



2020 Annual Research Report

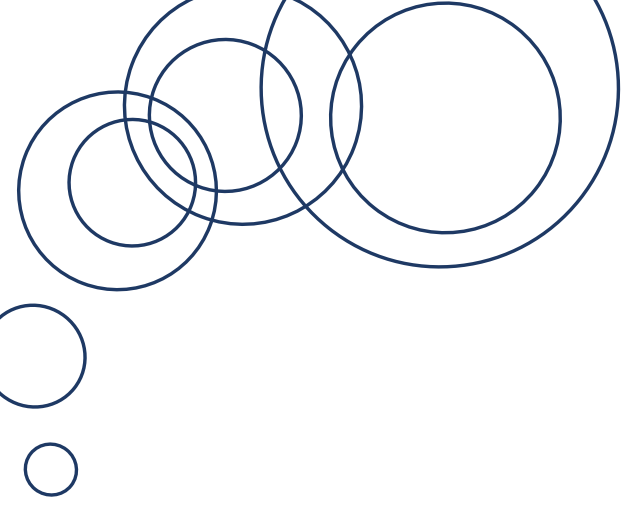
Research and Innovation
within the Sunshine Coast
Hospital and Health Service

Sunshine Coast
Hospital and Health Service

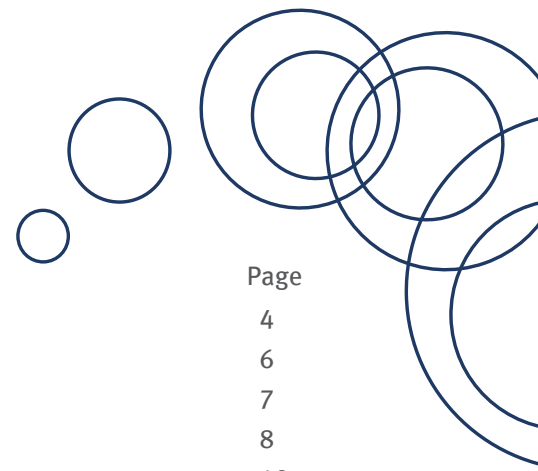
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Contents

	Page
Foreword	4
Research snapshot 2020	6
New research projects in 2020	7
Research revenue in 2020	8
Research committees and governance	12
Research governance and development unit update 2020	13
Clinical Trials	14
Infectious Diseases Research Spotlight	16
Current research projects in infectious diseases	17
Infection Research Network Sunshine Coast	21
Sunshine Coast Health Institute	22
Meet our research fellows	27
Consumer Research Engagement Group	30
Clinical-Academic Collaborative PhD Scholarship Program	31
SERTF/ Wishlist research funding	32
Coverdale-Anstey Young Investigator Prize 2020	37
Allied Health 2020 Service Group Report	38
Community and Preventive Health 2020 General Manager Research Report	39
Mental Health and Specialised Services Group 2020 General Manager Research Report	42

Departmental reports

Allied Health Department	44
Department of Anaesthesia and Perioperative Medicine	53
Cardiology	55
Clinical Research	57
Dermatology	59
Emergency Medicine	60
Gastroenterology and Hepatology	61
General Surgery	63
Infectious Diseases	64
Intensive Care Services and Paediatric Critical Care	66
Nephrology	69
Neuroscience & Geriatric	73
Medical Oncology	76
Radiation Oncology	78
Pharmacy	79
Respiratory and Sleep Medicine	82
Vascular Surgery	84
Women's and Children's Service Group	85
Research Publications	88

Foreword

Our 2020 Annual Research Report is our opportunity to recognise and celebrate the great work of our Sunshine Coast Hospital and Health Service (SCHHS) researchers and their many research partners and collaborators throughout the year.

As a health service we have a strong commitment to research and the benefits that it can bring to our patients and community. In 2020 the additional demands and pressures created by the response to the COVID-19 pandemic added further to the already demanding clinical and financial environment for our health service. Despite these challenges, our research activity, our collaborations, and our outcomes, remain impressive. As an organisation, we continue to grow and develop strength in research every year.

Our focus in this report, as always, remains on the research work of our clinical departments and their research collaborators from a wide range of Hospital and Health Services (HHSs) and academic institutions. This research is supported by the Research Governance and Development Unit, Clinical Trials Unit, the Sunshine Coast Health Institute (SCHI) Library, and departmental research staff throughout SCHHS. Our local research grants are always proudly supported by WISHLIST and SERTF and our 2020 grant recipients are recognised in this report. Congratulations also goes to the successful recipients of the SCHI inaugural research grants, which include many of our staff as lead or collaborating investigators. We look forward to seeing the outcomes of their work.

Of course, our research would not be possible without the involvement of our staff, patients, and community and as always, we thank them for their willingness to participate and their contribution to our research. In 2020 the Research Office, in partnership with our Consumer Engagement team, established a Consumer Research Engagement Group and we look forward to their ongoing involvement in our research program.

We also thank and acknowledge the support of our SCHHS Board and Executive, our Research Clinical

Council, and Research Operations Group. In 2020 our Clinical Trials Steering Committee has been re-invigorated and has made important contributions to improving our selection, governance, quality, and performance of clinical trials at SCHHS.

In 2020 the COVID-19 pandemic forced a postponement of our inaugural Sunshine Coast Health Symposium. This will be delivered in 2021. Our Research Strategy has also been updated and included in this report.

The future of research at SCHHS includes a strong focus on promoting opportunities for research in our clinical departments. This will include a renewed attention to research planning, development, and support, as well as addressing barriers such as access to time and resources to conduct research. We certainly see our busy clinical staff and our departments as the ‘engine room’ of research in SCHHS, and will continue to promote and develop the role of research as part of the ‘business’ of departments in a tertiary level health service. An example of this is the expanded web research profile for our various departments and services. Our 2020 report shows there is much to celebrate in SCHHS research. We look forward to expanding and further developing our research program in the months and years ahead.



Adjunct Professor Brad McCall
Clinical Director Research
Sunshine Coast Hospital and Health Service



Research snapshot 2020

2020 TOTAL ACTIVE PROJECTS

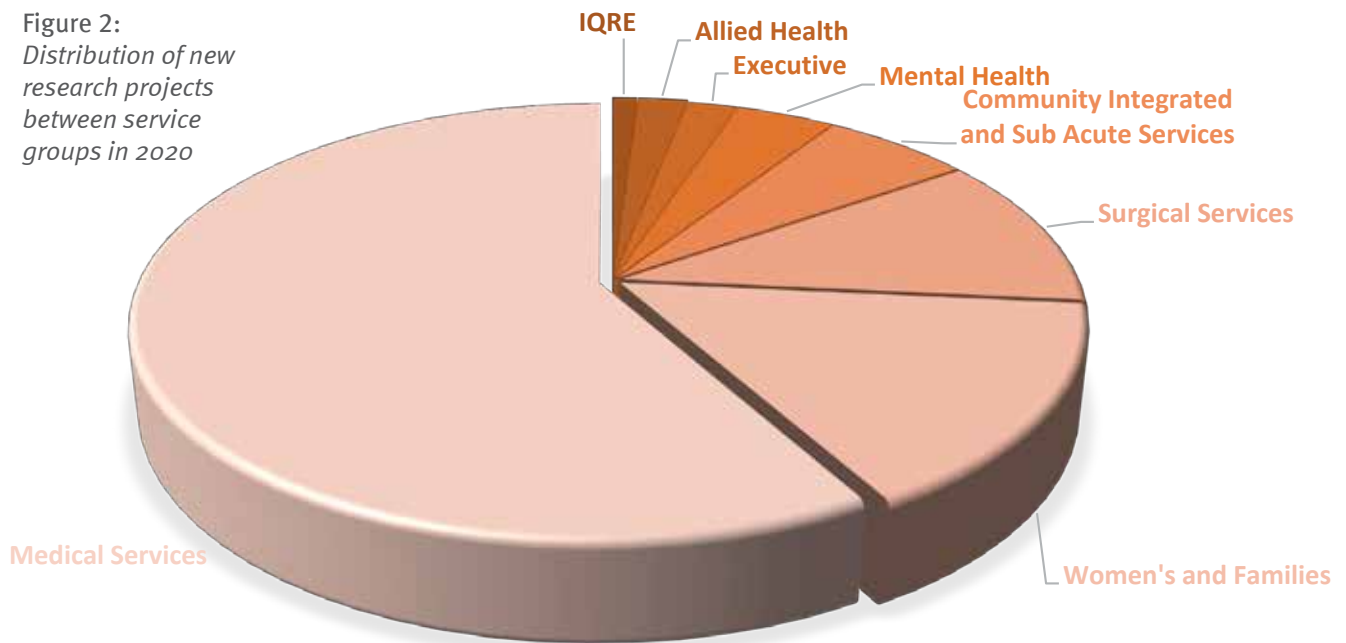


In 2020 SCHHS had 320 research projects that were 'active' according to research governance and ethics approval authorisation and currency. These projects included clinical trials, investigator-led clinical research and all novice, early career and experienced researcher local and collaborative studies across our organisation. Our Oncology department (including haematology, medical and radiation oncology) had the greatest number of active projects at 52. Other highly active departments included Renal, Intensive Care, Surgical Services, and Paediatrics, as seen in Figure 1. In 2020 there were 98 new studies authorised by the governance team, with Medical Services having the highest number of new projects approved, as seen in Figure 2.

Figure 1:
2020 Total Active
Projects

New research projects in 2020

Figure 2:
Distribution of new
research projects
between service
groups in 2020



Clinical Trials Approved in 2020 – by discipline:

Discipline	Count
Oncology	9
Gastroenterology	2
Infectious Diseases	2
Intensive Care	2
Obstetrics	2
Renal	2
Surgical	2
Emergency	1
Hepatology	1
Neurology	1
Physiotherapy	1
Respiratory	1

New research projects in 2020 – by Service Group:

Service Group	New in 2020
Medical Services	57
Women's and Families	15
Surgical Services	11
Community Integrated and Sub Acute Services	6
Mental Health	4
Executive	2
Allied Health	2
IQRE	1

Our top five external research partners in 2020 (parties to collaborative research agreements):

Collaborator	Research Agreements
University of the Sunshine Coast	18
University of Queensland	7
Monash University	6
Queensland University of Technology	5
The George Institute for Global Health	5

Research revenue in 2020

Research revenue from external sources received directly into SCHHS cost centres from Jan-Dec 2020 was around \$1.7m. This reflected an increase in Research Grant funding by 18 per cent, and a decrease in other Non-Commercially Funded Collaborative Research by 35 per cent. Commercially Sponsored Clinical Trials remained steady, increasing by 3 per cent. This result was the highest revenue recorded across recent years and we continue to observe an upward trend in research revenue received by SCHHS.

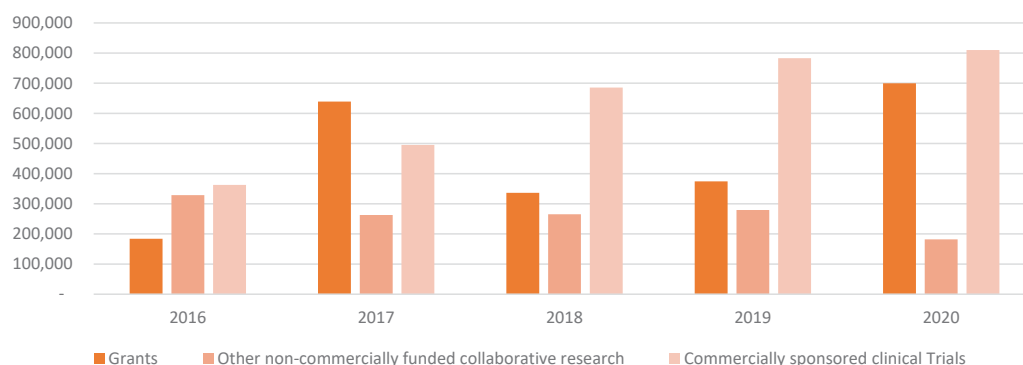


Figure 3:
Revenue from
2016-2020



SCHHS Research Strategic Plan 2021-2026

Vision

Research constitutes core business for Sunshine Coast Hospital and Health Service (SCHHS), and has been identified as one of the key opportunities for our organisation in the Strategic Plan 2020-2024.

Our opportunities:

Grow research and education capability - Leading and embedding an education and research culture.

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Exceptional people. Exceptional healthcare.

Supporting translation of research to patient care across our region

The SCHHS Research Clinical Council is custodian of this strategy. The council's purpose and scope:

- » Provide recommendations to SCHHS on strategic research issues
- » Provide advice in alignment with relevant codes and strategies
- » Ensure clinician input is included in the decision-making process
- » Communicate appropriate information widely across SCHHS
- » Advise the Clinical Director Research on matters of research importance
- » Report to the stakeholders including the Executive Director Clinical Governance Education and Research, Service Group leaders, SCHI Research Advisory Group and other key sub-committees.



Our Research Priorities:

- » Support and develop excellent research across disciplines within the SCHHS
- » Develop a strong and vibrant research community culture to attract and retain high performing researchers to the SCHHS
- » Develop a stronger framework where translation of the impact and outcomes of research are prioritised and communicated
- » Build on existing strong partnerships with key institutions and facilitate the development of new partnerships

Our core capabilities and strengths



Access to leading research facilities across the Sunshine Coast Hospital and Health Service



Sunshine Coast Health Institute partnership with leading education providers – Griffith University, TAFE Queensland and University of the Sunshine Coast (USC)



Proximity to the USC campus and the strengthening of our research collaborations across its various health-related disciplines



Relationships with leading academics and practitioners from research institutions and organisations across the state and nationally



The rapid growth of the region, and the developing profile of our region as a location with a thriving innovation, entrepreneurial, collaborative, and digital ecosystem



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Delivering our research strategy

STRATEGIC PRIORITIES

Support excellence in research

Develop a strong and sustainable research culture

Increase the translation of research into clinical practice

Grow partnerships

OBJECTIVES

Support and develop excellent research across the disciplines within SCHHS

Develop a strong and vibrant research community culture to retain high performing researchers and attract more to SCHHS

Develop a stronger framework where translation of the impact and outcomes from research are prioritised and communicated

Build on existing strong partnerships with key institutions and facilitate the development of new partnerships

ACTIONS

- Build on our existing research strengths and recognise opportunities for alignment with national and regional health research focuses
- Increase the quality and volume of research activity and funding across the SCHHS through the effective deployment of resources to support research growth and development
- Provide guidance and training to all researchers to give them the skills to undertake robust research with the highest possible impacts and outcomes
- Ensure all research staff, and those supporting them, have access to research education and skills training at the core of departmental culture
- Provide effective research governance and development support which prioritises the aims and ambitions of researchers and partners

- Recruit and retain the best researchers at all career stages across clinical disciplines
- Grow the mentoring and interactions between researchers in a supportive and attractive environment including developing pathways for early career researchers
- Support staff in the development of large funding applications in our areas of strength and encourage research income generation through clinical trials
- Support clinicians to develop a strong research and learning culture and recognise the role of research students in promoting research
- Celebrate and encourage our local research achievements through regular research symposiums, showcases and other communication strategies

- Seek to ensure research has impact beyond academic recognition through the engagement of people within organisations to effect policy and practice
- Promote activities that communicate our research strengths, achievements, and successes through greater engagement across SCHHS and with the wider public
- Support the scaling of research activities that are focused on delivering evidence-based approaches to improve healthcare delivery, service improvement and promote best practice through continuous learning
- Ensure our quality improvement activities clearly identify key deliverables and service outcome impacts and monitor their translation into practice
- Provide support for experienced, novice and emerging researchers to nominate translational research projects within their disciplines
- Ensure participation of researchers in relevant clinical meetings to ensure sharing of research findings with clinical staff

- Build strong links at SCHHS and researcher level with other researchers, academics, institutions, and industry, to nurture productive and sustainable partnerships
- Develop partnerships at regional, national, and international levels that support our research ambitions and development of long-term sustainable relationships
- Build a strong and transparent framework for partnership engagement and the development and sharing of successful research programs
- Work closely with SCHI and our partner institutions to grow the SCHHS visiting researcher program and encourage high quality applications from other leading institutions
- Increase the visibility of SCHHS as a quality research and partnering institution through our online presence and interactions with SCHI
- Build relationships with related health care entities such as the Public Health Network (PHN) who may wish to collaborate on new clinical care models and research

Contact us 

Search online for SCHHS Research

(07) 5202 2992

SC-Research-Support@health.qld.gov.au



Research committees and governance

Research Clinical Council

The purpose of the Research Clinical Council (RCC) is to provide strategic advice and recommendations to SCHHS regarding research. The RCC meets quarterly to consider and provide advice on strategic research issues. The council ensures clinician input gained and included in the decision-making processes for all strategic research matters and ensures that appropriate information is communicated widely throughout SCHHS. More information about this [Tier 3](#) committee including the [Terms of Reference](#) can be found on the Research QHEPS page.

Clinical Trials Steering Committee

The Clinical Trials Steering Committee (CTSC) was re-established in 2020 to provide leadership, management direction, governance and decision making for the successful delivery of

Clinical Trials Services within SCHHS. The vision is to implement, grow and sustain the delivery of patient-centred clinical trials by building research infrastructure, resources, and staff capability. With the introduction of the National Clinical Trials Governance Framework, this committee's goal will be to ensure that the appropriate governance policies and procedures are in place to ensure compliance with the framework. In addition to this, the CTSC will provide a forum to develop strategies to ensure the sustainability of quality clinical trials across the entire HHS. The Steering Committee, meeting bi-monthly, will ensure clinical trials services are aligned with the SCHHS Strategic Plan and the SCHHS Research Strategy.

Research Operations Group

The purpose of the Research Operations Group (ROG) is to bring together key SCHHS research personnel to collectively develop standardised procedures for the operation of research activity within SCHHS. The ROG meets monthly and is responsible for the identification of issues, proposal of solutions and making of recommendations to the Director of Research for consideration and approval in relation to operational research issues.



Research governance and development unit update 2020

The Research Governance and Development Unit (RGDU) provides general support to researchers to facilitate the development of their research projects. The research support team assists SCHHS researchers with the review of research protocols and methodology, grants submissions, ethics/governance applications and publications/presentations. 2020 saw the creation of a dedicated Clinical Research Officer – Research Quality, to support researchers achieve best practice in conduct of investigator-led research projects. In 2020, the RGDU progressed several key bodies of work to better support SCHHS research.

Research Internet and Intranet Review and Update Project

During 2020, the RGDU undertook a comprehensive review and update of SCHHS Research Intranet and Internet

sites to ensure these resources are effective, end-user focused tools to support SCHHS researchers, engage with potential external research sponsors, and facilitate collaboration. The new sites are expected to be launched in the second half of 2021.

Research Procedural Documents Update

The RGDU invested time in 2020 reviewing, consolidating, and updating our Group A and B procedural documents. We have developed a comprehensive suite of resources including guidelines, quick reference guides and fact sheets, to support all facets of the research process.

Group A documents can be found on the [procedural documents page](#), accessed from the 'Procedures' tab on the QHEPS homepage. Filter 'Research' in the 'Departments' column to see all relevant Group A documents. Group B documents focus on local guidelines and operational/ instructional documents. These can be found on the [Group B procedural documents page](#) (via the procedural documents page on QHEPS) under 'Research' and are then categorised into Clinical, Governance or Support.



Members of the RGDU team – Principal Governance Officer, Megan Rutter; Grants Officer, Alix Stubbs; Research Manager, Sheree Cross

Clinical Trials

The offering of access to clinical trials by SCHHS clinicians has benefits for our patients, researchers and SCHHS as a health service provider:

- Our patients can benefit by being participants in the short term from the intervention being trialled, and in the long term they and the entire community benefit from the knowledge they help to generate.
- Our participation in trials helps provide the level of evidence needed by researchers to reliably inform clinical practice and/or healthcare policy and makes a substantial contribution to global knowledge. Our clinicians and patients also provide valuable feedback and insights to researchers about the practicalities of clinical and other service provision experiences involved with a particular course of treatment.
- Our health service and community also benefit through enhanced services, offering patients access to cutting edge therapies and interventions that could further optimise their care or provide treatment options when all conventional therapies have been exhausted.

SCHHS is involved in a range of research projects and clinical trials including commercially sponsored trials, collaborative trials with multi-centre networks and local investigator led trials.

We have a range of resources and governance documents specific to Clinical Trials available on the Research Internet site and QHEPS page.

Focus on Principal Investigators

We rely on clinical trials to test new treatments before bringing them to the market. Clinical trials are the frontline of clinical progress and they require specialised skills to conduct them. Clinical trials are not merely an extension of clinical care and likewise, the role of the Principal Investigator (PI) is not simply an extension of the Clinician role. The skills required for a PI are mostly passed on from one clinician to another without any formal training in the role. Although the role of PI is looked upon as a prestigious goal, it is difficult to fulfill given the competing clinical expectations on the clinician.

What is the role of the PI?

The PI oversees the conduct of the trial and is accountable for the trial at their site. They are required to delegate appropriately trained and qualified staff to specific trial duties.

They supervise the study performance and ensure the protocol is adhered to. They provide the clinical care to the participant and ensure safety in all aspects of the trial. They are responsible for preparing a communication plan for all staff involved in the trial.

What are the key attributes of a first-class PI?

