrolled and 55 babies have been born and 17 have reached 7 months of age. Recruitment is due to be completed in June 2018.

Significance

The study is a partnership between universities, government departments, hospitals and primary health care providers in Caboolture and Toowoomba. It is not only building capacity in research but, if successful, will provide a simple, cost-effective model that can be widely implemented to improve immunisation uptake and timeliness in children in disadvantaged communities.

Outputs

The study was presented at the Children's Hospital Foundation Research Advisory Committee Meeting.



Collaboration for Hospitalised elders: Reducing the Impact of Stays in Hospital (CHERISH)

Principal Investigator: Dr Alison Mudge

Caboolture Hospital Investigators/Site Lead: Dr Iain Borthwick

Background

Eat Walk Engage is a complex multi-component intervention with structured implementation, which has shown reduced geriatric syndromes and length of stay in pilot studies at one hospital. This study will test effectiveness of implementing Eat Walk Engage using a multi-site cluster randomised trial to inform transferability of this intervention.

Status Update

Study recruitment is complete.

Significance

Reduced stay in hospital and reduced complications for older patients admitted to acute hospital wards.

Outputs

Mudge, AM, Banks, MD, Barnett, AG, Blackberry, I, Graves, N, Green, T, ... & Lim, K. (2017). CHERISH (collaboration for hospitalised elders reducing the impact of stays in hospital): protocol for a multi-site improvement program to reduce geriatric syndromes in older inpatients. *BMC geriatrics*, 17(1), 11.





The Value of Avoiding the Pain of IV Failure: Using willingness to pay to establish patient preferences of peripheral intravenous catheter securement in an Australian Emergency Department

Principal Investigator: Dr Mark Scott

Caboolture Hospital Investigators/Site Lead: Dr Mark Scott

Background

Emergency Medicine Foundation funded research project establishing what values patients would put on not having to have an IV resited due to IV failure. This is a patient centred approach to cost effectiveness analysis of using superglue to prevent IV failure.

Status Update

Survey complete. Study now in statistical analyses and write up phase.

Significance

To establish whether the cost of superglue is justified for the benefit of avoiding IV resites.

Method 1



Transparent dressing

Method 2



Transparent dressing + skin glue



Observational Research in Childhood Infectious Diseases (ORChID)

Principal Investigator: Professor Keith Grimwood

Background

The ORChID study is a community-based birth cohort study of respiratory and gastrointestinal infections in the first 2 years of life.

Status Update

- Recruitment completed: September 2010-October 2012 – 165 subjects
- Data and specimen collection from subjects completed: September 2010-November 2014 – 88,000 person-days of observation recorded, >22,000 swab specimens collected
- Laboratory and data analyses – ongoing
- Caboolture Hospital – 2 subjects presented to Caboolture Hospital during their 2 year period of follow-up, the medical chart of only one was available and has now been reviewed to learn of the reasons for their presentation
- Currently, we have one manuscript being revised and another three that will be submitted during the next two months. The data obtained from the chart review conducted at Caboolture Hospital will help inform a subsequent manuscript planned for later this year describing the community health burden of viral respiratory infections in the first two years of life.

Significance

By using daily symptom diaries and modern molecular-based detection techniques we have been able to monitor intensively the nature, types and frequency of viral respiratory and gastrointestinal infections during the first 2yrs of life. This has included making disease-pathogen associations allowing us to identify the most important respiratory virus infections and the impact of rotavirus vaccines at a community level. This has important public health implications for planning future vaccines and other health interventions. At the same time the ORChID cohort is being followed annually throughout childhood to examine the impact of early virus infections upon subsequent lung health and lung function, while the biobank is being interrogated to identify the mechanisms of bacterial colonisation and virus-bacteria interactions in the upper airways.

Outputs

Lambert SB, Ware RS, Cook AL, Maguire FA, Whiley DM, Bialasiewicz S, MacKay IM, Wang D, Sloots TP, Nissen MD, Grimwood K. Observational Research in Childhood Infectious Disease (ORChID): a dynamic birth cohort study. *Brit Med J Open* 2012; 2: e002134.

Alsaleh AN, Whiley D, Bialasiewicz S, Lambert SB, Ware RS, Nissen MD, Sloots T, Grimwood K. Using nasal swab samples and real-time PCR for community-based studies of respiratory viruses: the importance of sample integrity and quality control. *BMC Infect Dis* 2014; 14: 15.

Alsaleh AN, Grimwood K, Sloots TP, Whiley DM. A retrospective performance evaluation of an adenovirus real-



time PCR assay. *J Med Virol* 2014; 86:795-801.

Rockett RJ, Bialasiewicz S, Mhango L, Gaydon J, Holding R, Whiley DM, Lambert SB, Ware RS, Nissen MD, Grimwood K, Sloots TP. Acquisition of human polyomaviruses in the first 18-months of life. *Emerg Infect Dis* 2015; 21: 365-367.

Sarna M, Alsaleh A, Lambert SB, Ware RS, Mhango LP, Mackay IM, Whiley DM, Sloots TP, Grimwood K. Respiratory viruses in neonates: a prospective, community-based birth cohort study. *Pediatr Infect Dis Journal* 2016; 35: 1355-1357.

Sarna M, Ware RS, Sloots TP, Nissen MD, Grimwood K, Lambert SB. The burden of community-managed acute respiratory illness in the first 2-years of life. *Pediatr Pulmonol* 2016; 51: 1336-1346.

Ye S, Whiley DM, Ware RS, Sloots TP, Kirkwood CD, Grimwood K, Lambert SB. Detection of viruses in weekly stool specimens collected during the first 2-years of life: a pilot study of five healthy Australian infants in the rotavirus vaccine era. *J Med Virol* 2017; 89: 917-921.



PHEEM-Q-ICU: Evaluating the educational environment in Queensland Intensive Care Units using the Postgraduate Hospital Educational Environment Measure

Principal Investigator: Dr Melita Trout

Background

The study is applying a reliable and valid measure of the educational environment to Queensland ICUs. Junior doctors will rate their perception of the support, autonomy and learning opportunities that they receive during an ICU rotation. Comparisons include regional versus metropolitan Queensland and intensive care versus other speciality vocational trainees.

Status Update

The PHEEM- Q-ICU study has completed data collection and is at the data analysis and manuscript preparation stage for submission to a postgraduate medical education journal.

Significance

Educators may choose to adopt the PHEEM inventory as a way to ensure they are meeting the needs of learners and to judge the effects of implemented change in their workplace.



Discharge planning in public hospitals in Hong Kong and Australia: How does it work and how cost-effective is it?

Principal Investigator: A/Prof Tracy Comans

Caboolture Hospital Investigators/Site Lead: Brooke Cowie



Background

The research aims to understand how the discharge planning process works in your ward/team so that we can compare this to others teams in Metro North and internationally in Hong Kong. Some of the aspects we looked at included:

- Who is involved?
- What are their roles?
- How does the communication work?

Status Update

The project data collection is complete. Currently the project is undertaking final analysis and dissemination of results.

Significance

Caboolture staff are using the results to improve discharge planning processes particularly as new wards come online.

Outputs

- Conference abstract has been submitted to the Australian Health Services Conference to be held in November.
- Local presentations have been made to Caboolture Hospital and TPCH Allied Health, Nursing and Medical Managers and a written report was provided to both facilities.
- Outcomes paper currently being drafted and will be submitted later this year.
- Follow-up grant was submitted to the Health and Medical Research Fund (HMRF) of the Food and Health Bureau, Government of Hong Kong SAR. Title: "IT-supported discharge planning in Rehabilitation Centres: Does it improve team interaction, reduce avoidable hospitalization, and decrease resources use in the community? A mixed method study"



Older Person Friendly Hospital: Understanding barriers and enablers for care in Brisbane hospitals

Principal Investigator: Dr Adrienne Young

Background

The qualitative research study aims to understand gaps in evidence-based care of older inpatients. This study will use interviews with decision makers, senior clinicians, researchers, consumer representative and academics from a range of disciplines that are involved in health service provision, policy, research and/or teaching and training. Data from the interviews will inform knowledge translation by gaining an understanding of barriers and enablers to care of older inpatients, identifying existing capabilities and resources, and prioritising areas for improvement.

Status Update

Recruitment and data collection have been completed with 20 respondents (2 staff members from Caboolture). Data is currently being analysed.

Significance

It is our plan for this work to form the basis of developing local and statewide action plans for teaching and training, service delivery and research around better care for older people.

Outputs

This work has been presented locally (e.g. RBWH Frail Older Person Action Group, MNHHS Older Person Healthcare Plan Steering Group) with plans for broader dissemination (Brisbane Diamantina Health Partners Aging Theme, combined Statewide Older Person Health Clinical Network and Statewide General Medicine Network Forum). Plan to present at RBWH research symposium and submit abstracts to AAG, IMSANZ, and write-up results in two publications.