A good PI knows the protocol inside out. They confidently delegate functions, maintain oversight of trial activities, manage patient care and work with the Study Coordinator to bring new and emerging treatment opportunities to patients. They meet regularly with the study team to ensure everyone is up to date on the trial protocol, encouraging colleagues to refer patients to them for the trial and to recruit patients. To do this they need to be trained, and a good PI completes the protocol, database, Good Clinical Practice



*SCHHS Oncologist
Dr Bryan Chan
convening the
Clinical Oncology
Society of Australia
meeting.*

(GCP) and any other training in a timely fashion. A good PI is always there for the participant, providing advice, education, clinical plans and aligned standard treatment. They do a thorough consent process adhering to good clinical practice guidelines, including comprehensive entries in the patient's medical record. Not only is a good PI available to their trial participants, they are also in regular contact with the Study Coordinators. Communication is key because the trials are not standard practice, they are a new environment, a new treatment regime, and are work that is not based in the PI's clinical department. A good PI dedicates their valuable time to competently manage their trials and therefore needs to have the support of their department and colleagues.



*Helen Rodgers,
Clinical Research
Unit NUM*

Communication

Availability

Organisation

Training

Safety

Good Clinical Practice



*Clinical Research
Unit Team*



Infectious Diseases Research Spotlight

Dr Keat Choong has provided exceptional leadership during the Coronavirus pandemic and it is through his vision and ability to navigate the service and his approach to outbreak management that SCHHS has managed success at a very difficult time. He works tirelessly and by his example the infectious diseases department, infection management service and AMS have been given to ability to perform at our best. Dr Choong has excellent people skills, can determine what to expect from employees and encourage them to be their best. Dr Choong has also worked at State-level and intimately with the Public Health Unit (who have done a tremendous job) and is well known for being an excellent negotiator and mediator. Dr Choong also works hard to improve his leadership qualities and this has been evident during this extremely stressful time.

Dr Choong has remained clinically focused in delivering quality care to all of our patients, but especially so for the complex COVID-19

patients that were admitted under the infectious Diseases Unit. He has demonstrated vision for reducing the anxiety and concern for our patients by devising models of care that involved increased telehealth, management of COVID-19 in a shared care model with Hospital in the Home and provision of accommodation

for these awaiting clearance from isolation. He has enabled us to be prepared for future cases and has negotiated the development of systems in the hospital at a rapid-fire rate during the crisis. Whilst transforming ideas into action, he has maintained calm amongst staff and empowered units to come forward and participate in preparation efforts.

He has shown that he can work above expectations and has shown a degree of courage not visible prior to the pandemic. Although we are not completely 'out of the woods' I feel our staff are in a safer and more informed place that they were previously, and this is largely due to Dr Choong's leadership.



Current research projects in infectious diseases

A pilot study of proactive and outcomes of ESCHAPPM organisms at a tertiary care hospital

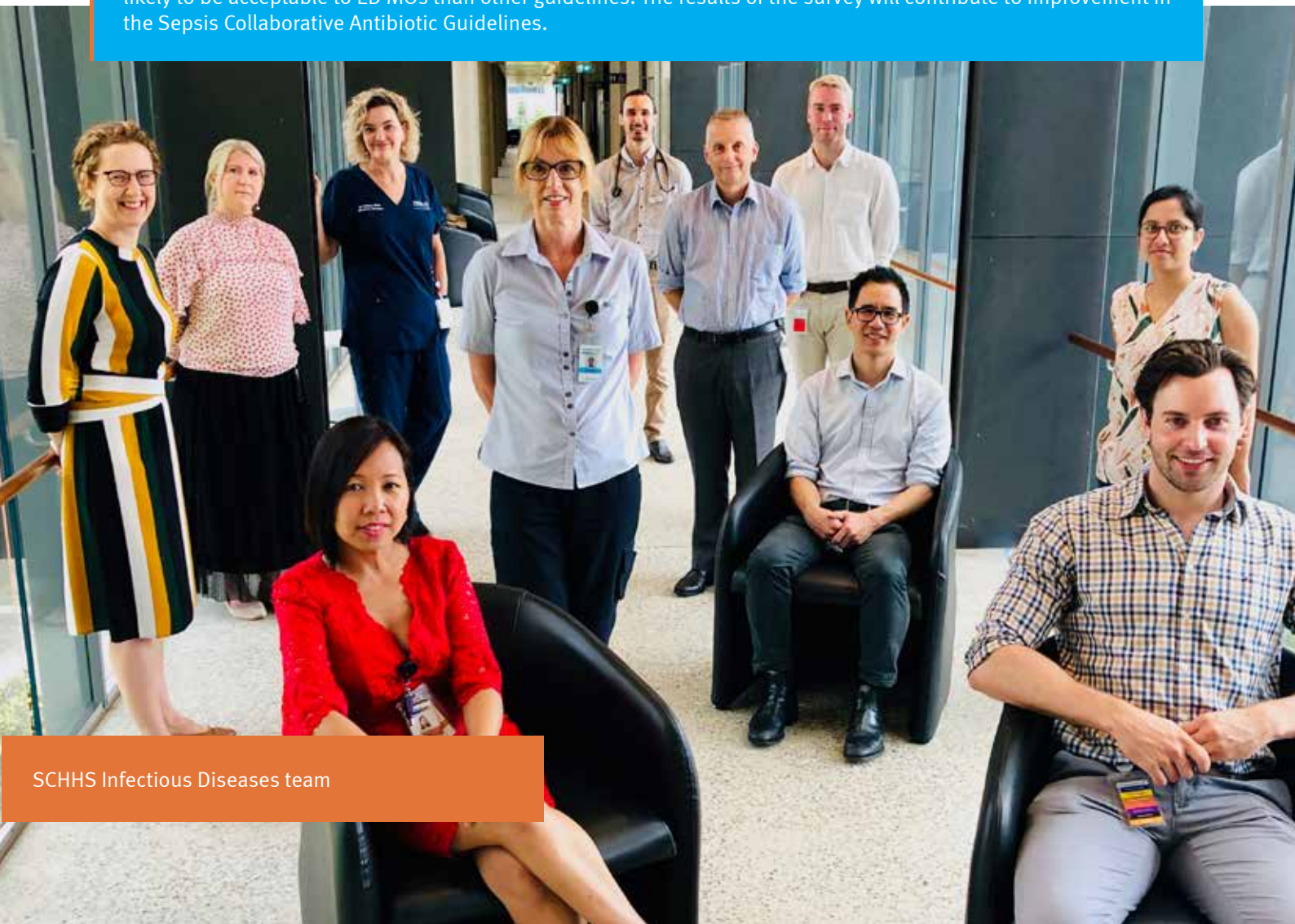
Dr Kathryn Wilks, Staff Specialist, Infectious Diseases

Study Objective: To analyse the incidence, practice and outcomes of inpatients admitted to a tertiary care hospital with an infection caused by ESCHAPPM organisms assumed to produce chromosomally mediated inducible AmpC β -lactamase, compared to inpatients with infections caused by non-ESCHAPPM gram-negative organism.

Queensland Emergency Department Sepsis Antibiotic Guidelines [QEDSAG] - Implementation in the Emergency Department.

Dr Kathryn Wilks, Staff Specialist, Infectious Diseases

Ensuring the best empiric antibiotic choice in Department of Emergency Medicine for sepsis is likely to lead to better patient outcomes with a reduction in post-sepsis mortality and morbidity. This study aims to examine the way antibiotic guidelines are used in the Emergency Department and the drivers behind how they are utilised. Participants will be Queensland-based Infectious Diseases, Rural and Remote Specialists, Emergency Department and Intensive Care medical officers (MO). These Medical Officers will be invited to participate in a case-based scenario email on-line survey. Results of the surveys will be correlated with clinical survey data collected by the Queensland Sepsis Collaborative (HREC: TPCB Project ID 50589 "Queensland Sepsis Collaborative"). This study hypothesises that locally derived antibiotic guidelines (used by the Queensland Sepsis Collaborative) are more likely to be acceptable to ED MOs than other guidelines. The results of the survey will contribute to improvement in the Sepsis Collaborative Antibiotic Guidelines.



SCHHS Infectious Diseases team



Current research projects in infectious diseases cont.

Covid-19: Host response and bacterial co-infection (CoViBac Study)

Dr Tim Baird, Staff Specialist, Respiratory Medicine
Dr Kathryn Wilks, Staff Specialist, Infectious Diseases
Dr Peter Garrett, Staff Specialist, ICU
Dr Michael Bint, Directory of Respiratory Medicine
Dr Keat Choong, Clinical Director, Infectious Diseases
Dr James Anderson, Staff Specialist, Respiratory Medicine
Sarah Kingscote, Senior Pharmacist
Lauren Murray, Clinical Nurse, Research

Exploratory observational cohort study in individuals with suspect or confirmed COVID-19 pneumonia. The main aims of the study will be to: 1) Identify the types of bacterial co-infection seen in individuals with COVID-19 pneumonia; and 2) Identify the aberrant immune responses driving COVID-19 disease. The study will aim to recruit 20 subjects over a 12 month period (1/6/20 - 31/5/21) that present to the Sunshine Coast University Hospital with suspect or confirmed COVID-19 pneumonia. The study will involve laboratory analysis of lower airway samples (sputum or endotracheal aspirates - ETA's) using a number of techniques to determine the presence and type of bacterial co-infection and the host immune response. The study will not alter the subjects management in any way. The hypothesized outcomes are that certain bacterial co-infections will occur in severe COVID-19 related pneumonia and that specific host immune/inflammatory markers will be seen across differing severities of disease. This will lead to more appropriate antibiotic therapy in the future, improvement in patient clinical outcomes, a reduction in the development of antibiotic resistance, and the identification of immune biomarkers that may be targets for future novel therapies.

Monitoring group B streptococcus (GBS) causing life-threatening invasive disease on the Sunshine Coast

Dr David Sowden, Staff Specialist, Infectious Diseases

The major objective of this project is to provide the first genotypic characterization of GBS invasive isolates from the Sunshine Coast to determine if these strains represent a unique set of genetically distinct isolates.

1. Determine the Multilocus sequence type (ST) and clonal complex type (CC) of GBS isolates causing invasive disease on the Sunshine Coast.
2. Assess the uniqueness of these isolates through genomic and MLST comparisons with other GBS datasets.
3. Determine the antibiotic resistance profile of all GBS isolates in the collection.
4. Compare clinical and sequencing findings of the same isolates to determine any genomic associations with specific clinical patterns (invasive disease)

Local Hospital Epidemiology and Molecular Characteristics of ESBL-Producing Enterobacteriaceae and other Multi-Resistant Gram-Negative Organisms

Dr Andrew Walczak, Registrar, Infectious Diseases

Dr Shrada Subedi, Staff Specialist, Infectious Diseases

Dr Keat Choong, Clinical Director, Infectious Diseases

Our aim is to develop and validate molecular based diagnostics to provide cheap and rapid identification and characterisation of multi-resistant Gram-negative bacterial infections of clinical and infection control significance in the Sunshine Coast Hospital and Health Service and to correlate the laboratory findings with the clinical and epidemiological data obtained from patients' medical records. Current trends in the development of in vitro diagnostics are moving towards simple, high-throughput technologies that provide rapid and robust microbiological diagnoses, and have greater sensitivity and specificity compared to traditional culture-based methods. We will characterise approximately 200 multi-resistant gram negative organisms.

Infective Endocarditis (IE) in a hospital without cardiac surgical facility - retrospective and prospective review over a 10-year period

Dr Shradha Subedi, Staff Specialist, Infectious Diseases

Associate Professor Kim Greaves, Staff Specialist, Cardiology

Dr David Sowden, Staff Specialist, Infectious Diseases

Research objectives:

- Description of local epidemiology including patient demographics, microbiology, clinical presentation, management and outcomes of patients with infective endocarditis.
- Define optimal timing of cardiac imaging (trans-thoracic and trans-oesophageal echocardiograms) in patients who present with clinical features suggestive of IE
- Determine the role of adjunctive aminoglycoside treatment along with beta-lactams or glycopeptides in patients with prosthetic valve endocarditis or Streptococcal endocarditis.

Benefits:

- Greater knowledge of and understanding of the epidemiology and develop guidelines specific to our health district.

Outcomes:

- Aim to develop better understanding of epidemiology and clinical features of IE and the best diagnostic and management approach.

A review of screening and prophylaxis for disease and infection in patients with auto-immune disease treated with biologic agents and/or steroids in the Sunshine Coast Hospital and Health Service.

Dr Shrada Subedi, Staff Specialist, Infectious Diseases

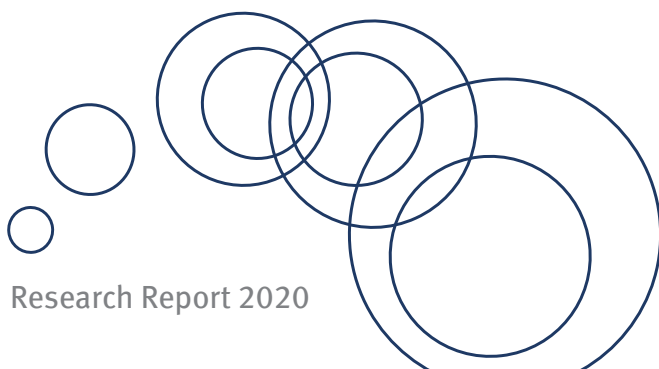
Kathryn Barnes, Public Health Nurse, Sunshine Coast Public Health Unit

Immunocompromised patients are more at risk of infection and disease and subsequent morbidity and mortality. Therefore screening and prophylaxis measures are important prevention tools both for the health of the patient and to reduce hospitalisations and deaths. Modern immune biologics add to the immunosuppressive burden for immunocompromised patients and are a relatively new and rapidly expanding mode of treatment of autoimmune conditions. Steroids are an older form of treatment and can be prescribed alongside biologics. Preventative screening and prophylaxis such as vaccination have been inconsistent and focussed on recommendations to patients rather than developed pathways of care. Without prophylaxis, bacterial infections are the most common outcomes for immunosuppressed patients accounting for as much as 75 per cent of infections^{6,7} and the most common diseases are vaccine-preventable; pneumococcal pneumonia and influenza virus.⁸ Immunisation against vaccine-preventable diseases is recommended to the patient prior to treatment, but these are verbal recommendations and are not currently a prophylactic treatment pathway offered via the hospital system. Patients are recommended to attend their GP for vaccination and follow-up is not provided. Education around disease prevention and the risks of infection is limited. There is a clear need for more research in this area. This research plans to undertake an audit or study on current screening and prophylaxis (prevention) including vaccination amongst immunology and dermatology patients, in the Sunshine Coast Hospital and Health Service, to inform better practice and improve patient outcomes from the risks of disease and infection. This will include a review of current screening and prophylaxis practices and the related findings on risks associated with newly introduced biologics.

A phase 3, randomised, double-blind, active controlled study to compare the efficacy and safety of ridinilazole (200mg) for 10 days with vancomycin (125mg) for 10 days in the treatment of Clostridium difficile infection (RiCodify)

Dr David Sowden, Staff Specialist, Infectious Diseases

Clostridium difficile infection (CDI) is an infection of the colon that invariably develops following prior antibiotic use. The disease is associated with significant morbidity and mortality and primarily affects the hospitalized elderly although it is increasingly affecting younger patients. It is difficult to treat and patients have recurrent episodes. Ridinilazole is a novel antimicrobial for CDI with a goal of achieving comparable cure rates to standard of care, but reducing rates of recurrent disease. The rationale for this phase 3 study is to confirm the improvement in sustained cure of CDI over vancomycin and compare the safety of ridinilazole to that of vancomycin.



Infection Research Network Sunshine Coast

Infection Research Network Sunshine Coast

Email: SC-IRNSC@health.qld.gov.au

The Infection Research Network Sunshine Coast (IRNSC, the 'Network') is a diverse range of researchers based in the Sunshine Coast region with a shared enthusiasm for research into infectious diseases. Research themes include the understanding of the biological mechanisms of infection, infection prevention,

disease treatment and the social contexts and dynamics that influence infection prevention, management and antimicrobial use.

Our Network comprises of clinical research studies involving patients across the region, evidence-based clinical practice improvement research, and laboratory-based investigations into specific pathogen-host interactions and mechanisms by which infection spreads and can be treated. The Network is interested in involvement in further clinical trials and



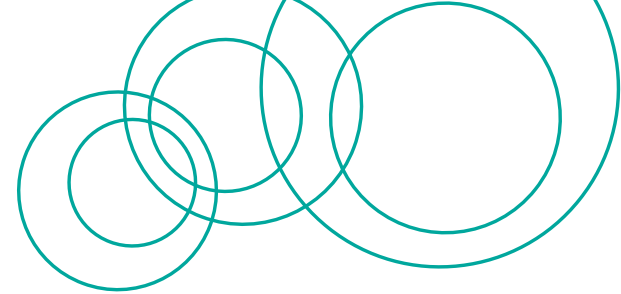
collaborative research projects that would benefit the patient populations we service in the Sunshine Coast Health and Hospital Service and utilise key strengths of our academic members at the Sunshine Coast Health Institute and multiple university collaborative partners.

Current Key Research Themes

Infection and society: the social influences on infection prevention, management and antimicrobial use

1. Outbreaks and Infection prevention
2. Antimicrobial use and society

**Antimicrobial resistance / microbiology
Clinical Trials**



Mission: SCHI will improve health and wellbeing outcomes for the region and beyond.

Vision: SCHI will be an institute for innovation that leads research-informed healthcare, health education and training that delivers solutions to address health service, consumer and community needs.

Overview

Sunshine Coast Health Institute (SCHI) is a joint venture collaborative partnership between Sunshine Coast Hospital and Health Service (SCHHS), USC, TAFE Queensland (TAFE) and Griffith University (GU).

Teaching, training and research are integral to SCHHS and to SCHI partners. SCHI plays a vital role in training the next generation of staff, fostering innovation, and maintaining a culture of ongoing clinical audit, redesign, and clinical practice improvement to support excellence in the delivery of care.

Strategic goals

- innovation and excellence in professional, inter-professional, and inter-sectoral education, training and workforce development

- excellence in health and educational research that addresses the challenges and opportunities of the region and beyond
- provide leadership in innovative models of evidence-based healthcare and population health
- invest in authentic stakeholder engagement.

Research Teams

PRACTICE EDUCATION IN HEALTH

This research theme recognises that quality education for clinical and non-clinical practice roles is the foundation for the provision of optimal healthcare for patients/clients/families and communities. Practice education in health research can shape health systems and is advanced by enquiry in three subthemes:

1. Inter-professional education and collaborative practice

The focus of activity in this subtheme is to provide evidence for the effectiveness of inter-professional education (when two or more professions learn with, from and about each other) in facilitating and maintaining an effective collaborative practice in order to enable optimal health outcomes.

2. Workforce and career development pathways

The focus of activity in this subtheme is to identify and develop career pathways for health professionals (including all clinical and non-clinical health workforce) across the career lifespan. It links staff learning and development to other human resources and business activities, including strategic planning, workforce planning, and career development.

3. Educational Technology

The focus of activity in this subtheme is to strengthen the evidence, visibility, and impact of education technology, facilitate learning and improve performance by creating, using, and managing appropriate technological processes and resources. It encompasses research relating to simulation modalities and technology-enabled learning.

INFECTIOUS DISEASES AND ANTIMICROBIAL RESISTANCE

The Infectious Diseases and Antimicrobial Resistance cluster at SCHI is focused on biomedical research into all aspects of human infectious diseases. The cluster has several broad themes that represent our research strengths:

1. Better understand the presence, origin, and transmission of infectious diseases and their antimicrobial resistance (AMR) potential in the community – and hospital-acquired infections using



SCHH

cutting-edge approaches such as genomics, transcriptomics, and novel real-time PCR diagnostics.

2. Enhance antimicrobial stewardship measures to enable more informed antimicrobial use both in our hospitals and the community, with a view to reducing the overuse/inappropriate use of antimicrobials to mitigate a return to the post-antibiotic era.
3. Characterise chronic infectious diseases using metagenomic and metatranscriptomic techniques to unveil the ‘microbiomes’ (i.e. bacterial, fungal, viral, and archaeal communities) of complex diseases such as cystic fibrosis, chronic obstructive pulmonary disease, lung cancer, diabetic foot ulcers, spontaneous bacterial peritonitis in cirrhosis, and COVID-19.
4. Optimise pharmacodynamics for combatting AMR infections to improve treatment regimens and antimicrobial efficacy, thereby improving patient outcomes and reducing current and future AMR burden.

HEALTHY AGEING; PRIMARY AND SECONDARY PREVENTION

Healthy ageing is the process of developing and maintaining the functional ability that enables wellbeing in older age (World Health Organisation, 2015). The vision of the SCHH Healthy Ageing Research Cluster is to enhance function and wellbeing through innovative research that leads to better detection, prevention, and management of chronic and age-related conditions.

Through our SCHH partners and national and international collaborators, the Healthy Ageing Research Cluster brings together clinicians, health practitioners, health researchers, and research students from a wide range of health and scientific disciplines.

We place a strong emphasis on multidisciplinary approaches that are solutions-focused and that advance all aspects of human function, namely biological function (including organ function), physical function, cognitive function, and social function. This emphasis on function is consistent across our key research streams, which are:

- detection and evaluation

- prevention and care
- treatment and translation.