Strategies to Support Women and Clinicians to Engage in Shared Decision Making about Timing of Hospital Admission on Labour

Principal Investigator: Yvette Miller

Caboolture Hospital Investigators/Site Lead: Anne Clayton

Background

Hospital admission during early labour is common and associated with longer hospital stays, misdiagnosed slow labour progress and over-use of obstetric intervention compared with admission in active labour. There is limited research into clinical or patient interventions to reduce premature admission and no previous work in Australia.

We introduced three decision-making tools designed to reduce premature admission in labour (a patient decision aid and clinical assessment forms for telephone and hospital presentation). We evaluated their impact on prevalence of premature admission (<4cm cervical dilation at admission), maternal and neonatal clinical outcomes, obstetric intervention and use of hospital resources. We also assessed the adherence to implementation guidelines and acceptability of the patient tool.

Status Update

Data collection has been completed. See figure 1 below.

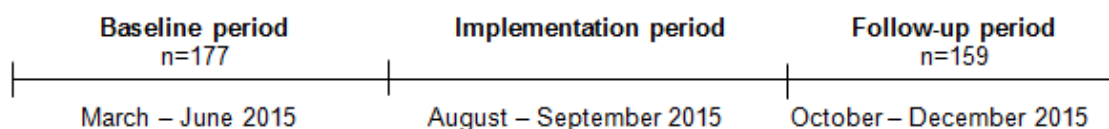


Figure 1. Project timeline

Significance

There was no evidence of impact of the three introduced decision making tools on rates of admission in early labour (premature admission) or any associated maternal or neonatal outcomes. There was a decrease in the number of telephone calls made by women, which indicates potential for the tools to reduce health service costs within a very limited scope of impact.

There was evidence of poor implementation of all of the tools, in particular for the presentation assessment tool. Improved implementation strategies may lead to further decreases in early admission. The lack of adherence to tool delivery (for the patient tool) and use among clinicians has meant that the potential impact of the tools on the outcomes assessed here cannot be adequately determined.

Findings have not resulted in any policy or guideline change.

The clinician tools implemented as part of this trial have continued to be used at Caboolture Hospital. Dissemination of patient decision aid has not continued beyond the trial due to resource limitations (it remains



accessible on the Hospital website).

Outputs

Several publications are in preparation including a protocol paper, outcomes paper and cost-effectiveness paper.

The following presentations have been made or are planned:

- Soliday, E., Thompson, R., Stevens, G., Strahm, A., & Armanasco, A. (2015, October). *Patient-Centered Communication, the Evidence Base, and Shared Decision Making in Perinatal Care*. Symposium presented at the 13th International Conference on Communication in Healthcare, New Orleans, USA.
- A presentation will be made to Caboolture Hospital staff detailing results





Implementation of Safewards and Brøset to Secure Mental Health Rehabilitation Units

Principal Investigator: Clinical Associate Professor Lisa Fawcett

Caboolture Hospital Investigators/Site Lead: Sarah Widin

Background

To determine the effect of introducing the Safewards program together with the Brøset Violence Checklist to Secure Mental Health Rehabilitation Units of Queensland public hospitals.

Status Update

Pre-implementation survey completed.

Significance

The Safewards program has identified many of the important factors in conflict and containment generation and suggests some alternative approaches to mental health care that will help develop viable nursing plans to keep consumers safe.

Outputs

Fawcett, L., Higgins, N., Dart, N., Meehan, M. and Kilshaw, M. (2016). Staff perceptions of Safewards across three inpatient mental health units. *International Journal of Mental Health Nursing*, 25(S1),17.





Cardiovascular outcomes after Type 2 Myocardial Infarction: A retrospective, single centre, observational study at a Regional teaching hospital (RTH)

Principal Investigator: Nyasha Magoche

Caboolture Hospital Investigators/Site Lead: Nyasha Magoche, Chee Y Lee, Steven Garrard, Jamil Ahmed

Background

This study aims to evaluate: 1) the occurrence of cardiovascular sequelae and 2) mortality of patients diagnosed with type 2 myocardial infarction in the period between 01 January 2012 and 30 June 2012.

Status Update

HREC approved for Low to Negligible Risk. Data collection and analysis completed.

Significance

The findings of subsequent outcomes and investigations on patients diagnosed with type 2 myocardial infarction may help guide how these patients are managed at the time of their type 2 myocardial infarction. Currently the management is left to the individual clinician's discretion and optimum management remains uncertain for this condition that is associated with high mortality.

Outputs

Magoche, N. (2017, August). *Cardiovascular outcomes after Type 2 Myocardial Infarction. A retrospective, single, centre, observational study at a regional teaching hospital.* 65th Annual Scientific Meeting of the Cardiac Society of Australia & New Zealand, Perth, WA.





Caboolture & Kilcoy Hospitals and Woodford Corrections Health Services Approved Research Projects

July 2016 – June 2017. *Please note only full HREC research projects are listed below.*

HREC/SSA #	Investigator/ Site Contact	Research Title	Stream	Affiliation/ Collaboration
HREC/16/QPCH/149 SSA/16/QNRC/46	Bernadette Watson Roxanne Machen	'Communication and Patient Safety' training for Caboolture and Kilcoy Hospital staff; and evaluation	Education and Training	University of Queensland
HREC/14/QRBW/177 SSA/16/QNRC/1	James Morong Mahilal Ratnapala	A Comparative Study of In-Hospital Maternal Mortality Ratio (MMR) between the United States of America and Australia	Maternity	University of Queensland
HREC/16/QRCH/53 SSA/16/QNRC/47	Kerry-Ann O'Grady Helen Hine	A pragmatic, multi-centre, parallel design (1:1:1), open, randomised controlled trial to evaluate the effectiveness of a simple short message service (sms) vs tailored sms and home visiting compared to usual parent/carer practice to improve the uptake and timeliness of the primary immunisation series in marginalise children aged less than 7 months	Maternity	Children's Health Queensland HHS
HREC/16/QPCH/37 SSA/16/QNRC/35	Rohan Grimely Theresa Green Leonie Giffney	Building efficient and equitable pathways to and through rehab in stroke	Rehabilitation	Sunshine Coast HHS
HREC/15/QRCH/244 SSA/16/QNRC/19	Richard Lister Shane Rebgetz	Can family based treatment for anorexia nervosa be effectively delivered through video conferencing?	Mental Health	Children's Health Queensland HHS
HREC/16/QPCH/34 SSA/16/QNRC/25	Tracey Comans Brooke Cowie	Discharge planning in public hospitals in Hong Kong and Australia: How does it work and how cost-effective is it?	Multi-disciplinary	Griffith University
HREC/16/QPCH/202 SSA/16/QNRC/57	Barbara Page Ian Yang	Efficiency and user satisfaction in the implementation of voice recognition software into clinical communications	Outpatients	Queensland Health
HREC/16/QTHS/107 SSA/16/QNRC/49	Robyn Aitken Virginia Skinner	Evaluating organizational cultural Competence in Maternity Care for Aboriginal and Torres Strait Islander Women	Maternity	Northern Territory Government
HREC/16/QTHS/107 SSA/16/QNRC/49	Melita Trout	Evaluating the educational environment in Queensland Intensive Care Units using the Postgraduate Hospital Educational Environment Measure	ICU	James Cook University
HREC/16/QRCH/60 SSA/16/QNRC/30	Anthony Herber Susan Johnson	Evaluating the impact of Paediatric Palliative Care Education Modules delivered to Health Professionals	Paediatrics	Children's Health Queensland HHS