Our research is engaged with and informed by the needs of patients, consumers, and community groups. We support a wide range of experimental and clinical research studies that include people of all ages, particularly those with or at risk of chronic conditions. We actively partner with the health and aged care sectors to ensure that all our work supports the translation and implementation of new knowledge into practice.

MATERNAL AND CHILD HEALTH

In 2020, maternal and child health research within SCHHS was focused on two key areas: optimal peripartum care and the first 1000 days.

Our primary aim is to improve health outcomes for newborn infants, young children, and their families. Our translation objectives are: 1) the promotion of healthy pregnancy and normal birth and 2) early identification of infants, children, and families with identifiable risk factors who receive timely, effective care to facilitate optimal outcomes.

Current research activity is centred around five themes:

Maternity:

1. Promoting and facilitating normal birth including respectful maternity care and reducing maternal-infant separation
2. Optimising outcomes for women with complex pregnancies/birth
3. Collaborative models of maternity care

Child Health:

4. Infant sleeping and strategies to reduce the risk associated with Sudden Unexpected Death in Infancy
5. Multiagency approaches to infant death investigation and family support

OPTIMISING HEALTH SERVICE DELIVERY AND MANAGEMENT

The vision of this research cluster is to improve the health communities (local, state/national, global levels) by undertaking good quality collaborative research that will inform the optimisation of health services.

This is done by:

- reviewing current key research activities, including staff capacities
- building research collaboration capacity
- enabling and enhancing research quality

Improvements:

- Consumers/patients: advancing quality of care by engaging with consumers and experienced researchers to improve healthcare delivery

- Staff: developing translational and collaborative health service research by empowering, valuing and mentoring clinicians in undertaking research projects of their interested areas
- Leadership and management: supporting the improvements of collaborative research in organisational level

There are four key areas of collaborations identified:

1. End of life (EoL) shared decision making
2. State-wide evaluation Geriatric Emergency Department Intervention (GEDI) program
3. Drives to build/support a productive collaborative health research culture
4. Incorporating telehealth to support healthcare deliveries.



SCHI Seed Grants

In 2020, three SCHI Seed Grants were awarded to support collaborative projects between at least two SCHI partners (SCHHS, USC, Griffith University and TAFE Queensland). The funding was aimed at projects which support new directions in established and funded research, strengthen our research capability and competitiveness at a national and international level, and develop trans-disciplinary innovative research collaborations.

The grant recipients were:

Paul Williams – Infectious Pathogens as Stroke Triggers - Optimising the Diagnosis, Treatment and Secondary Prevention of Infectious Causes of Stroke

Erin Price – Characterising the lung cancer microbiome using next-generation sequencing

Chris Askew – Saving Legs and Lives - Efficacy of Cardiovascular Rehabilitation Referral Following Leg Vascular Surgery in a Clinical Setting

SCHI member research

Honor Hugo

Lecturer in Anatomy, School of Health and Behavioural Science, USC



Current research projects

Impact of cyclic (premenstrual) breast pain on compression achieved via mammography

Collaborators: BreastScreen Sunshine Coast, Volpara Health (NZ), Wellend Health (SA).

In the week before and during the menstrual cycle the breast can be swollen and sore, a common experience for many women (mastalgia) which is directly related to the fluctuation in estrogen and

progesterone. Mammography performed prior to or during the menstrual cycle may result in mammograms that lack clarity because of insufficient pressure applied. Our hypothesis for this work is that pre-menopausal women attending BreastScreen with breast pain will have lighter compression applied during mammography than women who are post-menstrual and not experiencing breast pain, reducing sensitivity of mammography in detecting cancer.

Identification of markers predictive of breast cancer in void volume breastmilk collected during weaning: a pilot study

Collaborators: Australian Breastfeeding Association, Dr Mel Dean (USC)

A breast cancer diagnosis is traumatic for any woman to receive, but a breast cancer diagnosed after the birth of a baby, post-partum breast cancer (PPBC), has potentially distressing implications for the woman and the family unit, and can mar what should be a positive experience for new parents. The hypothesis for this work is that biological analysis of void volume breastmilk collected during weaning matched with Gail model risk analysis data of the individual will advance development of a diagnostic test to recognise women at risk of developing PPBC, who could then be

more closely screened.

Defining the molecular pathways driving breast density (mammographic density)

Collaborators: Princess Alexandra Hospital, Queensland University of Technology, Translational Research Institute, Sunshine Coast Health Institute

High mammographic density (HMD) is a risk factor for breast cancer, the leading cause of female cancer-associated death in Australia. HMD sensitivity of screening mammography is associated with increased breast cancer recurrence and treatment resistance. Combining Nuclear magnetic resonance technology with long-term human tissue explant culture, we have demonstrated that we can reliably derive mammographic density change with hormonal treatments. This novel approach may uncover novel treatments to reduce density and offer new avenues for the prevention and treatment of breast cancer.

SCHI Laboratory Operations Manager spotlight

MEET BARRY PRICHARD



Born and living in Southeast Queensland with a young family, I have observed the region grow into a maturing society of health facilities

and professionals in a geographically desirable location, supporting significant population growth. As a dedicated and experienced Medical Laboratory Scientist, I am proud to be part of the evolution of the health sector in Queensland.

I have been recently appointed to the role of Laboratory Operations Manager at SCHI, a facility that promotes and enables research, clinical education, and training. My role oversees three Research Laboratories and the Human Body Visualisation suite. An array of high-quality research studies is underway in differing stages of development, which will have direct impacts on how we deliver healthcare into the future.

The physical design and function of the facilities is very advanced and will continue to improve as new technologies and research projects are engaged in order to utilise the laboratories to their fullest potential. The facilities are perfectly designed

for collaborative projects with a strategic focus on 'research to translation' to benefit the health of the regional community as well as the broader health of the Australian population.

Barry brings to the role of SCHI Laboratory Operations Manager experience in laboratory management as well as a range of areas including:

- Research governance & integrity
- Exercise & sports science
- Lecturing
- Project Management
- Biosafety
- Medical science
- Biochemistry



Meet our research fellows

Across SCHHS we have five clinicians whose research is supported by external research fellowship programs including the Advancing Queensland Research Fellowship and Queensland Advancing Clinical Research Fellowships. These are highly competitive programs and we are proud that SCHHS researchers have been recognised and rewarded for their research excellence.

Congratulations to you all and we look forward to hearing the outcomes of your research!

Advance Queensland Research Fellowships

The Advance Queensland Research Fellowships support innovative research that will have a positive impact on Queensland. Advance Queensland focuses on growing the economy and creating jobs. This includes investing in science and innovation in order to attract and retain the best and brightest research minds, build Queensland's reputation and capacity to conduct innovative research and development, deliver new products and services for Queenslanders, and establish new industries that will provide jobs for the future.



Associate Professor (University of Queensland) Jennifer Broom 2017-2021

Novel antimicrobial stewardship innovations to preserve antibiotics for the future

Jennifer's fellowship facilitated translation of her highly innovative program of research focused on the social and behavioural factors that influence prescribing of antibiotics in hospitals. This directly addressed a national and global health priority - antibiotic resistance - which is increasing annually, and has enormous implications for the future of healthcare internationally, and for the global economy. Antibiotics are still overused in hospitals (circa 25-50 per cent inappropriate). The research team, of which Jennifer is the clinical lead, has developed a substantial body of evidence of the factors that underpin over-prescribing of antibiotics in remote, regional and metropolitan hospitals in Australia and internationally. The program has strong collaborative ties with top Australian Universities including the Sydney Centre for Healthy Societies (directed by Professor Alex Broom, University of Sydney).

This fellowship resulted in the design and implementation of the QSAP intervention (Queensland surgical

antibiotic prophylaxis) which was trialled at three sites and is now published in BMJ Open. The QSAP study, using the Barriers-Enablers-Ownership approach demonstrated that consultant leadership in other specialties is crucial for antibiotic improvement, and that sustainable improvement in prescribing over time can occur within surgical teams that have team engagement in quality improvement. However, it also demonstrated that the engagement and ownership of teams can be limited by contextual factors, including local resource constraints and team continuity, meaning that where improvements are not occurring we need to examine the wider context influencing the ability to implement changes. The findings from this study will be used to inform further antibiotic optimisation interventions and additionally provides unique insights into the potential for (and barriers to) quality improvement strategies within medical teams more broadly.

This research team continues their extensive programme of work, currently funded by the ARC Linkage Grant Program, and is currently examining the multilayered influences on antimicrobial use, including health system/institutional priorities, regulatory and governance factors.

Meet our research fellows



**Queensland
Government**

Queensland Advancing Clinical Research Fellowships

The Queensland Advancing Clinical Research Fellowships (CRF) program delivers on a key commitment by Queensland Health (QH) in the Queensland Advancing Health Research 2026 Strategy, 'to design, develop and fund new fellowships programs with a clear focus on translation into clinical practice and improved health outcomes'.

The CRFs support QH clinician researchers to undertake research linked to their practice. The program recognises that clinician researchers (including doctors, nurses, dentists, allied health practitioners and clinical scientists) are uniquely placed to identify clinical issues that can benefit from further research, lead patient focussed research discoveries and facilitate improved patient care through research translation.



Associate Professor (Griffith University) Rohan Grimley 2020-2023

The effects of financial incentives to improve stroke unit access in Queensland on outcomes and hospital processes of care

Governments are increasingly using financial incentives to encourage improvements in the quality of healthcare. There is conflicting evidence regarding whether such incentives achieve better outcomes for patients. In 2012, the Queensland Department of Health initiated financial incentives to improve access to stroke unit care because of the strong association with this intervention and outcomes. Rohan's research will examine whether this scheme has resulted in improved outcomes for patients, and what effect it had on hospital costs and bed use. The resulting information will help local and international policy makers to determine whether these schemes are likely to be useful. This research forms part of Rohan's PhD studies.

Anticipated project outcomes:

- Improved process of care associated with implementation of the Queensland Quality Improvement Payment for Stroke Unit Care
- Implementation of a model for design and implementation of pay for performance (P4P)
- Place Queensland Health in the spotlight in this important area of health policy, and provide a model for implementation of hospital P4P programs locally, nationally, and internationally
- Make available a mechanism to improve patient outcomes in any high-volume clinical areas where evidence-practice gaps are, unfortunately, ubiquitous
- Foster collaborations between researchers, clinical networks, healthcare purchasing branch, and data linkage.



Associate Professor (University of Queensland) Rathika Krishnasamy 2019-2023

Development and Implementation of Innovative Pragmatic Trials to Improve Patient-centred Outcomes in Dialysis

Dialysis patients have a 10-to 100-fold increased risk of dying compared to the general population. These patients face multiple challenges managing the complications of kidney disease resulting in frequent hospitalisation and reduced quality of life. Evidence-based treatment options are lacking for dialysis patients despite an exponential increase in disease burden. Rathika's research encompasses a golden opportunity to explicitly define the past barriers to and enablers of nephrology trials, evaluate feasibility of incorporating pragmatic, cost-effective strategies in trial design and implement an international, large, simple pragmatic trial to improve clinical outcomes for dialysis patients.

Anticipated project outcomes:

- Development of collaborations
- Enhance the reputation of Queensland's trial expertise on a global stage
- Development of research capacity
- Translation of clinical practice for better outcomes for patients with kidney disease worldwide.



Dr Melissa Nataatmadja 2020-2023

Predicting and facilitating success on home dialysis, through understanding of burden, quality of life and patient outcomes

Home dialysis therapies are less costly to the health system and allow greater independence compared to facility-based dialysis. However, uptake and sustainability of home dialysis therapies are affected by the burden and responsibility associated with a patient-performed treatment and may lead to therapy burnout. This research forms part of Melissa's PhD program and incorporates multiple studies to understand the impact of home dialysis (peritoneal dialysis and home haemodialysis) on patient and caregiver quality of life, life participation and burden. The research also includes the investigation of strategies to improve quality of life and long-term success on home dialysis therapies.

Anticipated project outcomes:

- Provide an opportunity for Queensland to become a leader in consumer engagement for research
- Understanding of the true impact and barriers of home dialysis, and development of ways to improve long-term success on a home dialysis modality
- Improvement of patient outcomes.



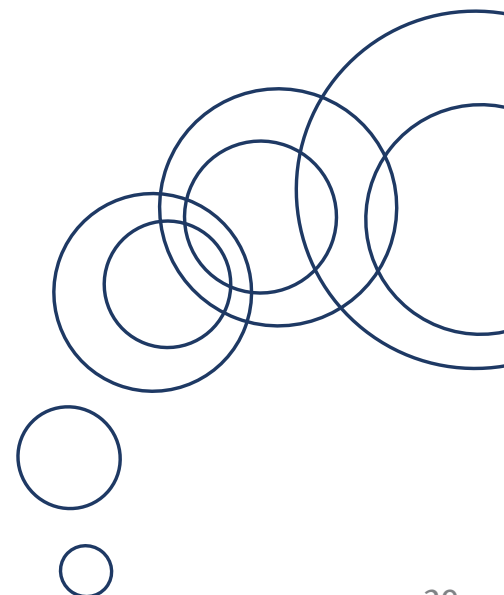
Dr Rochelle Ryan 2020-2023

Peri-Operative Pharmacokinetics of Surgical Antibiotic Prophylaxis

Wound infections increase patient morbidity, mortality, and healthcare associated costs. Antibiotics are administered at the beginning of surgery to prevent wound infections. There is strong evidence to recommend which type of antibiotics to administer to patients to prevent infection, however, the evidence to support the optimal dose is lacking. Rochelle's research, which forms part of her PhD studies, seeks to clarify the optimal doses of antibiotics to be given to patients at high risk of infection to ensure that the concentration required to prevent infections is obtained in the surgical wound. This may reduce the risk of surgical wound infections in surgical patients. Rochelle is currently on maternity leave and will commence her research in April 2021.

Anticipated project outcomes:

- Production of a computer-generated simulated population group for which we can test dosing regimens and predict the likelihood of therapeutic success. Resultant optimal dosing regimens may be used to inform future dosing guidelines. This is an approach that is accepted by the Food and Drug Administration and European Medicines Agency for which the team at The University of Queensland Centre for Clinical Research have a large number published papers in peer reviewed journals.



Consumer Research Engagement Group

A new Consumer Research Engagement Group (CREG) was formed in 2020 to provide a forum for the interaction between consumers and SCHHS researchers. The CREG membership comprises volunteer health service consumers and community members with an interest in supporting the research activities of SCHHS. The group meetings are attended by SCHHS Clinical Director of Research, Manager of Research, and Principal Engagement Officer. Members can provide valuable insights and advice to the development of research priorities and research project protocols based on their experience of the health service as patients, family members and carers. The value of this input is most evident in the 'planning', the 'doing' and the 'sharing' of research.

PURPOSE:

- Provide a forum for the interaction between consumers and SCHHS researchers for the sharing of insights, perspective

and considered feedback on research plans and activities across the health service.

- To facilitate and support the involvement of consumers and the community in the development and oversight of healthcare related research projects being undertaken, or being developed, across the health service
- To represent the consumer perspective and provide responsive feedback regarding opportunities to strengthen research project design and delivery to optimise the attraction and involvement of consumers in clinical research and clinical trials offered by SCHHS

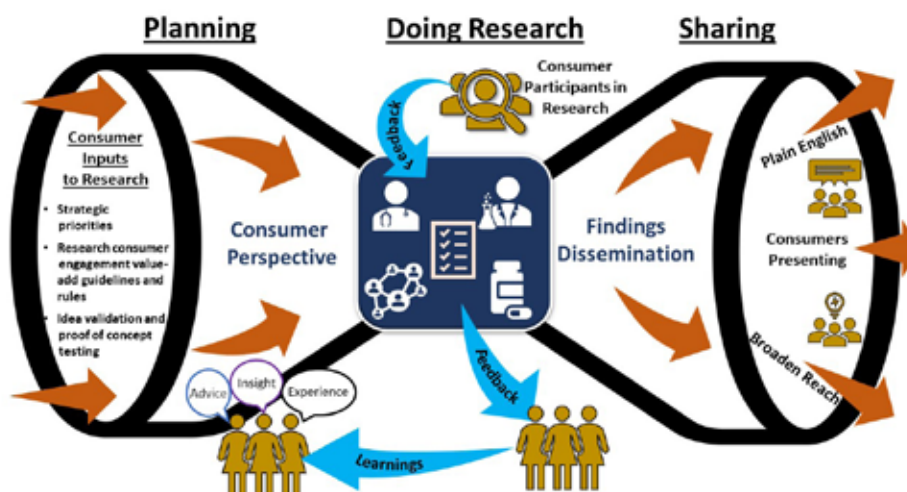
SCOPE:

- To actively review and provide feedback on individual research projects under development with lead SCHHS researchers to provide consumer perspectives on aspects of research purpose, design and communication of finding
- To provide a consumer perspective to research related

issues faced by the RCC and CTSC from time to time as requested by the Clinical Director Research

- To endeavour to provide suitable consumer representatives from the group to participate researcher presentations, research-related committee meetings or clinical department research forums when requested
- To recommend research initiatives and identify consumer research priorities in the community to the Clinical Director Research to initiate communication with relevant clinical departments or SCHHS researchers where appropriate
- Support achievement of various components of the engagement of consumers in research as part of the National Clinical Trials Framework Standard

If you know someone in the community who you think would make an excellent member of our CREG, please have them contact the SCHHS Principal Engagement Officer via email: SC-engagement@health.qld.gov.au



Consumer input in action

Clinical-Academic Collaborative PhD Scholarship Program

Aiming to promote high-level research within SCHHS, the Clinical-Academic Collaborative PhD Scholarship Program intends to support clinicians to collaborate with academic institutions on research projects linked to their practice, and gain experience supervising PhD students undertaking doctoral-level research.

The program recognises that clinician researchers are uniquely placed to identify clinical issues that can benefit from more research and, by undertaking that research in collaboration with academic experts from supporting disciplines, add further value.

The PhD candidate's key role is to produce preliminary data and proof of concept for the research project.

This allows the SCHHS supervisor and academic collaborator to increase their number of publications, track record, and competitiveness in their applications for larger and more sustainable funding schemes in the future.

The 2020 recipient was SCHHS Senior Staff Specialist in Cardiology, Professor Tony Stanton. For the Cardiology Department, the Clinical-Academic PhD Scholarship Program will allow the building of research capacity, foster new and exciting collaborations, and address an important area of cardiovascular health and rehabilitation. The Cardiology PhD program will bring together clinicians and researchers from across Sunshine Coast University Hospital and USC. The work will focus on patients who are at a high risk of cardiovascular events, such as people who have previously had

vascular surgery, and establish how cardiac-rehabilitation can be tailored to their needs to improve quality of life, prevent the progression of disease, and ultimately improve life expectancy and reduce the need for hospital care.



*2020 recipient Professor Tony Stanton
SCHHS Senior Staff Specialist in
Cardiology*



*Associate Professor Chris Askew
USC and SCHI Collaborator*

SERTF/ Wishlist research funding

Each year, SCHHS Study, Education, Research Trust Fund (SERTF) Committee partner with SCHHS hospital foundation Wishlist, to support SCHHS research projects as part of SCHHS SERTF scheme.

The SERTF scheme is a long-standing initiative which supports SCHHS staff to engage in study, education and research for the purposes of professional development above and beyond mandatory and requisite training requirements, and in alignment with the strategic priorities of the organisation.

The SERTF scheme aims to achieve the following objectives:

- To support individual study, enable education, and fund research, to deliver better health outcomes for the community
- Contribute to balancing out access to professional development across streams within the organisation and maximising the amount of quality professional development in SCHHS especially for those who do not receive any dedicated financial allowance for this purpose
- Invest in ‘our people’ by supporting employees to undertake study, education or research, inspiring a workplace where staff thrive and know they are valued, leading to an increase in staff and knowledge base retention
- Grow research and education capability through contributing to an organisational culture of continuous learning and promoting sustainability in these areas.

Reducing emergency caesarean birth for fetal distress

in women with small or poorly grown infants using Sildenafil Citrate - RidStress2RCT

Collaborative project with other major maternity hospitals in the south east corner such as the Mater and the Royal Brisbane Women’s Hospital.

A/Prof Gregory Duncombe
SCHHS Clinical Director, Maternal Fetal Medicine (Women’s & Children’s)

Study aims:

- Investigate if the drug Sildenafil can be safely administered to laboring women to reduce stress in labour for small babies and therefore their need for caesarean birth
- Change clinical practice and reduce healthcare costs and the incidence of adverse maternal and perinatal outcomes
- Improve the intrapartum care of women within SCHHS and throughout Queensland and Australia.

*Associate Professor
Gregory Duncombe
- SCHHS Clinical Director,
Maternal Fetal Medicine
(Women’s & Children’s) and
SERTF/ Wishlist Research
Grant Recipient 2020*



*Professor Sailesh
Kumar,
a Senior Specialist of
Maternal Fetal Medicine/
Obstetrics & Gynaecology at
the Mater Hospital is
Co-Investigator on the study*



SERTF/ Wishlist research funding

Tackling antimicrobial resistance

Pseudomonas Aeruginosa Bloodstream Infections, clinical outcomes, resistance mechanisms and virulence

Dr Andrew Walczak

SCHHS Infectious Diseases Advanced Trainee completing a Masters of Infectious Diseases, with a particular research interest in antimicrobial resistance

Study aims:

- Gain better understanding of resistant bacteria
- Contribute to the growing worldwide issue of antimicrobial resistance
- Inform the improved management of these infections in the future.