HREC/16/QRBW/215 SSA/16/QNRC/38	Lisa Fawcett Sarah Widin Niall Higgins Stephen Luke	Implementation of Safewards and the Brøset Violence Checklist to secure psychiatric rehabilitation units	Mental Health	The Royal Brisbane and Women's Hospital
HREC/15/QPCH/273 SSA/16/QNRC/4	Megan Young Mary Barnett	Improving rates of vaccination in pregnancy	Maternity	Metro South HHS
HREC/16/RCHM/84 SSA/17/QNRC/5	Ed Oakley Lisa Kane	Knowledge Translation in Australasian Paediatric Acute Care Settings: a multi-centred, cluster, randomised controlled trial comparing a tailored, theory informed Knowledge Translation intervention versus passive dissemination of a bronchiolitis guideline	Emergency and Paediatrics	Murdoch Childrens Research Institute
HREC/10/QRCH/16 SSA/16/QNRC/40	Keith Grimwood Minda Sarna	Observational research in childhood infectious diseases study	Paediatrics	Children's Health Queensland HHS
HREC/16/QRBW/485 SSA/16/QNRC/55	Adrienne Young Alison Mudge Ruth Hubbard	Older person friendly hospital: understanding barriers and enablers to care of older people in Brisbane hospitals	Aged Health Care	Queensland Health
HREC/16/QRBW/27 SSA/16/QNRC/28	Susan Patterson Kylie Garrick	Optimising delivery of group based interventions in Public Mental Health Services	Mental Health	Griffith University
HREC/16/QRCH/275 SSA/17/QNRC/12	A/ Prof Raymond Chan Louisa Gordon Raymond Chan	Queensland Nurse Navigator Program Evaluation Pilot Study	Multi-disciplinary	Queensland University of Technology
HREC/16/QPCH/362 SSA/17/QNRC/4	Nyasha Magoche Jamil Ahmed	Retrospective study of cardiovascular outcomes after Type 2 Myocardial Infarction at a peripheral hospital – 4 year follow-up	Multi-disciplinary	Queensland Health
HREC/16/QPCH/138 SSA/16/QNRC/21 SSA/16/QNRC/22	Mridula Mokoonlall Henry Marshall	Smoking behaviour among Metro North Hospital and Health Services (MNHSS)	Medicine	The Prince Charles Hospital
HREC/15/QPCH/283 SSA/17/QNRC/7	Annabel Hickey Vicki Tilby Freya Huebler	Telephone peer mentoring program for patients with chronic heart failure	Nursing	Queensland Health
HREC/16/QPAH/15 SSA/16/QNRC/26	John McGrath George Bruxner	The efficacy of adjunctive <i>Garcinia mangostana</i> Linn for the treatment of Schizophrenia: a 24 week double-blind, randomised, placebo controlled trial	Mental Health	University of Queensland
HREC/15/QPCH/91 SSA/16/QNRC/12	Mary Fenech Carol Windsor	The role of the Nurse Practitioner in a large Tertiary Facility: A critical Ethnography	Nursing	Queensland University of Technology
HREC/16/QPCH/137 SSA/16/QNRC/43	Mark Scott	The Value of Avoiding the Pain of IV Failure: Using willingness-to-pay to establish patient preferences for peripheral intravenous catheter securement in an Australian ED	Emergency Medicine	Emergency Medicine Foundation



Additional Active and/or Completed Research Projects

July 2016 – June 2017 *Please note only full HREC research projects are listed below.*

HREC/SSA #	Investigators/ Site Contact	Research Title	Stream	Affiliation/ Collaboration
HREC/13/QPCH/200 SSA/17/QNRC/47	Susan Patterson Anand Choudhary	An investigation of the current practice, and expectations of specialist mental health services in relation to monitoring and managing the physical health of people using their services	Mental Health	Metro South HHS
HREC/15/QRBW/95 SSA/15/QNRC/41	Alison Mudge Ian Borthwick	Collaboration of Hospitalised Elders: Reducing the Impact of Stays in Hospital (CHERISH)	Geriatrics	Queensland University of Technology
HREC/14/QPCH/30 SSA/15/QNRC/20	Brooke Cowie	Development and validation of a high level language screening tool for acute stroke populations	Speech Pathology	Queensland Health
HREC/15/QNRC/356 SSA/15/QNRC/36	Helen Edwards	Effectiveness of a Gynaecology Physiotherapy Screening Clinic (GPSC) in improving health outcomes and access to care for women on gynaecology outpatient waiting lists	Physiotherapy	Queensland Health
HREC/14/QPCH/242 SSA/15/QNRC/1	Anne Clayton	Evaluating Service Delivery Changes to Improve the Timing of Hospital Admission in Labour	Obstetrics and Gynaecology	Queensland University of Technology
HREC/17/QRBW/9 SSA/17/QNRC/25	Nina Meloncelli Susan de Jersey Adrian Barnett	Examining the management of gestational diabetes mellitus	Obstetrics and Gynaecology	Queensland University of Technology
HREC/16/QPCH/314 SSA/16/QNRC/50	Swarada Kotkar	Exploring the awareness of clinical coding amongst junior medical workforce	Medical Education	Queensland Health
HREC/13/QRCH/93 SSA/14/QNRC/17	Prasanna Shirkhedkar	High Flow Nasal Cannula Treatment for Viral Bronchiolitis, a Randomised Controlled Trial	Paediatrics	University of Queensland
HREC/13/QPAH/601 SSA/15/QNRC/35	Suzanne Chambers Boris Strekozov	Improving access to psychological services for people with cancer: A randomised controlled trial of an interactive web-based intervention	Cancer	Griffith University
HREC/15/QRBW/40 SSA/15/QNRC/10	Susan Patterson Anna Praskova	Increasing efficiency of randomised controlled trials: comparative case studies to optimise recruitment in mental health and cancer care	Mental Health	Queensland Health - Cancer Care
HREC/16/QRCH/83 SSA/17/QNRC/24	Ben Lawton Peter Snelling	PRE-Scripted debriefing for Paediatric simulation associated with resuscitation education	Paediatrics	Children's Health Queensland HHS
HREC/17/QPCH/6 SSA/17/QNRC/19	Susan Patterson Jordan Duncan	Promoting sustainable engagement: a mixed methods study of the work-lives, engagement and health of operational, administrative and support staff working in mental	Mental Health	Queensland Health



		health care		
HREC/14/MHS/20 SSA/15/QNRC/33	Michael Beckmann Mahilal Ratnapala	Prostaglandin Inpatient induction of labour Compared with BALLOON Outpatient induction of labour: a randomised controlled trial (The PINC BALLOON study)	Obstetrics and Gynaecology	Mater Hospital
HREC/16/QRBW/410 SSA/17/QNRC/20	Christopher Freeman Holly Foot Timothy Dunn	Reducing Medical Admissions Into Hospital through Optimising Medicines: A model of general practitioner and pharmacist collaboration (The REMAIN HOME study)	Pharmacy	University of Queensland
HREC/14/QRCH/111 SSA/15/QNRC/4	Margaret McElrea Alex Toth	Reference values for spirometry and fractional exhaled nitric oxide (FeNO) in Aboriginal and Torres Strait Island children and young adults	Paediatrics	Queensland Health
HREC/12/QGC/189 SSA/14/QNRC/33	Anthony Bell Chris Johnstone	State-wide Workforce and Activity-Based Funding (ABF) Modelling for Queensland Emergency Departments	Emergency Medicine	Queensland University of Technology

Conference Presentations

Completed or accepted conference, seminar, and workshop presentations involving Caboolture & Kilcoy Hospitals and Woodford Corrections Health Service staff between June 2016 to July 2017

Dibia, U. (2017, March). *Retrospective observational study of acute stroke thrombolysis at a secondary healthcare centre in Queensland, Australia*. Internal Medical Society of Australia and New Zealand, Wellington, NZ.

Edwards, H. (2017, August). *Gynaecology Physiotherapy Screening Clinics Improve Access to Care and Health Outcomes for Women on Gynaecology Waiting Lists*. 12th National Allied Health Forum, Sydney, NSW.

Edwards, H. (2017, September). *Gynaecology Physiotherapy Screening Clinics Improve Access to Care and Health Outcomes for Women on Gynaecology Waiting Lists*. International Continence Society 47th Annual Meeting, Florence, Italy.

Frakking, T. (2017, May). *Acoustic and perceptual sound profiles of swallowing sounds in children: Normative data for 4-36 months from a cross-sectional study cohort*. Speech pathology Australia 2017 National Conference, Sydney, NSW.

Frakking, T. (2017, May). *Aspirating and non-aspirating swallow sounds in children: A pilot study*. Speech pathology Australia 2017 National Conference, Sydney, NSW.

Greitschus, J. (2017, October). *Gynaecology Physiotherapy Screening Clinics Improve Access to Care and Health Outcomes for Women on Gynaecology Waiting Lists*. Momentum 2017 Physiotherapy Conference, Sydney, NSW.

Magoche, N. (2017, August). *Cardiovascular outcomes after Type 2 Myocardial Infarction. A retrospective, single, centre, observational study at a regional teaching hospital*. 65th Annual Scientific Meeting of the Cardiac Society of Australia & New Zealand, Perth, WA.

Miller, YD., Armanasco, A., Thompson, R., Bechmann, M., & Clayton, A. (2017, July). *Strategies to Support Women and Clinicians to Engage in Shared Decision Making about Timing of Hospital Admission in Labour*. Poster presented at the 9th International Shared Decision Making Conference, Lyon, France.

Millichamp, T. (2017, October). *Effective emergency to ward patient handovers: employing a patient transfer form to standardise communication practice within a regional hospital*. International College of Emergency Nursing, Sydney, NSW.

Nucifora, J. (2017, November). *Gynaecology Physiotherapy Screening Clinics Improve Access to Care and Health Outcomes for Women on Gynaecology Waiting Lists*. 26th National Conference on Incontinence, Sydney, NSW.