Discharging patients from hospital

Perspectives of hospital doctors and general practitioners

Dr Edwin Kruids

SCHHS General Practice Liaison Officer

Study aims:

- Obtain an in-depth understanding of perspectives on the barrier and facilitators of the discharge process from hospital to community
- Respond to an identified lack of evidence in the international and Australian literature about the effective components of the discharge process from outpatient departments to community
- Produce a range of benefits that could lead to improved access to hospital specialist services, improved continuity of care, development of sustainable and efficient services and the delivery of safe services as close as possible to where people live.

*Dr Edwin Kruids
GP Liaison Officer
and SERTF/ Wishlist
Research Grant
Recipient 2020*



Optimising antimicrobial use in diabetic wound care

Where resistance testing meets clinical practice: The interface between results and meaning

Dr Denise Lijie Kee

Advanced Trainee General and Acute Medicine

Study aims:

- Evaluate the utility of wound swabs in the management of diabetic foot ulcers
- Optimising the use of antimicrobials
- Identify areas of improvement with the use of wound swabs and antimicrobials in the management of diabetic foot ulcers
- Reveal aspects of pathology and antimicrobial stewardship that need to be optimised
- Develop interventions to improve these areas.

SERTF/ Wishlist research funding

Determine genetic and epigenetic markers of proliferating naevi in high risk melanoma patients

Associate Professor Helmut Schaidler

SCHHS Senior Medical Officer and internationally recognised expert in melanoma biology and prevention

Study aims:

- Determine genetic and epigenetic markers in growing moles
- Address the high incidence of melanoma on the Sunshine Coast
- Harness the advent of 3D whole body photography (3D-WBP) which allows for the first time, a single chance to perform naevus surveillance at unprecedented quality in high-risk individuals [SCHHS, receiving the second public 3D-WBP in Queensland, is in the unique position to be at the forefront of research related to targeted screening]
- Improve knowledge and understanding about the feasibility of short interval documentation in high-risk individuals
- Assess the molecular profile of changing moles in high-risk melanoma patients
- Address large gaps in our scientific knowledge relating to the transition from benign moles to melanoma.

Better outcomes for children with developmental and behavioural difficulties

Advanced Allied Health Practice: Parental engagement and motivation in managing children with developmental and behavioural difficulties

Julie Creen

SCHHS Advanced Occupational Therapist, and PhD candidate

Study aims:

- Evaluate and identify opportunities for improving the experience, engagement and motivation of children and families attending allied health outpatient services for children with developmental, learning and behavioral difficulties
- Provide some further knowledge in how clinicians can deliver outstanding patient care, to enhance outcomes through empowering families to be motivated and engaged in managing children's needs.

Julie Creen

presenting at the Occupational Therapy Australia National Conference 2019.



Birawan midwifery service: Use of Yarning Circles to understand Aboriginal women's experience of maternity services at SCUH

Josie Greaves

SCHHS Registered Nurse and Midwife

Study aims:

- Understand the experience of Aboriginal and Torres Strait Islander women who have received care through SCHHS Birawan midwifery team [SCHHS Birawan midwifery team aims to provide culturally responsive and family centered care with the support of the Hospital Liaison Officer team at SCUH and Nambour, to improve not only health outcomes but also the experience of care.]
- Investigate the perception of the broader Aboriginal and Torres Strait Islander community about program delivery, cultural safety and impact on health outcomes
- Adopt a qualitative data collection approach using semi-structured interviews, incorporating yarning with a culturally sensitive personal and conversational method
- Assess and improve the cultural capacity of the Birawan program, and strengthen relationships with the community by providing them with an opportunity to have a say in how maternity services are designed and delivered
- Improve service delivery and community engagement.

Integration of MRI into the cancer care pathway

Functional Imaging Guided Radiation Therapy using Diffusion-Weighted MRI

Dr Myo Min

SCHHS Senior Radiation Oncologist

Study aims:

- Investigate innovative Magnetic Resonance Imaging (MRI) therapies for certain cancers
- Integrate Diffusion-weighted MRI (DW-MRI) [a type of functional MRI sequence that provides information on the cellular density of tissue] into the cancer care pathway
- Lead the way in the use of this technology by implementing Queensland's first Magnetic Resonance Simulator (MRS) for radiation therapy planning, whereby clinicians can use functional image data to target a biologically relevant area of the tumour with a higher dose, aiming to improve oncological outcomes
- Extend the application of this technology to further benefit patients and strengthen the strong culture of collaboration between departments and intraprofessional learning that has already resulted from the MRS project
- Improve oncological and quality of life outcomes for cancer patients within SCHHS community.

Innovations in early skin cancer treatment

Pilot comparison of a combination of topical 5 per cent fluorouracil (5FU) and calcipotriol with 5FU in the treatment of early skin cancer

Dr Leith Banney

Head of the SCHHS Dermatology Department

Study aims:

- Compare the efficacy of two different topical creams in the treatment of precancerous and early cancerous skin lesions
- Clarify whether the combination of Vitamin D with 5 per cent fluorouracil cream is better tolerated than standard skin cancer treatment
- Address the increase in skin cancer rates in adults over 65 in Queensland, particularly on the Sunshine Coast
- Change the management of precancerous and early cancerous skin lesions and provide a more cost-effective treatment for patients with these conditions.

Dr Rachel Pugh and Dr Hannah Gribbin will be working with Dr Leith Banney to recruit participants for this project, organise study visits, and collate and analyse results. Both Dr Pugh and Dr Gribbin have a keen interest in dermatology and research.



Focus on quality of life for caregivers

Caregivers of treatment modalities for the infirm elderly with end stage kidney disease: The Co-TIMELY study

Associate Professor Nick Gray

SCHHS Director of Renal Medicine

Study aims:

- Investigate the quality of life and burden among people caregiving for conservative care and elderly dialysis patients
- The first study to examine quality of life and burden of caregiving for the infirm elderly with kidney failure in a longitudinal observational cohort at multiple sites
- Inform patient and caregiver decision making, and ultimately better support caregivers
- Collaboration with the Sunshine Coast Health Institute, USC, and other key external research partners.

Associate Professor Nick Gray – SCHHS Director of Renal Medicine and SERTF/ Wishlist Research Grant Recipient 2020.



SERTF/ Wishlist research funding

Emergency Department treatment of the drowning victim

Dr Ogilvie Thom

SCHHS Emergency Department Senior Staff Specialist

The study is a collaborative effort between Dr Thom, Clinical Nurse Kym Roberts, and the Emergency Department team

Study aims:

- Fill the knowledge gaps in the treatment of the drowned patient, particularly with regard to the lung injury associated with drowning
- Create a comprehensive database of information on drowning patients presenting to the SCHHS Emergency Departments from 2015 to 2022
- Answer questions on the best way to assist the breathing of drowning patients, if the treatment and outcomes in female drowning differ from males and why, and to determine if the classification system of drowning severity in common use is valid in an Australian population
- Inform future treatment guidelines to better prevent death from drowning.

Validation of Clinical Trial Outcomes Using Hospital Administrative Data and Electronic Medical Records – A Data Linkage Project

Associate Professor Rathika Krishnasamy

Academic Clinical Nephrologist at SCUH, Associate Professor for the Faculty of Medicine, and Clinical Trialist with Australasian Kidney Trials Network at The University of Queensland (UQ)

Study aims:

- Link clinical trial data with electronic medical records
- Investigate whether electronic medical records (EMR) and administrative data relating to hospital admission codes will provide cost effective, accurate data for clinical outcomes of interest
- Assess the feasibility, accuracy and validity of clinical trial outcomes using routinely collected hospital administrative data and EMR in Queensland compared to electronic case report forms collected in RESOLVE (Randomised Evaluation of Sodium dialysate Levels on Vascular Events) Trial: one of the largest pragmatic, cluster randomised dialysis trial conducted globally
- Establish a validated, cost-effective measure of trial data collection in Queensland and be implemented in future clinical trials.

Associate Professor Rathika Krishnasamy

– SCHHS Nephrologist and SERTF/ Wishlist Research Grant Recipient 2020.



Coverdale-Anstey Young Investigator Prize

2020

In November, the Sunshine Coast Junior Doctors Society (SCJDS) was excited to award the 2020 Coverdale-Anstey Young Investigator Prize to Dr Giles Kisby. This award is the only annual award available to support novice medical researchers within SCHHS and is a way to recognise the critical role of research in the training and development of junior medical officers.

SCHHS and SCJDS co-hosted a research presentation evening where Dr Kisby presented his project on the use of Ultrasound in Testicular Torsion. This work included reviewing 146 testicular ultrasounds that were requested in relation to suspected torsion injuries. An intervention phase with posters (designed in

conjunction with Choosing Wisely), a Memorandum, and teaching sessions were used to raise awareness of the importance of surgical advice before ultrasound. At re-audit, the number of ultrasounds requested per month had reduced from 12.2 to 2.4 and surgeons were involved before ultrasound request in 95 per cent of cases, improved from 38 per cent of cases pre-audit. The findings of the project suggested that, as well as improving alignment with state guidelines, the intervention was saving money, saving resources, and most importantly avoiding a potential cause of delay to urgent surgery.

As well as working in the Emergency Department, Dr Kisby is researching differences in uptake of radiolabelled glucose at PET scan of prosthetic heart valves with and without infective endocarditis. He is developing a

special interest in radiology-oriented projects, matching the direction of his career aspirations. The Coverdale-Anstey Young Investigator Prize money will go towards costs related to the PET research, as well as to the research interests of Dr Karl Ringrose (Urology registrar) and Dr Luke Campbell (Critical Care Senior House Officer) who also contributed to the ultrasound in testicular torsion project.

The annual monetary prize of \$1000 is open to all medical students, interns, junior doctors, registrars and fellows who are currently employed within SCHHS or are in a current clinical placement within the region. Please contact the Sunshine Coast Junior Doctors Society for information regarding the Coverdale-Anstey Young Investigator Prize – Email: executivescjds@gmail.com.



Allied Health 2020 Service Group Report

The Allied Health Plan for Research 2017-2022 is progressing, with the key priorities for 2020 being:

- Growth of research activity by making research accessible for clinicians through considering research methodologies which combine clinical practice and research activity. For example, encouraging observational studies and/or clinical activity audits to identify areas for improvement and the use of evidence-based practice and clinical guidelines that measure key clinical indicators.
- Development of support and infrastructure specific for allied health through communicating current SCHHS resources and education for allied health staff to enable skill building, capacity building and culture development in implementing research. The professional directors have visibility of the research governance repository for allied health research within SCHHS and external, to know what past,

current or future research is occurring in allied health.

- Development of a strong research culture within the allied health workforce by engaging staff to actively promote research within SCHHS.

Some key actions in 2020 include:

- Allied health research mentors identified to support staff
- Participation in SCHHS or Queensland Health research events and other symposiums
- Membership on the research and clinical trials committees
- Establishment of the allied health research committee with the aim to identify new innovative ideas and to progress development in research.

Across allied health professions there has been much research activity occurring which is highlighted within each directorate in the annual report. There were also several new and continuing PhD students in 2020 and some who completed their PhD and

were recognised within the allied health bulletin. These employees contribute greatly to the ongoing development of research within allied health and we thank them for their dedication and hard work in taking on the journey of completing a PhD.



Gemma Turato, Executive Director Allied Health

Community and Preventive Health 2020 General Manager Research Report

Research Contact:

Wendy Kinton

wendy.kinton@health.qld.gov.au

The Community and Preventive Health (CPH) Directorate has been building its research activity over the past five years by engaging in collaborative research opportunities and investigator-led projects. While early in the research journey, the directorate is laying down the foundations for increased research capacity and capability.

Research Interests

Current:

- Breast Screening
- End of Life Care
- Oral Health
- Palliative Care
- Sexual Health

Future:

- Continue to build research capacity and capability across the CPH Directorate
- Continue to provide opportunities for Honours Students' research projects in collaboration with USC
- Building collaborative research opportunities with partner organisations, including academic and industry partners.

We currently have 9 staff actively involved in research within the department including:

- Jessica Hambly
- Chris Martin
- Elaine Mawdsley
- Wendy Pearse
- Sandra Peters
- Prem Ram
- Suzanne Robson
- Alison Roper
- Paul Smith
- Louise Welch

The directorate has contributed to several statewide and national data collections, including:

- Australian HIV Observational Database (AHOD) (The Kirby Institute, Sydney NSW), led locally by Dr David Sowden (Infectious Diseases), Dr Kuong Taing and Paul Smith (Sexual Health)
- Prevalence of Advance Care Directives in Australian Health and Residential Aged Care Services (Advance Care Planning Australia, Melbourne, Victoria), led locally by Wendy Pearse (End of Life Care)

- Delivering effective dental healthcare in 2020-2030: A national longitudinal partnership study of burden of oral diseases in Australia, led locally by Dr Elaine Mawdsley (Oral Health)
- Evaluation of the Statewide Rural and Remote Supportive and Specialist Palliative Care Telehealth Service, led locally by Dr Prem Ram (Palliative Care)
- University of Technology (UTS) Rapid Response Pharmacovigilance in Palliative Care, led locally by Dr Louise Welch (Palliative Care)

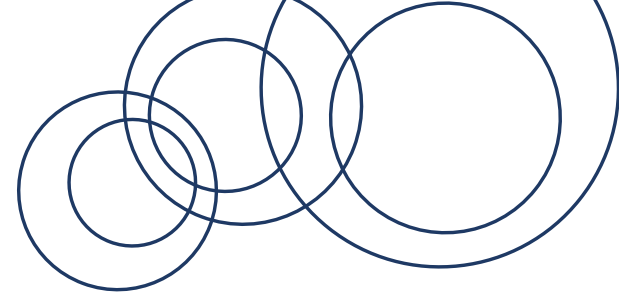
During 2020, staff within CPH undertook research activity in the following areas:

Breast Screening:

- Dr Alison Roper: Breast cancer detection rates in high risk groups of women participating in Mammography screening

Palliative Care:

- Chris Martin: Quality of life for palliative patients and their families, the role of Acceptance and Commitment therapy
- Suzanne Robson: Experiences of emergency department staff and



consumers of a dedicated end of life care resource.

Collaborations were formed with SCHHS services and departments, and academic partners to undertake the following projects:

End of Life Care:

- End of life care audit: Wendy Pearse (End of Life Care), Dr David Gutierrez (Intensive Care), Dr Greg Plowman (General Medicine) and Ven-nice Ryan (Social Work)
- USC (University of the Sunshine Coast) Occupational Therapy Honours Students' projects: Evaluation of the Handover Bags for deceased patients' belongings; and Using the Kawa model in consumer focus groups about end of life care

Infectious diseases:

- Stability of Beta-Lactam Antimicrobials During Home

Intravenous Antimicrobial Therapy (Dr Jessica Hambly – Hospital in the Home/Pharmacy, Dr Keat Choong and Dr Shradha Subedi - Infectious Diseases)

Other research contributions:

- Contributors to the Australian HIV Observational Database (AHOD) [D. Sowden, K. Taing, P. Smith, Clinic 87, Sunshine Coast Hospital and Health Service, Nambour] Australian HIV Observational Database Annual Report 2020. The Kirby Institute, UNSW Australia, Sydney NSW. Volume 20, Number 1: December 2020.
- Participants in the Advance Care Planning National Prevalence Study, Prevalence of advance care planning documentation in Australian health and residential aged care services. Advance Care Planning Australia, Austin Health, Melbourne.

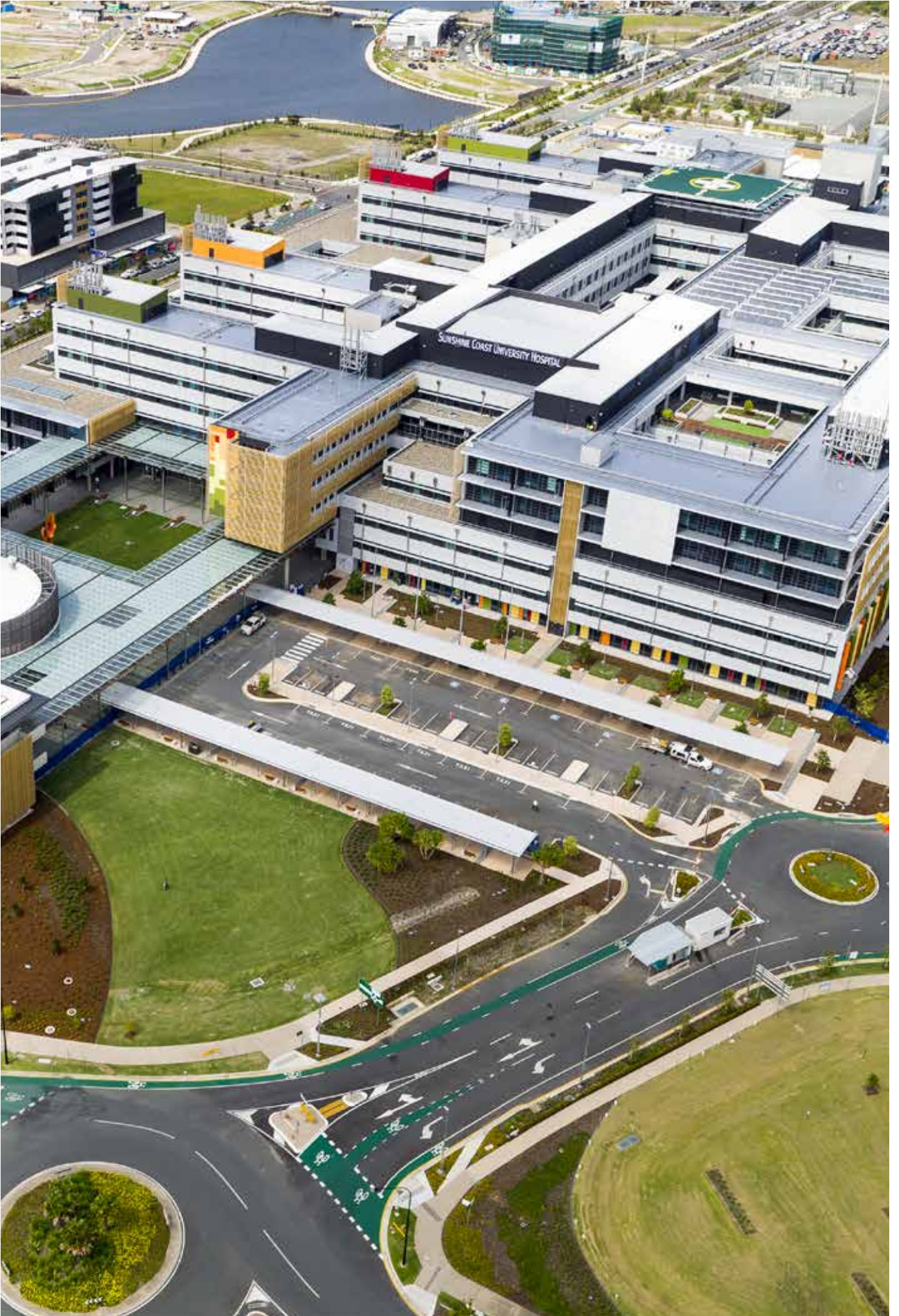
There are currently three PhD students across the CPH Directorate:

- Chris Martin
- Wendy Kinton
- Lucy Sargent

Active research grants:

SCHHS Study, Education, Research Trust Fund (SERTF) (\$20,000): Therapeutic Drug Monitoring of 24-hour beta-lactam antimicrobial infusions in elastomeric pump devices – Hospital in the Home; **Jessica Hambly**





Mental Health and Specialised Services Group 2020 General Manager Research Report

Mental Health and Specialised Services (MHSS) experienced positive growth in its research culture and activity in 2020. I am proud to present the highlights and progress in being able to translate research findings into real benefits for our

consumers and their carers and our staff. Throughout this time, nine studies were active, in follow-up, or undergoing preparation for site specific approval throughout the year.

The MHSS Research Committee has been operational since 2018 and has

worked towards enacting the process and structures established by SCHHS Research Governance Unit.

The 2020 MHSS Research Strategy supports opportunities that:

See table below >>

GOAL 1	Grow research: To build the research capability of the MHSS through mentoring within the service, collaborating with other services in SCHHS, and partnering with external research bodies.
GOAL 2	Research support and infrastructure: To develop an infrastructure that promotes growth and sustainability of research activity within the service between the MHSS and other services within SCHHS.
GOAL 3	Research culture: To develop and promote a strong and active research culture within SCHHS MHSS.
GOAL 4	Research governance: Effective oversight and management of research activity within SCHHS MHSS.
GOAL 5	Funding and financial management: Efficient and effective services to respond to and support financial and funding processes.