Pinto De Menezes, NF. (2017, August). *Incidence of Premature Coronary Artery Disease. A retrospective study in patients presenting with chest pain*. 65th Annual Scientific Meeting of the Cardiac Society of Australia & New Zealand, Perth, WA.



Grants

The following were the recipients of research grants between July 2016 and June 2017

Project title	Chief Investigator	CH Investigators	Granting Agency	Total Funding Awarded	Grant Type
Effectiveness of a Gynaecology Physiotherapy Screening Clinic (GPSC) in improving health outcomes and access to care for women on gynaecology outpatient waiting lists	Helen Edwards	Helen Edwards	Health Practitioner Research Scheme	\$21,448	Novice Research Grant
A randomised controlled study to evaluate an integrated care pathway for children with chronic conditions – connecting the dots in healthcare provision	Thuy Frakking	Thuy Frakking John Waugh Hsien-Jin Teoh Donna Ward	Allied Health Professions of Queensland (AHPOQ)	\$152,704	Research Grant
The value of avoiding the pain of IV catheter failure	Mark Scott	Mark Scott	Emergency Medicine Foundation	\$30,550	Staff Specialist Grant

Publications

Caboolture & Kilcoy Hospitals Affiliated Publications between July 2016 to June 2017

Bugden, S, Shean, K, Scott, M, Mihala, G, Clark, S, Johnstone, C, Fraser, JF, & Rickard CM. (2016). Skin glue reduces the failure rate of emergency department-inserted peripheral intravenous catheters: a randomized controlled trial. *Annals of Emergency Medicine*, 68(2), 196-201. doi: 10.1016/j.annemergmed.2015.11.026

Bidarmaghz, B, Shekhar, Ai, & Hendaheewa, R. (2016). Sigmoid endometriosis in a post-menopausal woman leading to acute large bowel obstruction: A case report. *International Journal Of Surgery Case Reports*, 28, 65-67. doi: 10.1016/j.ijscr.2016.09.008

Cristaudo, AT, Mizumoto, R, & Hendaheewa, R. (2016). The impact of temporal artery biopsy on surgical practice. *Annals Of Medicine And Surgery* (2012), 11, 47-51.

Frakking, TT., Chang, AB., O'Grady, KF., David, M, & Weir, KA. (2016). Reliability for detecting oropharyngeal aspiration in children using cervical auscultation. *International Journal Of Speech-Language Pathology*, 1-9. doi: 10.1080/17549507.2016.1222452

Frakking, TT., Chang, A B., O'Grady, KF., Yang, J, David, M, & Weir, KA. (2016). Acoustic and Perceptual Profiles of Swallowing Sounds in Children: Normative Data for 4-36 Months from a Cross-Sectional Study Cohort. *Dysphagia*, 32(2), 261-270.

Frakking, T, Chang, A, O'Grady, K, David, M, & Weir, K. (2016). Aspirating and Nonaspirating Swallow Sounds in Children: A Pilot Study. *The Annals Of Otology, Rhinology, And Laryngology*, 125(12), 1001-1009.

Gray, Co, Christensen, M, & Bakon, S. (2016). Nurse-initiated and criteria-led discharge from hospital for children and young people. *Nursing Children And Young People*, 28(8), 26-29.

Mizumoto, R, Cristaudo, AT., Lai, NK, Premaratne, G, & Hendaheewa, R. (2016). Dilemma of mucosal appendicitis: a clinico-pathological entity? A retrospective cohort study. *ANZ Journal Of Surgery*. doi: 10.1111/ans.13820

Morphett, K, Carter, A, Hall, W, Lucke, J, Partridge, B and Gartner, C (2017). Do neurobiological understandings of smoking influence quitting self efficacy or treatment intentions? *Nicotine & Tobacco Research*. doi: 10.1093/ntr/ntx144

Ng, F, Scott, JG., & Bruxner, G. (2016). Antineuronal antibody screening in early onset-cognitive decline. *The Australian And New Zealand Journal Of Psychiatry*.



Partridge, B, & Affleck, J. (2017). Verbal abuse and physical assault in the Emergency Department: rates of violence, perceptions of safety, and attitudes towards security. *Australasian Emergency Nursing Journal*, doi:10.1016/j.aenj.2017.05.001

Shekhar, A, Cristaudo, A, & Hendaheva, R. (2016). Do gastroenterologists find more proximal serrated adenomas than surgeons? A retrospective comparative study. *Journal of Gastroenterology and Hepatology (Australia)*, 31, 22. doi: 10.1111/jgh.13516

Shekhar, A, Hendaheva, R, Jayanna, M, & Ratnayake, S. (2016). Bizarre cause for abdominal pain in a young female. *ANZ Journal Of Surgery*. doi: 10.1111/ans.13707

Yaxley, J, & Pirrone, C. (2016). Review of the Diagnostic Evaluation of Renal Tubular Acidosis. *The Ochsner Journal*, 16(4), 525-530.



In the News

MNHHS-Research Staff Bulletin and Caring Together Newsletter Research Highlights



IV Lines evaluation on the way

IV lines (drips) are the most common medical procedure in our hospitals. However, within two days up to 40% need replacing.

If you've had this done, you know it's painful. It's also expensive, costing Australian Hospitals about \$200 million a year.

A team led by Caboolture Hospital Emergency Physician Dr Mark Scott have been awarded an EMF grant of over \$30,000 to carry out an economic evaluation of using superglue instead of sticky tape to hold IV lines in place more securely.

Caboolture Hospital will collaborate with Griffith University to determine the potential savings to the Australian healthcare system.

Research Roundup

Congratulations to Dr Uzo Dibia, Staff Specialist at Caboolture Hospital, for his recent poster presentation at the 2017 Internal Medicine Society of Australia and New Zealand.

Dr Dibia's research focused on determining which patients are most effectively treated with acute thrombolysis (breaking down a blood clot in the brain).



Words from the Caring Together Team winner – Research Development Unit

On behalf of our little team, both past and present, I would like to say a very heartfelt thank you for what was a truly surprising and humbling acknowledgement at the Caring Together Excellence Awards.

It is YOU, our Caboolture, Kilcoy & Woodford Staff, and your tireless efforts and clinical insights that have reached such a wonderful target – we are grateful to have the opportunity to enable such a positive research culture which allows you to shine.

We look forward to working with you to grow and build research, and in turn nominate many of you next year and celebrate your collective research excellence!





Caboolture research trial to shape future of health care for kids



Researchers at Caboolture Hospital will undertake a vital research trial aimed at shaping the future of health care for Caboolture children.

Caboolture Hospital Research Development Unit (RDU) Research Coordinator Dr Thuy Frakking said this was a very exciting win for local families, community and paediatric services in the region.

"As part of the clinical trial, we will be exploring alternate care pathways led by an Allied Health Liaison Officer, for children newly diagnosed with chronic developmental conditions," Dr Frakking said.

"Families who have children who suffer from Autistic Spectrum Disorder and Attention Deficit Hyperactivity Disorder find it harder to connect with specialist services especially in areas like Caboolture.

"We hope through this trial we can prove that connecting families to alternate pathways will lead to better health outcomes and improved prospects for their children."

As part of the Children's Clinic Care (ICCC) for vulnerable children with chronic disease, a randomised controlled trial will be undertaken with children across Caboolture and the surrounding regions.

"The research trial will be a multi-site collaboration with Gold Coast University Hospital and Caboolture Hospital across paediatrics (medical) and allied health streams," Dr Frakking said.

The trial follows on from recent work undertaken as part of a unique partnership between Caboolture Hospital, the Caboolture GP Super Clinic and local organisations and schools – the Caboolture Health Care Alliance.

Funding for the trial was awarded through Queensland Health's Health Practitioner Research Scheme (Experienced Researcher Category) 2017.

Caboolture

Dr Uzo Dibia, Staff Specialist at Caboolture Hospital presented a poster entitled

"Retrospective observational study of acute stroke thrombolysis at a secondary healthcare centre in Queensland, Australia" at the IMSANZ Conference held in Wellington (1-3 March 2017). Some key aspects of the presentation can be read [here](#).

Dr Paul Chapman and Una Gethins run the Antimicrobial Stewardship (AMS) Program at Caboolture Hospital. They have performed a pre-implementation, post implementation analysis of prescribing characteristics for community acquired pneumonia after implementation of the AMS service. The key points of the analysis were presented in poster form by Silke Claus at the Australian Society of Infectious Disease (ASID) Annual Scientific Meeting which was held at the Blue Mountains, NSW (29 March - 1 April 2017).

- Some of the significant issues of the analysis are:
- A statistically significant increase in guideline concordant antibiotic prescribing.
 - Ceftriaxone was the most commonly prescribed antibiotic in 2015. This changed to Benzylpenicillin.
 - Duration of IV antibiotics was reduced.
 - No increase in 30 day mortality or length of stay.

Further information can be found [here](#).