Some of the research activity that has been generated is included below:

- Evaluating reflective practices for nursing staff in an acute care hospital setting
- Experiences of supported accommodation for people with a mental illness
- Health-e Mind participatory and personalised mental health platform to encourage and support healthy living behaviours for people with mental illness
- Investigating the narrative abilities of adolescents who present to Community Youth Mental Health Services with a primary anxiety disorder
- Maximising the scope of practice:

Mental Health Nurse Practitioner addressing community clinical complexity and unmet consumer need

- Service evaluation of the Assertive Mobile Youth Outreach Service from Child Youth Mental Health Services

During 2020, Mental Health and Specialised Services undertook collaborations with academic partners and external stakeholders including:

- Children’s Health Queensland Hospital and Health Service
- Commonwealth Scientific and Industrial Research Organisation (CSIRO)
- Griffith University
- La Trobe University

- Central Queensland, Wide Bay and the Sunshine Coast PHN (Primary Health Network)
- The University of Queensland
- USC
- MHSS External Research Grants
- Emergency Medicine Foundation (\$96,676): An evaluative study of a collaborative ED mental health program; Barrie Field, Annette Woodhouse and others
- Nurses and Midwives Innovation Fund, Queensland Health (\$215,667): Maximising scope of practice Mental Health Nurse Practitioners addressing community clinical complexity and unmet customer need; Rob Leerentveld, Annette Woodhouse

Research Students

Adele Wallis (Doctor of Philosophy)

Fiona Jarret (Master of Philosophy)

Awards

I am always pleased to see our staff recognised for their outstanding achievements, among those recognised was Dr Eliot Frickey, earning the The Royal Australian and New Zealand College of Psychiatrists

psychotherapy research award for his work on ‘Therapeutic alliance and psychoeducation for depression – testing the effectiveness of a brief intervention training program: A pilot study.’ His study aimed to obtain preliminary evidence of the feasibility and effectiveness of a brief training module designed to enhance the quality of the working alliance between patients with MDD and

psychiatric registrars, and to better understand the perceptions of the barriers and facilitators to delivering psychoeducation and establishing a therapeutic alliance with depressed patients, from the perspective of psychiatric registrars.

Publications

Refer to Sunshine Coast Mental Health and Specialist Services research page for details.





Departmental reports

Allied Health Department

Community Chronic Conditions Service	Nutrition and Dietetics	Occupational Therapy	Physiotherapy
Podiatry	Psychology	Speech Pathology	Women's and Children's Service (Allied Health)

Community Chronic Conditions Service

Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
4	5	-	\$180,000*	-

Research Interests	Research Publications in 2020	Research Higher Degree Students
Food insecurity	Dryland, R., J.-A. Carroll, and D. Gallegos, Moving beyond Coping to Resilient Pragmatism in Food Insecure Households. <i>Journal of Poverty</i> (IF 0.96), [First published online 04 August 2020]: p. 269-286. DOI: 10.1080/10875549.2020.1799287	Rhonda Dryland

Nutrition & Dietetics

Research Contact:

Catherine McFarlane

catherine.mcfarlane3@health.qld.gov.au

Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
4	5	-	\$180,000*	-

Research Interests	Research Publications in 2020	Research Higher Degree Students
<ul style="list-style-type: none"> Gestational Diabetes Synbiotics: Easing renal failure by improving gut microbiology II (SYNERGY II) A randomised trial My Health My Way - State-wide Implementation of electronic patient-reported outcome monitoring (ePROMs) to optimise allied health service for Queenslanders with head/neck cancer Digital Health: Investigating the impact of a clinically led innovation for stroke on integrated care, interprofessional practice and real-time data analytics 	<ol style="list-style-type: none"> Meloncelli, N., A. Barnett, and S. de Jersey, Staff resourcing, guideline implementation and models of care for gestational diabetes mellitus management. The Australian & New Zealand Journal of Obstetrics & Gynaecology (IF 1.644), 2020. 60(1): p. 115-122 DOI: 10.1111/aj0.13032 Meloncelli, N., A. Barnett, and S. de Jersey, An implementation science approach for developing and implementing a dietitian-led model of care for gestational diabetes: a pre-post study. BMC Pregnancy and Childbirth (IF 3.082), 2020. 20(1) DOI: 10.1186/s12884-020-03352-6 Meloncelli, N., A.G. Barnett, M. D Emden, and S.J. De Jersey, Effects of Changing Diagnostic Criteria for Gestational Diabetes Mellitus in Queensland, Australia. Obstetrics & Gynecology (IF 5.524), 2020. 135(5): p. 1215-1221 DOI: 10.1097/aog.0000000000003790 Robertson, S.T., R.S. Grimley, C. Anstey, and I.C. Rosbergen, Acute stroke patients not meeting their nutrition requirements: Investigating nutrition within the enriched environment. Clinical Nutrition (Edinburgh, Scotland) (IF 6.36), 2020. 39(5): p. 1470-1477 DOI: 10.1016/j.clnu.2019.06.009 Snelson, M., A. Biruete, C. McFarlane, and K. Campbell, A Renal Clinician's Guide to the Gut Microbiota. Journal of renal nutrition: the official journal of the Council on Renal Nutrition of the National Kidney Foundation (IF 2.929), 2020 DOI: 10.1053/j.jrn.2019.11.002 	<ul style="list-style-type: none"> Nina Meloncelli, conferred PhD July 2020, Queensland University of Technology Catherine McFarlane, University of Queensland, Faculty of Medicine Samantha Robertson, University of Queensland, School of Health and Rehabilitation Sciences

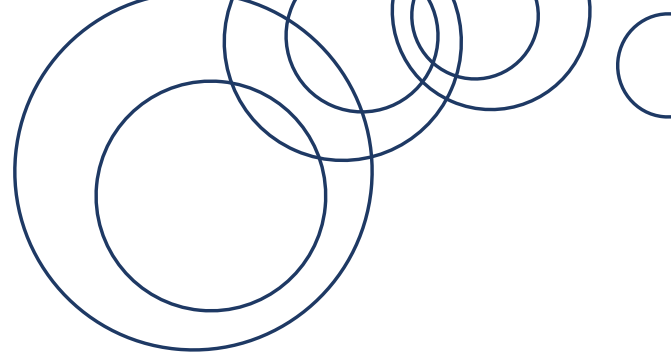
External Research Grants	Awards and special recognitions
<p>Allied Health Professions Office of Queensland (AHPOQ) 2019-2021 (\$5,095.25): Multisite Trial - Statewide implementation of electronic patient-reported outcome monitoring (ePROMs) to optimise allied health service for Queenslanders with head/neck cancer; awarded to SCUH (one of 4 sites involved in project)</p> <p>Digital Health CRC and Queensland Health co-funded grant (\$40,000 per year for 4 years + \$5,000 per year education expenses); awarded to SCUH (one of 4 sites involved in project)</p>	<p>SCHHS Allied Health Showcase Award for Research/Education: Katie Benton</p>

Occupational Therapy

Research Contact:

Kirsten Cook

kirsten.cook@health.qld.gov.au



Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
5	1	1	-	-

Research Interests	Future Research Plans/Interests	Research Higher Degree Students
<ul style="list-style-type: none"> Cognitive recovery in acute stroke (Alana Campbell) iNhome telerehabilitation to Enhance physical activity after Stroke Telerehabilitation (iNtensity Stroke Trial - Codesign and RCT) (Chris Tracey, Anna Macauliffe, Elizabeth Ryan) 	<p>Telerehabilitation (Randomised Control Trial)</p>	<ul style="list-style-type: none"> Alana Campbell, Seeking PhD Research Higher Degree Student UQ Suzanne Stuart, Graduate Diploma in Leadership, Seeking MSc Health Leadership Erin Appleton, MSc Health – Neuro Rehab Jenna Shore, MSc Health – Neuro Rehab

Orthopaedics

Research Contact:

Ritesh Dawra

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Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
3	4	-	-	-

Research Interests	Research Publications in 2020
<ul style="list-style-type: none"> • Use of direct oral anticoagulants in surgery for Neck of Femur (NOF) fractures, and outcomes (Matthew Graydon) • Extra-curricular Arthroscopic Release of Lateral Epicondylitis (Jessica Perry) • Utility of multidisciplinary team approach in prosthetic joint infection of hip, knee and shoulder (Jessica Perry) • Managing traumatic anterior should instability (John Bilenki) 	<ol style="list-style-type: none"> 1. Bilenki, J. M., and S. Platt, Sural nerve schwannoma: A case report. Foot (Edinb) (IF: 1.32), 2020. 45: p. 101746. DOI: 10.1016/j.foot.2020.101746

Physiotherapy

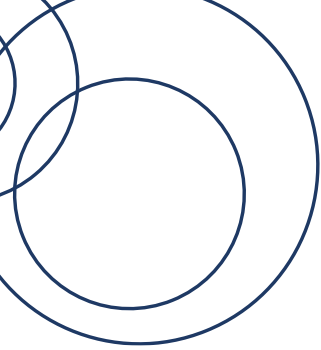
Research Contact:

Claire Stewart

Claire.Stewart@health.qld.gov.au

Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
16	10	3	\$554,972*	\$19,538

Research Interests	Future Research Plans/Interests	Research Higher Degree Students
<ol style="list-style-type: none"> The efficacy of telerehabilitation compared with centre-based community rehabilitation on time spent physically active in people with stroke: A pilot randomized controlled trial (Kate Walker) Development of a home-delivered telerehabilitation program to promote physical activity in stroke survivors: A co-design study AVERTDOSE - A Phase 3, Multi-Arm Multi-Stage Covariate-Adjusted Response-Adaptive Randomised Trial to Determine Optimal Early Mobility Training after Stroke (Elisabeth Lawson, Kate Walker) QEIDN - Queensland Early Detection and Intervention Network for children at risk of Cerebral Palsy (Rebecca Caesar) GAME - harnessing Neuroplasticity to Improve Motor Performance in Infants with Cerebral Palsy: A Pragmatic Randomised Controlled Trial (Rebecca Caesar) PREMTIME – Early prediction of typical outcome and mild developmental delay for prioritisation of service delivery for very preterm and very low birth weight infants (Rebecca Caesar) Reliability and validity study of the Modified Ober’s Test (Jesse Pesu) Primary contact physiotherapy services for musculoskeletal conditions: Patient experiences and outcomes (Hamish Beal, Kath Conway, Luke Goldston) Treatment of invasively ventilated adults with Early Activity and Mobilisation (TEAM) trial (Kate McCleary) TEAM Long-Term Cohort Sub Study (Kate McCleary) Interdisciplinary person-centred goal setting in rehabilitation services across Queensland (Amanda Baker) 	<ul style="list-style-type: none"> PARK-PICU: PICU Early Rehabilitation Point Prevalence Study (Kye Grant) Simulation observational research and workflow research related to COVID vaccination simulations – writing research and posters (Kate McCleary) ‘The perceived barriers and facilitators to implementation of early mobilisation within the TEAM Phase 3 Randomised Controlled Trial. A qualitative process evaluation study’; currently undergoing submission to governance for endorsement (Kate McCleary) ‘Interprofessional Education in Critical care: A consensus statement of the Australia New Zealand Educator network’ - Australian Journal of Clinical Education; being peer reviewed currently for publication (Kate McCleary) ‘Physio at Night’ - Multi-centre review of evening and overnight on-call physiotherapy services across QLD (Kate McCleary) 	<ul style="list-style-type: none"> Claire Stewart Rebecca Caesar Amanda Baker



External Research Grants	Top Research Publications in 2020
<p>Allied Health Professions' Office of Queensland (AHPOQ) (\$79,892): Primary contact physiotherapy services for musculoskeletal conditions - patient experiences and outcomes; Hamish Beal, Kath Conway, Luke Goldston</p> <p>National Health and Medical Research Council (NHMRC) funding for QEIDN and GAME studies</p> <p>State-wide Rehabilitation Clinical Network, Clinical Excellence Queensland, Healthcare Improvement Unit (\$320,000): funded project for Interdisciplinary person-centred goal setting in rehabilitation services across Queensland; Amanda Baker</p> <p>NHMRC grant: for TEAM trial</p> <p>Health Practitioner Research Scheme (\$155,080): for Telehealth project</p>	<p>CONFERENCE ABSTRACT Caesar, R., Systematic review of clinical tools used \leq 6 months to predict motor and cognitive delay in very preterm infants, American Academy of Cerebral Palsy Conference, September 23-26, 2020, New Orleans, USA.</p>

2020 Full Publication List

ARTICLES

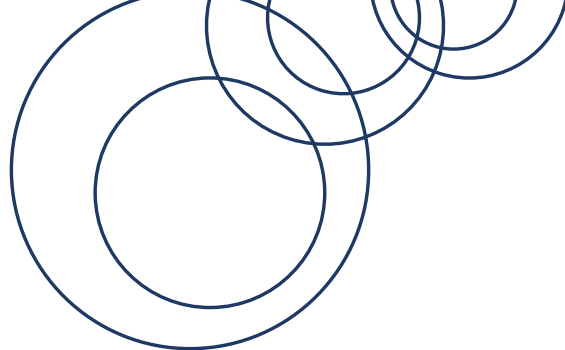
1. Caesar, R., P.B. Colditz, G. Cioni, and R.N. Boyd, Clinical tools used in young infants born very preterm to predict motor and cognitive delay (not cerebral palsy): a systematic review. *Developmental Medicine and Child Neurology* (IF 3.87), [First published online 13 November 2020]: p. 387-395 DOI: 10.1111/dmcn.14730
2. Grimley, R.S., I.C.M. Rosbergen, L. Gustafsson, E. Horton, T. Green, G. Cadigan, S. Kuys, N.E. Andrew, and D.A. Cadilhac, Dose and setting of rehabilitation received after stroke in Queensland, Australia: a prospective cohort study. *Clinical Rehabilitation* (IF 2.71), 2020. 34(6): p. 812-823 DOI: 10.1177/0269215520916899
3. O'Leary, S., M. Raymer, P. Window, P. Swete Kelly, D. Lee, L. Garsden, R. Tweedy, B. Phillips, W. O'Sullivan, A. Wake, A. Smith, S. Pahor, L. Pearce, R. McLean, D. Thompson, E. Williams, D. Nolan, J. Anning, I. Seels, D. Wickins, D. Marks, B. Diplock, V. Parravicini, L. Parnwell, B. Vicenzino, T. Comans, M. Cottrell, A. Khan, and S. McPhail, A multisite longitudinal evaluation of patient characteristics associated with a poor response to non-surgical multidisciplinary management of low back pain in an advanced practice physiotherapist-led tertiary service. *BMC Musculoskeletal Disorders* (IF 2.05), 2020. 21(1): p. 807 DOI: 10.1186/s12891-020-03839-5
4. Rosbergen, I.C.M., I. Tonello, R.A. Clark, and R.S. Grimley, Does hospital design impact on patient activity levels and time spent alone? *Disability and Rehabilitation* (IF 1.95), 2020 DOI: 10.1080/09638288.2020.1861117
5. Saw, A.E., D.J. Howard, A. Kountouris, A.S. McIntosh, J.W. Orchard, R. Saw, and T. Hill, Situational factors associated with concussion in cricket identified from video analysis. *Journal of Concussion*, 2020. 4: p. 2059700220947197. DOI: 10.1177/2059700220947197
6. Stewart, C., E. Power, A. McCluskey, and S. Kuys, Development of a participatory, tailored behaviour change intervention to increase active practice during inpatient stroke rehabilitation. *Disability and Rehabilitation* (IF 1.95), 2020. 42(24): p. 3516-3524 DOI: 10.1080/09638288.2019.1597178
7. Stewart, C., E. Power, A. McCluskey, S. Kuys, and M. Lovarini, Evaluation of a staff behaviour change intervention to increase the use of ward-based practice books and active practice during inpatient stroke rehabilitation: a phase-1 pre-post observational study. *Clinical Rehabilitation* (IF 2.71), 2020. 34(5): p. 607-616 DOI: 10.1177/0269215520911420
8. Stubbs, C., S. Mc Auliffe, A. Mallows, K. O'Sullivan, T. Haines, and P. Malliaras, The strength of association between psychological factors and clinical outcome in tendinopathy: A systematic review. *PloS ONE* (IF 2.87), 2020. 15(11): p. e0242568 DOI: 10.1371/journal.pone.0242568

Podiatry

Research Contact:

Helen Sheahan

Helen.Sheahan@health.qld.gov.au



Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
1	-	-	-	-

Research Interests	Future Research Plans/Interests	Research Higher Degree Students
<ul style="list-style-type: none"> Swab microbiology and resistant markers Post ulceration rehab and activity levels Evaluation of endocrine led high risk foot inpatient service 	<ul style="list-style-type: none"> Prevalence of osteomyelitis and further recurrent surgical intervention Prosthetic and Orthotic Care High Risk Foot Service dedicated clinician – results and outcomes 	<ul style="list-style-type: none"> Emmeline De Gruchy, Master Diabetes Management Kelli Kavney, Master of Public Health

Psychology

Research Contact:

Richard Spence-Thomas

Richard.Spence-Thomas@health.qld.gov.au

Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
1	1	-	-	-

Research Interests	Research Publications in 2020	Research Higher Degree Students
<ul style="list-style-type: none"> Health psychology research Psychology in palliative care Psychology led health interventions 	<ol style="list-style-type: none"> Middleton, R., W. Bernard, D. Lambe, T. Young, and B. Chan. Development and implementation of a psychologist-led complex patient multi-disciplinary team meeting (CP-MDTM) to address unmet psychosocial needs of patients with cancer: Experience from the Adem Crosby Cancer Centre, Sunshine Coast University Hospital and Health Service. e-Poster Presentation Clinical Oncology Society of Australia Annual Scientific Meeting 2020, Virtual conference, November 2020. 	<ul style="list-style-type: none"> Chris Martin, PhD Candidate: Mindfulness in Palliative Care Settings

Speech Pathology

Research Contact:

Julie Scott

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Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
9	-	-	*\$50,000	-

Research Interests	*External Research Grants
<ul style="list-style-type: none"> • Study of feasibility, acceptability, and potential effectiveness of Communication Access Training for staff (Julie Scott Advanced SP Rehabilitation SCUH) • Conversation Partner Training implementation study (SCHHS contributing SPs - Julie Scott, Jess Peng, Renee Dunning, Madeline Pan, Bridget Sullivan & Eloise Kerr) • Aphasia Recovery with Music Exposure Study (SCHHS contributing SPs - Julie Scott, Holly O'Donovan, Jess Peng & Bridget Sullivan) • Co-design of aphasia services for the new Queensland Aphasia Rehabilitation Centre (SCHHS contributing SPs - Julie Scott, Bridget Sullivan, Madeline Pan, Holly O'Donovan & Eloise Kerr) • Comprehensive Aphasia Therapy Program study (SCHHS contributing SP – Julie Scott); National Health and Medical Research Council grant in progress 	<ul style="list-style-type: none"> • Stroke Foundation Research Grant (\$50,000 total across multiple HHS sites): Conversation Partner Training; SCHHS contributing SPs - Julie Scott, Jess Peng, Renee Dunning, Madeline Pan, Bridget Sullivan & Eloise Kerr • National Health and Medical Research Council (\$ per participant allowance; recruitment and administration funding): Aphasia Recovery with Music Exposure Study [SCHHS is one of multiple sites]; SCHHS contributing SPs - Julie Scott, Holly O'Donovan, Jess Peng & Bridget Sullivan

Women's and Children's Service

Research Contact:

Julie Creen julie.creen@health.qld.gov.au

Rebecca Caesar rebecca.caesar@health.qld.gov.au

Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
2	4	3	\$59,908*	\$187,745**

Research Interests	*External Research Grants	Research Higher Degree Students	
<ol style="list-style-type: none"> Translating research into practice in the Neonatal Neurodevelopmental Clinic (NNC) at SCUH - a specialised developmental continuum of care for very preterm and very low birth weight infants and infants with birth trauma and adverse neonatal neurological events including Hypoxic ischemic encephalopathy (HIE), stroke, seizures, prolonged ventilation and Extracorporeal membrane oxygenation (ECMO) PREMTIME - Prediction of mild and typical outcomes in at risk preterm infants QEIDN - Early detection of infants at risk or with cerebral palsy: QLD Clinical network (QEDIN-CP) GAME - Triggering Neuroplasticity to Improve Movement: A Clinical Trial for Infants with Cerebral Palsy Parent and Child Engagement in Single Session Family Consultations/ Advanced Allied Health Practice 	<p>Allied Health Professionals Office of Qld, Health Practitioner Research Scheme 2019 (\$29,954) over 2 years: Parent and child experience of transdisciplinary advanced allied health practices: Child and adolescent developmental and behavioural outpatient clinics; Julie Creen</p>	<ul style="list-style-type: none"> Julie Creen Rebecca Caesar 	
	**Internal Research Grants		
	<p>Wishlist-SERTF Collaboration Research Grant (\$10,000) over 2 years: Advanced Allied Health Practice: Parental Engagement and Motivation in managing children with Developmental and Behavioural difficulties; Julie Creen</p> <p>Wishlist Research Higher Degree Grant (\$33,549) over 5 years: Early prediction of typical outcome and mild developmental delay for prioritisation of service delivery for very preterm and very low birth weight infants; Rebecca Caesar</p>		

Awards and special recognitions	Future Research Plans/ Interests	Research Publications in 2020
Occupational Therapy Australia PhD Student of the Year 2020, USC: Julie Creen	Choosing Wisely quality improvement and research initiatives	<p>ARTICLES:</p> <ol style="list-style-type: none"> Caesar, R., P.B. Colditz, G. Cioni, and R.N. Boyd, Clinical tools used in young infants born very preterm to predict motor and cognitive delay (not cerebral palsy): a systematic review. <i>Developmental Medicine and Child Neurology</i> (IF 4.87), 2021. 63(4): p. 387-395. DOI: 10.1111/dmcn.14730 Creen, J., A. Kennedy-Behr, K. Gee, L. Wilks, and M. Verdonck, Reducing time between referral and diagnosis in paediatric outpatient neurodevelopmental and behavioural clinics. <i>Journal of Paediatrics and Child Health</i> (IF 1.47), 2021. 57(1): p. 126-131. DOI: 10.1111/jpc.15156 <p>CONFERENCES:</p> <ol style="list-style-type: none"> Caesar R., P. Colditz, G. Cioni, and R. Boyd, Systematic review of clinical tools used ≤ 6 months to predict motor and cognitive delay in very preterm infants at 24 months corrected age. <i>American Academy of Cerebral Palsy and Developmental Medicine</i> (Poster crawl with Past Presidents); Virtual meeting; 24 September 2020.

Department of Anaesthesia and Perioperative Medicine

Research Contact:

Nicola Beauchamp Nicola.beauchamp@health.qld.gov.au

Rochelle Ryan Rochelle.ryan@health.qld.gov.au

Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
11	11	-	-	-

Research Interests	Awards and special recognitions	Research Higher Degree Students
<ul style="list-style-type: none"> Thromboelastography (TEG) in obstetrics Regional anaesthesia in rib fractures Just in Time Trial for teaching of nasal intubation Quality improvement studies for perioperative management of total knee replacement and for anaemia 	Queensland Advancing Clinical Research Fellowship: Dr Rochelle Ryan	<ul style="list-style-type: none"> Dr Rochelle Ryan, PhD candidate
	Future Research Plans/Interests <ul style="list-style-type: none"> SQUEEZE - a Multicentre International Observational Study of Perioperative Vasopressor Use Thromboelastography (TEG) in obstetrics Regional anaesthesia in rib fractures Just in Time Trial for teaching of nasal intubation 	

Top Research Publications in 2020

- White, L.D., R.A. Vlok, C.Y.C. Thang, M.I. D'Souza, and T.M. Melhuish, Oxygenation during the apnoeic phase preceding intubation in adults in pre-hospital, emergency department, intensive care and operating theatre environments. *Cochrane Database of Systematic Reviews* (IF 7.9), 2020. 2020(4). DOI: 10.1002/14651858.CD013558
- Riley, B., U. Malla, N. Snels, A. Mitchell, C. Abi-Fares, W. Basson, C. Anstey, and L. White, Erector spinae and serratus anterior blocks for the management of rib fractures: A retrospective exploratory matched study. *The American Journal of Emergency Medicine* (IF 6.0), 2020. 38(8): p. 1689-1691. DOI: 10.1016/j.ajem.2020.01.007
- Pattullo, S.J. and D.M. Samson, Adult cardiopulmonary bypass in Australian and New Zealand public hospitals: A survey of practice. *Anaesthesia and Intensive Care* (IF 1.34), 2020. 48(6): p. 465-472. DOI: 10.1177/0310057x20960730
- White, L.D., C. Thang, A. Hodsdon, T.M. Melhuish, F.A. Barron, M.G. Godsall, and R. Vlok, Comparison of Supraglottic Airway Devices with Endotracheal Intubation in Low-Risk Patients for Cesarean Delivery: Systematic Review and Meta-analysis. *Anesthesia & Analgesia* (IF 3.8), 2020. 131(4): p. 1092-1101. DOI: 10.1213/ane.0000000000004618
- White, L., B. Riley, U. Malla, N. Snels, A. Mitchell, C. Abi-Fares, W. Basson, and C. Anstey, Erector spinae block versus serratus anterior block in chest wall trauma, which is better?: A response and decision making guide. *The American Journal of Emergency Medicine* (IF 1.7), 2020. 38(10): p. 2221-2223. DOI: 10.1016/j.ajem.2020.08.004

Department of Anaesthesia and Perioperative Medicine cont.

2020 Full Publication List

ARTICLES:

1. Boyd, D. and L. White, Marginal gains from a lumbar erector spinae plane block for clinical benefit: A case study. *Trends in Anaesthesia and Critical Care* (IF 1.5), 2020. 35. DOI: 10.1016/j.tacc.2020.07.009
2. Pattullo, S.J. and D.M. Samson, Adult cardiopulmonary bypass in Australian and New Zealand public hospitals: A survey of practice. *Anaesthesia and Intensive Care* (IF 1.6), 2020. 48(6): p. 465-472. DOI: 10.1177/0310057x20960730
3. Snels, N., B. Riley, U. Malla, A. Mitchell, C. Abi-Fares, W. Basson, C. Anstey, and L. White, Optimising erector spinae block local anesthetic loading dose: a comparison of ropivacaine concentrations. *Journal of Emergency and Critical Care Medicine*, 2020. 4. DOI: 10.21037/jeccm-20-85
4. White, L., B. Riley, U. Malla, N. Snels, A. Mitchell, C. Abi-Fares, W. Basson, and C. Anstey, Erector spinae block versus serratus anterior block in chest wall trauma, which is better?: A response and decision making guide. *The American Journal of Emergency Medicine* (IF 1.7), 2020. 38(10): p. 2221-2223. DOI: 10.1016/j.ajem.2020.08.004
5. White, L., C. Thang, A. Hodsdon, T. Melhuish, and R. Vlok, Cricoid pressure during intubation: A systematic review and meta-analysis of randomised controlled trials. *Heart & Lung: The Journal of Critical Care* (IF 1.7), 2020. 49(2): p. 175-180. DOI: 10.1016/j.hrtlng.2019.10.001
6. White, L.D., A. Hodsdon, G.H. An, C. Thang, T.M. Melhuish, and R. Vlok, In reply - Induction opioids for caesarean section: A word on fentanyl. *International Journal of Obstetric Anesthesia* (IF 1.89), 2020. 42: p. 117-118. DOI: 10.1016/j.ijoa.2019.12.006
7. White, L.D., C. Thang, A. Hodsdon, T.M. Melhuish, F.A. Barron, M.G. Godsall, and R. Vlok, Comparison of Supraglottic Airway Devices with Endotracheal Intubation in Low-Risk Patients for Cesarean Delivery: Systematic Review and Meta-analysis. *Anesthesia & Analgesia* (IF 3.8), 2020. 131(4): p. 1092-1101. DOI: 10.1213/ane.0000000000004618
8. White, L.D., R.A. Vlok, C.Y.C. Thang, M.I. D'Souza, and T.M. Melhuish, Oxygenation during the apnoeic phase preceding intubation in adults in pre-hospital, emergency department, intensive care and operating theatre environments. *Cochrane Database of Systematic Reviews* (IF 7.9), (4). DOI: 10.1002/14651858.CD013558

CHAPTERS

1. White, L., Acute pain following chest injury: Chest wall trauma (rib fractures), in *Acute Pain Management: Scientific Evidence 2020*, ANZCA. p. 516-518.

Cardiology

Research Contact:

Prof Kim Greaves Kim.greaves@health.qld.gov.au

Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
7	11	-	\$546,386*	\$176,490.65**

Research Interests	Research Higher Degree Students
<p>GREAVES:</p> <ul style="list-style-type: none"> Epidemiology and predictors of outcomes in patients who have had COVID-19 in Queensland linking primary, secondary and registry data New: ATHENA COVID-19 Genomics and long COVID study: Assessment of the effects of genotype on outcomes in COVID-19, and study of 'long' COVID New: QuoVax project: COVID-19 vaccination roll out: assessment of the safety and efficacy of vaccination in Queensland New: Establishment of the Queensland COVID-19 biobank Dynamic consent platform development to establish two-way communication between patient and researchers and increase clinical trial activity nationally - underway Understanding the issues, building the governance and IT necessary to allow primary and secondary healthcare data sharing for population health research - underway Primary prevention of cardiovascular disease: Development of a national surveillance system to monitor cardiovascular disease risk scoring and treatment; novel ways to improve patient experience in those who have had acute coronary syndromes and improve patient medication compliance; increasing GP assessment rates of cardiovascular disease risk scoring New interventions and understanding the factors affecting myocardial and lower limb blood flow <p>STANTON:</p> <p>Ongoing recruitment for two multi-site investigator led clinical trials:</p> <ol style="list-style-type: none"> CAUGHT-CAD – investigating the use of CT calcium scoring for cardiovascular disease risk assessment SYNERGY II – investigating the use of pre- and post-biotics on myocardial function in chronic kidney disease <p>TUNG:</p> <ul style="list-style-type: none"> Electrophysiology: Determinants of effective magnet response in subcutaneous implantable cardiac defibrillators RENEWAL AF – investigation into underlying mechanisms of initiation and termination of atrial fibrillation Cardiac electrogram analysis to detect cathodal and anodal capture in left ventricular cardiac resynchronization pacing leads: Novel ways to improve testing and programming of implantable cardiac resynchronisation devices PROTECT ICD – Programmed Ventricular Stimulation to Risk Stratify for Early Cardioverter-defibrillator Implantation to Prevent Tachyarrhythmia following Acute Myocardial Infarction; ongoing recruitment Global longitudinal strain in left bundle pacing; research idea still in formative stages 	<ul style="list-style-type: none"> Grace Young Kim Greaves, Master in Applied

Cardiology cont.

2020 Full Publication List

ARTICLES:

1. Appadurai, V., N. D'Elia, D. Chang, D. Holland, and T. Stanton, 394 prognostic value of global longitudinal strain for individuals with primary severe mitral regurgitation undergoing mitral valve surgery: A systematic review and meta-analysis. *Heart Lung and Circulation* (IF 2.19), 2020. 29: p. S215 DOI: 10.1016/j.hlc.2020.09.401
2. Greaves, K., A. Smith, J. Agostino, K. Kunarajah, T. Stanton, and R. Korda, Cross-sectional survey describing general practitioners' absolute cardiovascular disease risk assessment practices and their relationship to knowledge, attitudes and beliefs about cardiovascular disease risk in Queensland, Australia. *BMJ Open* (IF 2.49), 2020. 10(8): p. e033859 DOI: 10.1136/bmjopen-2019-033859
3. Hamilton-Craig, C., A. McGavigan, C. Semsarian, A. Martin, J. Atherton, T. Stanton, A. La Gerche, A.J. Taylor, and H. Haqqani, The Cardiac Society of Australia and New Zealand Position Statement on the Diagnosis and Management of Arrhythmogenic Right Ventricular Cardiomyopathy (2019 Update). *Heart, Lung and Circulation* (IF 2.19), 2020. 29(1): p. 40-48 DOI: 10.1016/j.hlc.2019.02.194
4. Lam, J.H., J.X. Quah, T. Davies, C.J. Boos, K. Nel, C.M. Anstey, T. Stanton, and K. Greaves, Relationship between coronary microvascular dysfunction and left ventricular diastolic function in patients with chest pain and unobstructed coronary arteries. *Echocardiography* (IF 1.39), 2020. 37(8): p. 1199-1204 DOI: 10.1111/echo.14794
5. Meneses, A.L., M.C.Y. Nam, T.G. Bailey, C. Anstey, J. Golledge, M.A. Keske, K. Greaves, and C.D. Askew, Skeletal muscle microvascular perfusion responses to cuff occlusion and submaximal exercise assessed by contrast-enhanced ultrasound: The effect of age. *Physiological Reports* (IF: 2.26), 2020. 8(19) DOI: 10.14814/phy2.14580
6. Nam, M.C.Y., A.L. Meneses, C.D. Byrne, T. Richman, J.X. Quah, T.G. Bailey, I. Hickman, C. Anstey, C.D. Askew, R. Senior, T. Stanton, A.W. Russell, and K. Greaves, An Experimental Series Investigating the Effects of Hyperinsulinemic Euglycemia on Myocardial Blood Flow Reserve in Healthy Individuals and on Myocardial Perfusion Defect Size following ST-Segment Elevation Myocardial Infarction. *Journal of the American Society of Echocardiography* (IF 5.50), 2020. 33(7) DOI: 10.1016/j.echo.2020.01.010
7. Quah, J., D. Dharmapranjani, A. Lahiri, M. Schopp, L. Mitchell, J.B. Selvanayagam, R. Perry, F. Chahadi, M. Tung, W. Ahmad, N. Stoyanov, M.X. Joseph, C. Singleton, A.D. McGavigan, and A.N. Ganesan, Prospective cross-sectional study using Poisson renewal theory to study phase singularity formation and destruction rates in atrial fibrillation (RENEWAL-AF): Study design. *Journal of Arrhythmia* (IF: 1.11), 2020. 36(4): p. 660-667 DOI: 10.1002/joa3.12363
8. Tung, M., F. Van Petegem, S. Lauson, A. Collier, K. Hodgkinson, B. Fernandez, S. Connors, R. Leather, S. Sanatani, and L. Arbour, Cardiac arrest in a mother and daughter and the identification of a novel RYR2 variant, predisposing to low penetrant catecholaminergic polymorphic ventricular tachycardia in a four-generation Canadian family. *Molecular Genetics & Genomic Medicine* (IF 1.99), 2020. 8(4): p. e1151. DOI: 10.1002/mgg3.1151
9. Wijesundera, D.N., et. al. (100+ authors including SCHHS researchers: M.G. Godsall, N. Beauchamp, S. Allen, A. Kennedy, E. Wright, J. Malherbe, K. Greaves), Integration of the Duke Activity Status Index into preoperative risk evaluation: a multicentre prospective cohort study. *British Journal of Anaesthesia* (IF 6.19), 2020. 124(3): p. 261-270 DOI: 10.1016/j.bja.2019.11.025
10. Young, G., K. Greaves, D. Chang, J. Hwan Lam, D. Krastins, Y. Kriel, F. Russell, T. Stanton, and C. Askew, 724 Contrast-Enhanced Ultrasound Measures of Skeletal Muscle Post-Occlusive Hyperaemia: What is the Effect of Occlusion Duration? *Heart Lung and Circulation* (IF 2.19), 2020. 29: p. S362 DOI: 10.1016/j.hlc.2020.09.731
11. Young, G.M., D. Krastins, D. Chang, J. Lam, J. Quah, T. Stanton, F. Russell, K. Greaves, Y. Kriel, and C.D. Askew, Influence of cuff-occlusion duration on contrast-enhanced ultrasound assessments of calf muscle microvascular blood flow responsiveness in older adults. *Experimental Physiology* (IF: 2.43), 2020 DOI: 10.1113/epo89065

Clinical Research

Research Contact:

Helen Rodgers Helen.Rodgers2@health.qld.gov.au

What are Clinical Trials?

Clinical trials are research studies in medicine that aim to improve healthcare delivery and bring advances in new treatments for particular diseases. The Sunshine Coast Hospital and Health Service collaborates with industry sponsor companies to bring new cutting-edge trials to the patients in our community. We network with companies and other research groups to ensure we are bringing focussed trials to the health service that meet the needs of the Sunshine Coast community.

How has COVID-19 affected Clinical Trials?

During 2020, Clinical Trials experienced widespread issues worldwide due to a reduction in patient face to face visits, delays in transporting study drugs, conservation of clinical equipment, and cessation of onsite monitoring visits. It was a year of accepting change and finding strategies to keep the momentum of trials going without putting anyone at risk. A few trials had some minor interruptions, but most were able to tailor patient visits using telehealth, phone follow-ups, and home study drug delivery. Visits from external monitors ceased due to travel concerns which called for new methods of providing data. During the early stages of COVID-19, trial recruitment stopped for many trials until both study sponsors and sites develop new approaches to conducting trials. Some of these strategies will continue into the future, resulting in a permanent change in how we conduct clinical trials.

The upside was that many Clinical Research Associates were based in Melbourne and therefore in lockdown, which provided them with time to bring us new trial offers. Whilst one aspect of trials was quiet, another was ramped up. There was a prioritisation of COVID-19 trials and the Sunshine Coast University Hospital was selected as a site for a large multicentre COVID-19 trial. This trial is continuing to evolve according to new information and current changes in the COVID-19 strains.

The unprecedented impact of COVID-19 also changed the internal processes of the Clinical Research Team. Some of the challenges included moving to virtual engagement with universities and sponsor companies, online communication with peer groups and supporting departments, and a change from paper-based contracts to electronic versions of regulatory documents. The clinical trial teams worked together to quickly adapt their trials, whilst ensuring safety and risk management was given utmost importance.

Clinical Trial students

Four students completed placements in the Clinical Research Unit during 2020, three from USC and one from UQ. These students brought innovative ideas and new approaches which we were able to adopt into practice.

Commercially sponsored clinical activity

During 2020, the Dermatology Department embarked on two new commercially sponsored trials, working with the Clinical Research Unit for the first time. There are more to come in 2021 and the team are pleased to be engaged with another SCHHS Department.

Trial opportunities were brought to SCHHS by our major commercial Contract Research Organisations and collaborative groups including:

Bristol Myers Squibb

IQVIA

National Health and Medical Research Council

Parexel

Roche

TRIO (Translational Research in Oncology)

Breast Cancer Trials

Janssen

NOVOTECH

PPD

Syneos Health



Clinical Research

Collaborative Clinical Trial activity

SCHHS is involved in collaborative trials in association with institutions, organisations and universities. Collaborative clinical trials have many benefits such as shared expertise, efficient resource allocation, and greater patient access.

Some of our major clinical trial clinical partners include:

- Alfred Health
- Australasian Gastro-Intestinal Trials Group
- Australasian Myeloma Research Consortium
- Australian and New Zealand Urogenital and Prostate Cancer Trials Group
- Australian Leukaemia & Lymphoma Group
- Australian Orthopaedic Association
- Breast Cancer Trials
- Flinders University
- James Cook University
- Mater Research
- Monash University
- The Florey Institute
- The George Institute
- The University of Melbourne
- The University of Queensland
- Trans-Tasman Radiation Oncology Group
- University of Sydney
- Western Sydney Local Health District

Dermatology

Research Contact:

Assoc Prof Helmut Schaidler Helmut.Schaidler@health.qld.gov.au

Dr Leith Banney Leith.Banney@health.qld.gov.au

Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
6	3	3	\$120k	\$59,712**

Research Interests	External Research Grants	**Internal Research
<ul style="list-style-type: none"> Medical dermatology Skin cancer Melanoma prevention Teledermatology 	<p>Cancer Council Queensland (\$120,000): O-linked-N-acetylglucosamine transferase and ten-eleven translocation 1 facilitate therapy induced cellular reprogramming leading to acquired drug resistance in cancer; Associate Professor Helmut Schaidler (Research based at The University of Queensland Diamantina Institute)</p>	<p>Wishlist/SERTF Research Grant (\$9,838): Pilot comparison of a combination of topical 5 per cent flurouracil (5FU) and calcipotriol with 5FU in the treatment of early skin cancer; Dr Leith Banney</p> <p>Wishlist/SERTF Research Grant (\$49,874): Determine genetic and epigenetic markers of proliferating naevi in high risk melanoma patients; Associate Professor Helmut Schaidler</p>

Research Publications in 2020

ARTICLES:

- Ravindran Menon, D., H. Hammerlindl, J. Torrano, H. Schaidler, and M. Fujita, Epigenetics and metabolism at the crossroads of stress-induced plasticity, stemness and therapeutic resistance in cancer. *Theranostics* (IF 8.579), 2020. 10(14): p. 6261-6277. DOI: 10.7150/thno.42523
- Rayner, J.E., D.L. Duffy, D.J. Smit, K. Jagirdar, K.J. Lee, B. De'Ambrosis, B.M. Smithers, E.K. McMeniman, A.M. McInerney-Leo, H. Schaidler, M.S. Stark, H.P. Soyer, and R.A. Sturm, Germline and somatic albinism variants in amelanotic/hypomelanotic melanoma: Increased carriage of TYR and OCA2 variants. *PLoS One* (IF 2.74), 2020. 15(9): p. e0238529. DOI: 10.1371/journal.pone.0238529
- Tedman, A., U. Malla, L. Vasanthakumar, K. Buzacott, and L. Banney, Stevens-Johnson syndrome due to topical imiquimod 5 per cent. *Australian Journal of General Practice* (IF 0.852), 2020. 49(10): p. 662-664. DOI: 10.31128/ajgp-11-19-5145

QUALITY IMPROVEMENT PROJECT:

- Cao, M. Streamlining the hidradenitis suppurativa (HS) deroofting procedure. Patient handout.

Emergency Medicine

Research Contact:

Dr Ogilvie Thom & Kym Roberts

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Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
15	6	-	\$162,055*	\$36,000

Research Interests	Research Higher Degree Students	*External Research Grants
<ul style="list-style-type: none"> Drowning Geriatrics Paediatrics Mental health 	<ul style="list-style-type: none"> Ogilvie Thom Kym Roberts Elizabeth Marsden Andrea Taylor Melanie Brown 	<p>Emergency Medicine Foundation Queensland Research Program Round 34 (\$70,587): PaNURAMA Inter-facility Transfer Tool Validation: A validation study of the Paediatric Non-Urgent, Risk Assessment, Management and nurse escort Assessment (PaNURAMA) Tool for safe children's inter-facility Transfer; Michelle Davidson</p> <p>Emergency Medicine Foundation Queensland Research Program Round 34 (\$91,468): Emergency Department treatment of the drowning victim; Thom Ogilvie</p>

Internal Research Grants	Research Publications in 2020
<p>Wishlist/SERTF Research Grant (\$36,000): Emergency Department treatment of the drowning victim; Dr Ogilvie Thom (Principal Investigator)</p>	<ol style="list-style-type: none"> Brown, S.G.A., E.L. Ball, K. Perrin, S.E. Asha, I. Braithwaite, D. Egerton-Warburton, P.G. Jones, G. Keijzers, F.B. Kinnear, B.C.H. Kwan, K.V. Lam, Y.C.G. Lee, M. Nowitz, C.A. Read, G. Simpson, J.A. Smith, Q.A. Summers, M. Weatherall, and R. Beasley, Conservative versus Interventional Treatment for Spontaneous Pneumothorax. <i>The New England Journal of Medicine</i> (IF 74.69), 2020. 382(5): p. 405-415. DOI: 10.1056/NEJMoa1910775 [PSP Investigator – Ogilvie Thom] Jones, P., A.M. Kelly, G. Keijzers, S. Klim, A. Holdgate, C.A. Graham, S. Craig, W.S. Kuan, and S. Laribi, Chronic disease management in emergency department patients presenting with dyspnoea. <i>Emergency Medicine Australasia</i> (IF 2.19), 2020. 32(6): p. 1067-1070. DOI: 10.1111/1742-6723.13625 [AANZDEM Study Group collaborator – Ogilvie Thom] Keijzers, G., S.P. Macdonald, A.A. Udy, G. Arendts, M. Bailey, R. Bellomo, G.E. Blecher, J. Burcham, A.R. Coggins, A. Delaney, D.M. Fatovich, J.F. Fraser, A. Harley, P. Jones, F.B. Kinnear, K. May, S. Peake, D.M. Taylor, and P. Williams, The Australasian Resuscitation In Sepsis Evaluation: Fluids or vasopressors in emergency department sepsis (ARISE FLUIDS), a multi-centre observational study describing current practice in Australia and New Zealand. <i>Emergency Medicine Australasia</i> (IF 2.19), 2020. 32(4): p. 586-598. DOI: 10.1111/1742-6723.13469 [ARISE FLUIDS Observational Study Group collaborators – Ogilvie Thom, Kym Roberts] Marsden, E., A. Taylor, M. Wallis, A. Craswell, M. Broadbent, A. Barnett, and J. Crilly, Effect of the Geriatric Emergency Department Intervention on outcomes of care for residents of aged care facilities: A non-randomised trial. <i>Emergency Medicine Australasia</i> (IF 2.19), 2020. 32(3): p. 422-429. DOI: 10.1111/1742-6723.13415 Marsden, E.J., A. Taylor, M. Wallis, A. Craswell, M. Broadbent, C. Johnston-Devin, and J. Crilly, A structure and process evaluation of the Geriatric Emergency Department Intervention model. <i>Australasian Emergency Care</i> (IF: 1.28), 2020. 24(1): p. 28-33. DOI: 10.1016/j.auec.2020.05.006 Roberts, K., O. Thom, R. Eley, C.J. Cabilan, and K. Vallmuur, Long term impact of ladder-related injuries as measured by the AQoL instrument. <i>PLoS One</i> (IF 6.22), 2020. 15(6): p. e0235092. DOI: 10.1371/journal.pone.0235092

Gastroenterology & Hepatology

Research Contact:

Gastroenterology - Dr Lauren White Lauren.White2@health.qld.gov.au

Hepatology - Prof James O'Beirne james.obeirne@health.qld.gov.au

Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
7	13	3	\$2.596 million*	-

Research Interests	Research Higher Degree Students	*External Research Grants
<ul style="list-style-type: none"> Community risk stratification of liver disease Viral hepatitis Hepatocellular carcinoma Inflammatory bowel disease Colon cancer 	Dr Lucy Gracen (co-supervised by Prof. Elizabeth Powell – UQ)	<p>National Health and Medical Research Council Grant 2019-2022 (\$996,000): Protocol for a randomised trial testing a community fibrosis assessment service for patients with suspected non-alcoholic fatty liver disease: LOCAL assessment and triage evaluation of non-alcoholic fatty liver disease (LOCATE-NAFLD); James O'Beirne</p> <p>National Health and Medical Research Future Fund Grant (\$1.6 million): Targeting the microbiome in primary sclerosing cholangitis; James O'Beirne</p>

Future Research Plans/Interests	Research Publications in 2020
<ul style="list-style-type: none"> Clinical trial of antibiotics in primary sclerosing cholangitis Immunotherapy as an adjunct to arterial embolization in hepatocellular carcinoma 	<ol style="list-style-type: none"> Brain, D., J. Mitchell, and J. O'Beirne, Cost-effectiveness analysis of an outreach model of Hepatitis C Virus (HCV) assessment to facilitate HCV treatment in primary care. PloS one (IF 6.22), 2020. 15(6): p. e0234577 DOI: 10.1371/journal.pone.0234577 Brain, D., J. O'Beirne, I.J. Hickman, E.E. Powell, P.C. Valery, S. Kularatna, R. Tulleners, A. Farrington, L. Horsfall, and A. Barnett, Protocol for a randomised trial testing a community fibrosis assessment service for patients with suspected non-alcoholic fatty liver disease: LOCAL assessment and triage evaluation of non-alcoholic fatty liver disease (LOCATE-NAFLD). BMC Health Services Research (IF 5.08), 2020. 20(1): p. 335. DOI: 10.1186/s12913-020-05233-2 Burrage, L., H. Zimmerman, S. Higgins, K. Param, C. Orme, J. Mitchell, and J. O'Beirne, Performance of simple serum-based tests to exclude cirrhosis prior to hepatitis C treatment in non-hospital settings in Australia. Internal Medicine Journal (IF 2.36), 2020 DOI: 10.1111/imj.14767 Papaluca, T., S.K. Roberts, S.I. Strasser, K.A. Stuart, G. Farrell, G. MacQuillan, G.J. Dore, A.J. Wade, J. George, S. Hazeldine, J. O'Beirne, A. Wigg, L. Fisher, B. McGarity, R. Sawhney, M. Sinclair, J. Thomas, I. Valiozis, M. Weltman, M. Wilson, A. Woodward, G. Ahlenstiel, M. Haque, M. Levy, E. Prewett, W. Sievert, S. Sood, E. Tse, Z. Valaydon, S. Bowden, M. Douglas, K. New, J. O'Keefe, M. Hellard, J. Doyle, M. Stooove, and A.J. Thompson, Efficacy and safety of sofosbuvir/velpatasvir/voxilaprevir for HCV NS5A-inhibitor experienced patients with difficult to cure characteristics. Clinical Infectious Diseases (IF 9.73), 2020 [Published online 17 Oct] DOI: 10.1093/cid/ciaa1318 Roberts, S.K., S.I. Strasser, A.J. Nicoll, W. Kemp, A. Majeed, J. Mitchell, K. Stuart, P. Gow, S. Sood, G. MacQuillan, J. George, J. Mitchell, and G.W. McCaughan, Efficacy and safety profile of calcineurin inhibitor salvage therapy in autoimmune hepatitis. Scandinavian Journal of Gastroenterology (IF 4.0), 2020 DOI: 10.1080/00365521.2020.1821764 White, L.S., C. Campbell, A. Lee, A. Lord, and R.S. Graham, Intestinal ultrasound as first-line investigation in low risk gastrointestinal symptoms: A new model of care. Internal Medicine Journal (IF 2.36), 2020 DOI: 10.1111/imj.15133

2020 Full Publication List

1. Brain, D., J. Mitchell, and J. O'Beirne, Cost-effectiveness analysis of an outreach model of Hepatitis C Virus (HCV) assessment to facilitate HCV treatment in primary care. *PloS one* (IF 6.22), 2020. 15(6): p. e0234577 DOI: 10.1371/journal.pone.0234577
2. Brain, D., J. O'Beirne, I.J. Hickman, E.E. Powell, P.C. Valery, S. Kularatna, R. Tulleners, A. Farrington, L. Horsfall, and A. Barnett, Protocol for a randomised trial testing a community fibrosis assessment service for patients with suspected non-alcoholic fatty liver disease: LOCAL assessment and triage evaluation of non-alcoholic fatty liver disease (LOCATE-NAFLD). *BMC Health Services Research* (IF 5.08), 2020. 20(1): p. 335. DOI: 10.1186/s12913-020-05233-2
3. Burrage, L., H. Zimmerman, S. Higgins, K. Param, C. Orme, J. Mitchell, and J. O'Beirne, Performance of simple serum-based tests to exclude cirrhosis prior to hepatitis C treatment in non-hospital settings in Australia. *Internal Medicine Journal* (IF 2.36), 2020 DOI: 10.1111/imj.14767
4. Gupta, R. and J. O'Beirne, On the path to detecting significant liver disease. *Frontline Gastroenterology* (IF 3.4), 2020. 11(2): p. 84-85. DOI: 10.1136/flgastro-2019-101282
5. Khokhar, M.A. and J. O'Beirne, Transjugular Intrahepatic Portosystemic Shunts for Hepatorenal Syndrome: TIPping the scales in whose favor? *Digestive Diseases and Sciences* (IF 4.89), 2020 DOI: 10.1007/s10620-020-06351-x
6. O'Beirne, J., Liver Transplantation for Alcoholic Liver Disease: Absence of Evidence for the Relevance of Abstinence. *Digestive Diseases and Sciences* (IF 4.89), 2020. 65(6): p. 1599. DOI: 10.1007/s10620-020-06235-0
7. O'Beirne, J., Readmission following hospitalization for alcoholic hepatitis: Costly or cost-effective? *Digestive Diseases and Sciences* (IF 4.89), 2020. 65(4): p. 920-921 DOI: 10.1007/s10620-019-05854-6
8. Papaluca, T., S.K. Roberts, S.I. Strasser, K.A. Stuart, G. Farrell, G. MacQuillan, G.J. Dore, A.J. Wade, J. George, S. Hazeldine, J. O'Beirne, A. Wigg, L. Fisher, B. McGarity, R. Sawhney, M. Sinclair, J. Thomas, I. Valiozis, M. Weltman, M. Wilson, A. Woodward, G. Ahlenstiel, M. Haque, M. Levy, E. Prewett, W. Sievert, S. Sood, E. Tse, Z. Valaydon, S. Bowden, M. Douglas, K. New, J. O'Keefe, M. Hellard, J. Doyle, M. Stooze, and A.J. Thompson, Efficacy and safety of sofosbuvir/velpatasvir/voxilaprevir for HCV NS5A-inhibitor experienced patients with difficult to cure characteristics. *Clinical Infectious Diseases* (IF 9.73), 2020 [Published online 17 Oct] DOI: 10.1093/cid/ciaa1318
9. Roberts, S.K., S.I. Strasser, A.J. Nicoll, W. Kemp, A. Majeed, J. Mitchell, K. Stuart, P. Gow, S. Sood, G. MacQuillan, J. George, J. Mitchell, and G.W. McCaughan, Efficacy and safety profile of calcineurin inhibitor salvage therapy in autoimmune hepatitis. *Scandinavian Journal of Gastroenterology* (IF 4.0), 2020 DOI: 10.1080/00365521.2020.1821764
10. Valery, P.C., S. McPhail, K.A. Stuart, G. Hartel, P.J. Clark, J. O'Beirne, R. Skoien, T. Rahman, C. Mos and E.E. Powell, Changing prevalence of aetiological factors and comorbidities among Australians hospitalised for cirrhosis. *Internal Medicine Journal* (IF 2.36), 2020. DOI: 10.1111/imj.14809
11. White, L.S., C. Campbell, A. Lee, A. Lord, and R.S. Graham, Intestinal ultrasound as first-line investigation in low risk gastrointestinal symptoms: A new model of care. *Internal Medicine Journal* (IF 2.36), 2020 DOI: 10.1111/imj.15133
12. Wickremeratne, T., J.D. Mitchell, and J. O'Beirne, Letter: pre-emptive TIPSS for variceal bleeding-patient selection is key. *Alimentary Pharmacology and Therapeutics* (IF 7.19), 2020. 52(4): p. 755 DOI: 10.1111/apt.15933

CONFERENCE PRESENTATIONS AND ABSTRACTS:

1. Chen, C.-Y., E. Davis, L. White, and D. Patrick, Tofacitinib-induced remission of infliximab-refractory acute severe ulcerative colitis: A case report. *IBD Clinical, Journal of Gastroenterology and Hepatology, Australia* (IF 2.69), 2020. 35: p. 108-157. DOI: 10.1111/jgh.15271
2. Eqbal, A., T. Wickremeratne, S. Turner, S. Higgins, A. Sloss, J. Mitchell, and J. O'Beirne. Unsedated ultrathin endoscopy for variceal surveillance in the outpatient setting – evidence into practice. *Endoscopy* (IF 4.09), Vol. 52. 2020. DOI: 10.1055/s-0040-1704769
3. Gane, E., Y.S. Lim, P. Tangkijvanich, J. O'Beirne, T.H. Lim, A. Bakardjiev, X. Ding, L. Connolly, S. Huang, J. Kim, P. Pang, and R.M.F. Yuen, Preliminary safety and antiviral activity of VIR-2218, an X-targeting HBV RNAi therapeutic, in chronic hepatitis B patients. *Journal of Hepatology* (IF 14.67), 2020. 73(S1): p. S50-S51 DOI: 10.1016/j.jhep.2020.03.016
4. Khan, S.A., D. Rowbotham, A. Chong, A. Majumdar, C. White, A. Huelsen, J. Brooker, J. O'Beirne, C. Schauer, M. Efthymiou, R. Vaughan, and S. Chandran, SX-ELLA Danis stent for the management of refractory variceal bleeding in chronic liver disease: A multi-center Australian and New Zealand experience. *Gastrointestinal Endoscopy* (IF 6.98), 2020. 91(6): p. AB271-AB272 DOI: 10.1016/j.gie.2020.03.1873
5. White, L., E. Davis, S. Buckton, Z. Samidurai, A. Sloss, and D. Patrick, Conversion to a phone clinic for the management of inflammatory bowel disease in the COVID-19 era, *Journal of Gastroenterology and Hepatology, Australia* (IF 2.69), 2020. 35: p. 122-123. Available at: <https://pesquisa.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/en/covidwho-1109570>

General Surgery

Research Contact:

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Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
8	2	Nil	\$91,000	\$85,000**

Research Interests	Research Higher Degree Students	*External Research Grants
<ul style="list-style-type: none"> SUNRRISE Trial: Trainee-led, international multicentre randomised controlled trial of single-use negative pressure dressings for the prevention of surgical site infection after emergency laparotomy Optimisation of surgical waiting list management The effect of the COVID-19 pandemic on acute surgical admissions Surgical antibiotic prescribing in hospitals RQCCSS: Regional Queensland Colorectal Cancer Survival Study BCCA: Bi-National Colorectal Cancer Audit AusTQip ATR: Australian Trauma Quality Improvement Program Australian Trauma Registry 	<ul style="list-style-type: none"> Suzanne Ryan Emily Olive 	Medical Research Future Fund (\$91,000): Single Use Negative pPressure dressing for Reduction in Surgical site infection following Emergency laparotomy (SUNRRISE) Trial; Dr Bree Stephensen

*Internal Research Grants	Future Research Plans/Interests
<ul style="list-style-type: none"> Wishlist/SERTF Research Grant (\$85,000): Optimisation of surgical waiting list management study (OpLIST); Dr Ratna Aseervatham and David (Sandy) Grieve 	<ul style="list-style-type: none"> Surgical waiting list management Surgical antibiotic prophylaxis Breast cancer research Colorectal cancer research Wound management Impact of COVID-19 ACS NSQIP: American College of Surgeons National Safety and Quality Improvement Program

Research Publications in 2020

ARTICLES:

- Clark, D.A., B. Stephensen, A. Edmundson, D. Steffens, and M. Solomon, Geographical variation in the use of diverting loop ileostomy in Australia and New Zealand Colorectal Surgeons. *Annals of Coloproctology* (IF 2.26), 2020. DOI: <https://doi.org/10.3393/ac.2020.09.14.1>
- Stephensen, B.D., F. Reid, S. Shaikh, R. Carroll, S.R. Smith, and P. Pockney, C-reactive protein trajectory to predict colorectal anastomotic leak: PREDICT Study. *British Journal of Surgery* (IF 9.13), 2020. 107(13): p. 1832-1837. DOI: <https://doi.org/10.1002/bjs.11812>

Infectious Diseases Service

Research Contact:

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Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
9	14	Nil	\$1,251,473*	\$10,000**

Research Interests	Research Higher Degree Students
<p>The Infectious Diseases Service has formed the Infection Research Network: a collaborative group of cross-disciplinary researchers focused on the prevention and optimal management of infections. With the critical challenges of a global pandemic, risking antimicrobial resistance, and increasing infections related to other factors such as ageing, immunosuppression and diabetes, innovation in the areas of infection prevention and management are critical to address these increasing healthcare needs both now and into the future. The group has specific interests in the following areas:</p> <ul style="list-style-type: none"> • Antimicrobial resistance • Social influences on antimicrobial use • Implementation science • Cultural change in healthcare institutions • Diabetic foot infection • HIV (human immunodeficiency virus) • Infection control and COVID-19 	<p>Junel Padigos: Nursing experiences of antimicrobial prescribing and stewardship in the intensive care unit</p>

*External Research Grants	**Internal Research Grants
<p>Advance Queensland Senior Research Fellowship 2017-2020 (\$600,000 – including \$300,000 administering organising contribution – and additional \$238,000 in-kind contributions from partner organisations. Total grant value \$833,000): Novel antimicrobial stewardship innovations to preserve antibiotics for the future; Jennifer Broom</p> <p>ARC Linkage Grant 2019-2021 (\$418,473 – including partners contributions): Navigating an uncertain antimicrobial future: A sociological study; Jennifer Broom</p>	<p>Wishlist-SERTF Research Grant (\$7,220): Where resistance testing meets clinical practice: The interface between results and meaning; Denise Kee</p> <p>Wishlist-SERTF Research Grant (\$10,000): Pseudomonas Aeruginosa Bloodstream Infections, clinical outcomes, resistance mechanisms and virulence; Walczak Andrew</p>

Research Publications in 2020
<ol style="list-style-type: none"> 1. Broom, A., K. Kenny, B. Prainsack, and J. Broom, Antimicrobial resistance as a problem of values? Views from three continents. Critical Public Health (IF: 2.41), Published online 11 Feb 2020. DOI: 10.1080/09581596.2020.1725444 2. Broom, J., A. Broom, K. Kenny, and M. Chittem, Antimicrobial overuse in India: A symptom of broader societal issues including resource limitations and financial pressures. Global Public Health (IF: 2.0), 2020. 16(7): p. 1079-1087 2020 DOI: 10.1080/17441692.2020.1839930 3. Kirby, E., A. Broom, K. Overton, K. Kenny, J.J. Post, and J. Broom, Reconsidering the nursing role in antimicrobial stewardship: A multisite qualitative interview study. BMJ Open (IF: 2.49), 2020. 10(10) DOI: 10.1136/bmjopen-2020-042321 4. Stewart, A., D. Sarovich, E. Price, D. Burnard, P. Harris, K. Choong, and S. Subedi, Molecular epidemiology and hospital spread of ceftriaxone non-susceptible enterobacterales in the Sunshine Coast Region, Australia. Internal Medicine Journal (IF: 1.16), 2020. 50: p. 6-7 DOI: 10.1111/imj.4_14846 5. Roberts, L.W., E. Catchpoole, A.V. Jennison, H. Bergh, A. Hume, C. Heney, N. George, D.L. Paterson, M.A. Schembri, S.A. Beatson, P.N.A. Harris, Genomic analysis of carbapenemase-producing Enterobacteriaceae in Queensland reveals widespread transmission of blaIMP-4 on an IncH2 plasmid. Microbial Genomics (IF: 5.53), 2020. 6(1): e000321 DOI: 10.1099/mgen.0.000321

2020 Full Publication List

ARTICLES:

1. Broom, A., K. Kenny, B. Prainsack, and J. Broom, Antimicrobial resistance as a problem of values? Views from three continents. *Critical Public Health* (IF: 2.41), Published online 11 Feb 2020. DOI: 10.1080/09581596.2020.1725444
2. Broom, J., A. Broom, K. Kenny, and M. Chittem, Antimicrobial overuse in India: A symptom of broader societal issues including resource limitations and financial pressures. *Global Public Health* (IF: 2.0), 2020. 16(7): p. 1079-1087 2020 DOI: 10.1080/17441692.2020.1839930
3. Grigg, S., D. Hogan, F.S. Hosein, D. Johns, A. Jennison, and S. Subedi, A case of toxigenic, pharyngeal diphtheria in Australia. *Medical Journal of Australia* (IF: 1.81), 2020. 213(2): p. 64-64 DOI: 10.5694/mja2.50566
4. Harding, H., A. Broom, and J. Broom, Aerosol-generating procedures and infective risk to healthcare workers from SARS-CoV-2: the limits of the evidence. *Journal of Hospital Infection* (IF: 2.74), 2020. 105(4): p. 717-725 DOI: 10.1016/j.jhin.2020.05.037
5. Kirby, E., A. Broom, K. Overton, K. Kenny, J.J. Post, and J. Broom, Reconsidering the nursing role in antimicrobial stewardship: A multisite qualitative interview study. *BMJ Open* (IF: 2.49), 2020. 10(10) DOI: 10.1136/bmjopen-2020-042321
6. Padigos, J., S. Reid, E. Kirby, and J. Broom, Knowledge, perceptions, and experiences of nurses in antimicrobial optimization or stewardship in the intensive care unit: a systematic review. *The Journal of Hospital Infection* (IF: 3.35), 2020 DOI: 10.1016/j.jhin.2020.12.003
7. Padigos, J., S. Ritchie, and A.G. Lim, Enhancing nurses' future role in antimicrobial stewardship. *Collegian* (IF: 1.83), 2020. 27(5): p. 487-498 DOI: 10.1016/j.colegn.2020.01.005
8. Parsonson, F., A. Legg, M. Halford, K. McCarthy, Contemporaneous management of ampicillin infusions in the outpatient setting through the use of therapeutic drug monitoring. *International Journal of Antimicrobial Agents* (IF: 5.28), 2020. 55(6): p. 105975 DOI: 10.1016/j.ijantimicag.2020.105975
9. Pyke, A.T., K. Choong, F. Moore, S. Schlebusch, C. Taylor, G. Hewitson, J. McMahon, N. Nair, P. Moore, M. Finger, P. Burtonclay, and S. Wheatley, A Case of Japanese Encephalitis with a Fatal Outcome in an Australian Who Traveled from Bali in 2019. *Tropical Medicine and Infectious Disease* (IF: 3.11), 2020. 5(3) DOI: 10.3390/tropicalmed5030133
10. Roberts, L.W., E. Catchpoole, A.V. Jennison, H. Bergh, A. Hume, C. Heney, N. George, D.L. Paterson, M.A. Schembri, S.A. Beatson, P.N.A. Harris, Genomic analysis of carbapenemase-producing Enterobacteriaceae in Queensland reveals widespread transmission of blaIMP-4 on an IncHI2 plasmid. *Microbial Genomics* (IF: 5.53), 2020. 6(1): e000321 DOI: 10.1099/mgen.0.000321
11. Roberts, L.W., P.N.A. Harris, B.M. Forde, N.L. Ben Zakour, E. Catchpoole, M. Stanton-Cook, M.D. Phan, H.E. Sidjabat, H. Bergh, C. Heney, J.A. Gawthorne, J. Lipman, A. Allworth, K.G. Chan, T.M. Chong, W.F. Yin, M.A. Schembri, D.L. Paterson, and S.A. Beatson, Integrating multiple genomic technologies to investigate an outbreak of carbapenemase-producing *Enterobacter hormaechei*. *Nature Communications* (IF: 14.91), 2020. 11(1): p. 466 DOI: 10.1038/s41467-019-14139-5
12. Stewart, A.G., D. Burnard, D. Sowden, and D. McMillan, Whole genome sequencing for antimicrobial resistance mechanisms, virulence factors and clonality in invasive *Streptococcus agalactiae* blood culture isolates recovered in Australia. *Pathology* (IF: 3.74), 2020. 52(6): p. 694-699 DOI: 10.1016/j.pathol.2020.06.006
13. Stewart, A., D. Sarovich, E. Price, D. Burnard, P. Harris, K. Choong, and S. Subedi, Molecular epidemiology and hospital spread of ceftriaxone non-susceptible enterobacterales in the Sunshine Coast Region, Australia. *Internal Medicine Journal* (IF: 1.16), 2020. 50: p. 6-7 DOI: 10.1111/imj.4_14846
14. Walczak, A., K. Wilks, R. Shakhovskoy, T. Baird, S. Schlebusch, C. Taylor, D. Reid, and K. Choong, COVID-19 in a complex obstetric patient with cystic fibrosis. *Infection, Disease and Health* (IF: 2.27), 2020. 25(4): p. 239-241 DOI: 10.1016/j.idh.2020.07.002
15. Widders, A., A. Broom, and J. Broom, SARS-CoV-2: The viral shedding vs infectivity dilemma. *Infection, Disease & Health* (IF: 2.27), 2020. 25(3): p. 210-215 DOI: 10.1016/j.idh.2020.05.002

CONFERENCE PRESENTATIONS

1. Broom, J., The social world of antimicrobials, Internal Medicine society of Australia and New Zealand Conference Christchurch, Invited Speaker, February 2020.

Intensive Care Services & Paediatric Critical Care

Research Contact:

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Director of Paediatric Critical Care Research A/Prof Paula Lister Paula.Lister@health.qld.gov.au

Research Team sciccr@health.qld.gov.au

Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
21	23	2	\$45,956*	\$103,410**

Research Interests	Research Higher Degree Students
<ul style="list-style-type: none"> Community acquired pneumonia Pandemic research Out of hospital cardiac arrests Antibiotic duration for blood stream infections Renal dialysis in acute kidney injury with regional citrate anticoagulation Fluid therapy in diabetic ketoacidosis Paediatric sepsis and outcomes Critical Care Guideline based dosing of antibiotics in sepsis Nutrition in critically ill patients Early mobilisation of ICU patients 	<p>Junel Padigos, University of Sunshine Coast</p> <p>Paul Williams, University of Queensland</p> <p>Chris Anstey, University of Queensland</p>

*External Research Grants	**Internal Research Grants
<p>Pathology Queensland (\$25,956): GUIDE Trial - Does guideline-based dosing of beta lactam antibiotics and vancomycin achieve target drug concentrations more than therapeutic drug monitoring-based dosing in critically ill patients?; Paul Williams</p> <p>Intensive Care Foundation Grant (\$20,000): Plasma free cortisol and aldosterone concentration in critically ill patients with septic shock; Dr John Moore</p>	<p>Wishlist/SERTF Research Grant (\$44,075): Early Resuscitation in Paediatric Sepsis Using Inotropes and Metabolic Support – A Randomized Controlled Pilot Study Platform; Dr Paula Lister</p> <p>Wishlist/SERTF Research Grant (\$39,823): PIMS study – An investigation of the utility of microsampling versus traditional blood sampling for antibiotic pharmacokinetics in children; Dr Paula Lister</p> <p>Study, Education, Research Trust Fund (SERTF) (\$19,512): GUIDE trial - Does guideline-based dosing of beta lactam antibiotics and vancomycin achieve target drug concentrations more than therapeutic drug monitoring-based dosing in critically ill patients?; Paul Williams</p>

Future Research Plans/Interests

The year 2020 saw our research endeavours suddenly focussing on pandemic research and being readily able to provide critically unwell pandemic patients with the opportunity to trial treatments tailored specifically to determine optimal therapies for severe pandemic pneumonia. Whilst these pandemic studies remain active, we can currently shift our focus towards our planned future research activities. These will include building on our local investigator driven research, building a nursing research profile, and adding new collaborative multi-centre research to our portfolio of studies.

New studies upcoming in 2021 include:

- Right heart dysfunction in ICU patients
- Nursing research priorities
- Critical illness bone-loss in women
- ICU Nurses role in antimicrobial stewardship
- Nutrition in critically ill patients
- Paediatric blood sampling for antibiotic pharmacokinetics in children
- Therapies in Paediatric sepsis and outcomes
- Development of a multi-centre QLD ICU collaborative
- Extracorporeal membrane oxygenation (ECMO) registry research

Top Research Publications in 2020

Pandemic Research

1. Angus, D. C., et. al., and Writing Committee for the REMAP-CAP Investigators, Effect of Hydrocortisone on Mortality and Organ Support in Patients With Severe COVID-19: The REMAP-CAP COVID-19 Corticosteroid Domain Randomized Clinical Trial. *JAMA* (IF 45.54), 2020. 324(13): p. 1317-1329. DOI: 10.1001/jama.2020.17022 [SCHHS contributors – P. Garrett, L. Murray, L. Forbes, J. Brailsford, and T. Maguire]
2. Collaborative Research
3. Bagshaw, S.M. et. al., STARRT-AKI Investigators, Canadian Critical Care Trials Group, Australian and New Zealand Intensive Care Society Clinical Trials Group, United Kingdom Critical Care Research Group, Canadian Nephrology Trials Network, and Irish Critical Care Trials Group, Timing of Initiation of Renal-Replacement Therapy in Acute Kidney Injury. *New England Journal of Medicine* (IF 74.69), 2020. 383(3): p. 240-251. DOI: 10.1056/nejmoa2000741 [SCHHS contributors – V. Campbell, D. Gutierrez, J. Brailsford, L. Forbes, L. Murray, and T. Maguire]

Nursing Research

4. Lin, F., S. Phelan, W. Chaboyer, and M. Mitchell, Early mobilisation of ventilated patients in the intensive care unit: A survey of critical care clinicians in an Australian tertiary hospital. *Australian Critical Care* (IF 2.21), 2020. 33(2): p. 130-136. DOI: 10.1016/j.aucc.2019.02.002
5. Padigos, J., S. Ritchie, and A.G. Lim, Enhancing nurses' future role in antimicrobial stewardship. *Collegian* (IF 1.83), 2020. 27(5): p. 487-498. DOI: 10.1016/j.colegn.2020.01.005

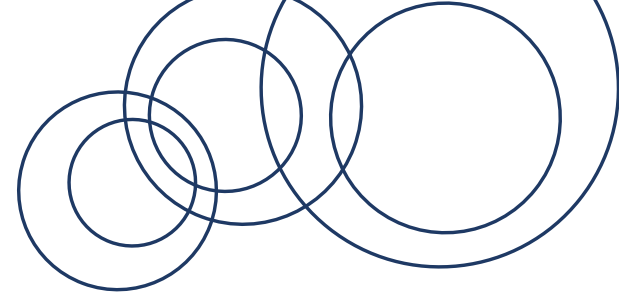
Consultant Research

6. Cohen, J., R. Bellomo, L. Billot, L.M. Burrell, D.M. Evans, S. Finfer, N.E. Hammond, Q. Li, D. Liu, C. McArthur, B. McWhinney, J. Moore, J., Myburgh, S. Peake, C. Pretorius, D. Rajbhandari, A. Rhodes, M. Saxena, J.P.J. Ungerer, M.J. Young, and B. Venkatesh, Plasma Cortisol, Aldosterone, and Ascorbic Acid Concentrations in Patients with Septic Shock Do Not Predict Treatment Effect of Hydrocortisone on Mortality. A Nested Cohort Study. *American Journal of Respiratory and Critical Care Medicine* (IF 17.45), 2020. 202(5): p. 700-707 DOI: 10.1164/rccm.202002-02810c

2020 Full Publication List

ARTICLES:

1. Angus, D. C., et. al., and Writing Committee for the REMAP-CAP Investigators, Effect of Hydrocortisone on Mortality and Organ Support in Patients with Severe COVID-19: The REMAP-CAP COVID-19 Corticosteroid Domain Randomized Clinical Trial. *JAMA* (IF 45.54), 2020. 324(13): p. 1317-1329. DOI: 10.1001/jama.2020.17022 [SCHHS contributors – P. Garrett, L. Murray, L. Forbes, J. Brailsford, and T. Maguire]
2. Bagshaw, S.M. et. al., STARRT-AKI Investigators, Canadian Critical Care Trials Group, Australian and New Zealand Intensive Care Society Clinical Trials Group, United Kingdom Critical Care Research Group, Canadian Nephrology Trials Network, and Irish Critical Care Trials Group, Timing of Initiation of Renal-Replacement Therapy in Acute Kidney Injury. *New England Journal of Medicine* (IF 74.69), 2020. 383(3): p. 240-251. DOI: 10.1056/nejmoa2000741 [SCHHS contributors – V. Campbell, D. Gutierrez, J. Brailsford, L. Forbes, L. Murray, and T. Maguire]
3. Burrell, A.J., B. Pellegrini, F. Salimi, H. Begum, T. Broadley, L.T. Campbell, A.C. Cheng, W. Cheung, D.J. Cooper, A. Earnest, S.J. Erickson, C.J. French, J.M. Kaldor, E. Litton, S. Murthy, R.E. McAllister, A.D. Nichol, A. Palermo, M.P. Plummer, M. Ramanan, B.A. Reddi, C. Reynolds, T. Trapani, S.A. Webb, and A.A. Udy, [SCHHS ICU Active Participating Site], Outcomes for patients with COVID-19 admitted to Australian intensive care units during the first four months of the pandemic. *The Medical Journal of Australia* (IF: 7.73), 2021. 214(1): p. 23-30. DOI: 10.5694/mja2.50883
4. Campbell, V., R. Conway, K. Carey, K. Tran, A. Visser, S. Gifford, M. McLanders, D. Edelson, and M. Churpek, Predicting clinical deterioration with Q-ADDS compared to NEWS, Between the Flags, and eCART track and trigger tools. *Resuscitation* (IF 4.57), 2020. 153: p. 28-34 DOI: 10.1016/j.resuscitation.2020.05.027
5. Cohen, J., R. Bellomo, L. Billot, L.M. Burrell, D.M. Evans, S. Finfer, N.E. Hammond, Q. Li, D. Liu, C. McArthur, B. McWhinney, J. Moore, J., Myburgh, S. Peake, C. Pretorius, D. Rajbhandari, A. Rhodes, M. Saxena, J.P.J. Ungerer, M.J. Young, and B. Venkatesh, Plasma Cortisol, Aldosterone, and Ascorbic Acid Concentrations in Patients with Septic Shock Do Not Predict Treatment Effect of Hydrocortisone on Mortality. A Nested Cohort Study. *American Journal of Respiratory and Critical Care Medicine* (IF 17.45), 2020. 202(5): p. 700-707 DOI: 10.1164/rccm.202002-02810c
6. Crass, R.L., P. Williams, and J.A. Roberts, The challenge of quantifying and managing pharmacokinetic variability of beta-lactams in the critically ill. *Anaesthesia, Critical Care & Pain Medicine* (IF 2.7), 2020. 39(1): p. 27-29 DOI: 10.1016/j.accpm.2019.12.008
7. De Bus, L., P. Depuydt, J. Steen, S. Dhaese, K. De Smet, A. Tabah, M. Akova, M.O. Cotta, G. De Pascale, G. Dimopoulos, S. Fujitani, J. Garnacho-Montero, M. Leone, J. Lipman, M. Ostermann, J.A. Paiva, J. Schouten, F. Sjövall, J.F. Timsit, J.A. Roberts, J.R. Zahar, F. Zand, K. Zirpe, and J.J. De Waele, Antimicrobial de-escalation in the critically ill patient and assessment of clinical cure: the DIANA study. *Intensive Care Medicine* (IF 17.67), 2020. 46(7): p. 1404-1417. [DIANA study group SCHHS collaborators – L. Murray, and L. Forbes] DOI: 10.1007/s00134-020-06111-5

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8. Imani, S., J.-W. Alffenaar, M.O. Cotta, K. Daveson, S. van Hal, C. Lau, D. Marriott, J. Penm, J.A. Roberts, A. Tabah, N. Trethewy, P. Williams, and I. Sandaradura, Therapeutic drug monitoring of commonly used anti-infective agents: A nationwide cross-sectional survey of Australian hospital practices. *International Journal of Antimicrobial Agents* (IF 4.62), 2020. 56(6): p. 106180 DOI: 10.1016/j.ijantimicag.2020.106180
 9. Jansen, M., H. Irving, L. Gillam, E. Sharwood, A. Preisz, S. Basu, C. Delaney, R. McDougall, C. Johnston, D. Isaacs, and P. Lister, Ethical considerations for paediatrics during the COVID-19 pandemic: A discussion paper from the Australian Paediatric Clinical Ethics Collaboration. *Journal of Paediatrics and Child Health* (IF 1.57), 2020. 56(6): p. 847-851 DOI: 10.1111/jpc.14946
 10. Joyce, P.R., R. O'Dempsey, G. Kisby, and C. Anstey, A retrospective observational study of sarcopenia and outcomes in critically ill patients. *Anaesthesia and Intensive Care* (IF 1.53), 2020. 48(3): p. 229-235 DOI: 10.1177/0310057x20922234
 11. Lam, J.H., J.X. Quah, T. Davies, C.J. Boos, K. Nel, C.M. Anstey, T. Stanton, and K. Greaves, Relationship between coronary microvascular dysfunction and left ventricular diastolic function in patients with chest pain and unobstructed coronary arteries. *Echocardiography* (IF 1.39), 2020. 37(8): p. 1199-1204 DOI: 10.1111/echo.14794
 12. Lin, F., S. Phelan, W. Chaboyer, and M. Mitchell, Early mobilisation of ventilated patients in the intensive care unit: A survey of critical care clinicians in an Australian tertiary hospital. *Australian Critical Care* (IF 2.21), 2020. 33(2): p. 130-136. DOI: 10.1016/j.aucc.2019.02.002
 13. Meneses, A.L., M.C.Y. Nam, T.G. Bailey, C. Anstey, J. Golledge, M.A. Keske, K. Greaves, and C.D. Askew, Skeletal muscle microvascular perfusion responses to cuff occlusion and submaximal exercise assessed by contrast-enhanced ultrasound: The effect of age. *Physiological Reports* (IF 4.55), 2020. 8(19) DOI: 10.14814/phyz2.14580
 14. Morgan, T.J. and C.M. Anstey, Expanding the boundaries of point of care testing. *Journal of Clinical Monitoring and Computing* (IF 2.21), 2020. 34(3): p. 397-399 DOI: 10.1007/s10877-019-00344-6
 15. Nam, M.C.Y., A.L. Meneses, C.D. Byrne, T. Richman, J.X. Quah, T.G. Bailey, I. Hickman, C. Anstey, C.D. Askew, R. Senior, T. Stanton, A.W. Russell, and K. Greaves, An Experimental Series Investigating the Effects of Hyperinsulinemic Euglycemia on Myocardial Blood Flow Reserve in Healthy Individuals and on Myocardial Perfusion Defect Size following ST-Segment Elevation Myocardial Infarction. *Journal of the American Society of Echocardiography* (IF 5.50), 2020 DOI: 10.1016/j.echo.2020.01.010
 16. Padigos, J., S. Reid, E. Kirby, and J. Broom, Knowledge, perceptions, and experiences of nurses in antimicrobial optimization or stewardship in the intensive care unit: a systematic review. *The Journal of Hospital Infection* (IF 3.35), 2020 DOI: 10.1016/j.jhin.2020.12.003
 17. Padigos, J., S. Ritchie, and A.G. Lim, Enhancing nurses' future role in antimicrobial stewardship. *Collegian* (IF 1.83), 2020. 27(5): p. 487-498. DOI: 10.1016/j.colegn.2020.01.005
 18. Riley, B., U. Malla, N. Snels, A. Mitchell, C. Abi-Fares, W. Basson, C. Anstey, and L. White, Erector spinae blocks for the management of rib fractures: A pilot matched study. *Journal of Clinical Anesthesia* (IF 6.03), 2020. 63 DOI: 10.1016/j.jclinane.2020.109780
 19. Riley, B., U. Malla, N. Snels, A. Mitchell, C. Abi-Fares, W. Basson, C. Anstey, and L. White, Erector spinae and serratus anterior blocks for the management of rib fractures: A retrospective exploratory matched study. *American Journal of Emergency Medicine* (IF 1.70), 2020. 38(8): p. 1689-1691 DOI: 10.1016/j.ajem.2020.01.007
 20. Robertson, S.T., R.S. Grimley, C. Anstey, and I.C. Rosbergen, Acute stroke patients not meeting their nutrition requirements: Investigating nutrition within the enriched environment. *Clinical Nutrition (Edinburgh, Scotland)* (IF 6.36), 2020. 39(5): p. 1470-1477 DOI: 10.1016/j.clnu.2019.06.009
 21. Warrillow, S., D. Austin, W. Cheung, E. Close, A. Holley, B. Horgan, M. Jansen, G. Joynt, P. Lister, S. Moodie, A. Nichol, M. Nicholls, S. Peake, G. Skowronski, S. Streat, B. White, and L. Willmott, ANZICS guiding principles for complex decision making during the COVID-19 pandemic. *Critical Care and Resuscitation* (IF 3.30), 2020. 22(2): p. 98-102 Available at: https://www.researchgate.net/publication/340717389_ANZICS_guiding_principles_for_complex_decision_making_during_the_COVID-19_pandemic
 22. White, L., B. Riley, U. Malla, N. Snels, A. Mitchell, C. Abi-Fares, W. Basson, and C. Anstey, Erector spinae block versus serratus anterior block in chest wall trauma, which is better?: A response and decision making guide. *The American Journal of Emergency Medicine* (IF 1.7), 2020. 38(10): p. 2221-2223. DOI: 10.1016/j.ajem.2020.08.004
 23. Williams, P., G. Beall, M.O. Cotta, and J.A. Roberts, Antimicrobial dosing in critical care: A pragmatic adult dosing nomogram. *International Journal of Antimicrobial Agents* (IF 4.62), 2020. 55(2): p. 105837-105837 DOI: 10.1016/j.ijantimicag.2019.10.018

ABSTRACTS:

1. McCleary, K., Utilising a simulation-based teaching strategy to develop a new physiotherapy paediatric critical care service in a developing tertiary health service. *Australian Critical Care* (IF 2.21), 2020. 33: p. S17. DOI: 10.1016/j.aucc.2020.04.050
2. McCleary, K., K. Grant, Z. Hutchinson, S. George, N. Powell, and A. Turner, Development of a successful collaborative allied health multi-disciplinary team in a newly established mixed adult and paediatric critical care unit. *Australian Critical Care* (IF 2.21), 2020. 33: p. S17. DOI: 10.1016/j.aucc.2020.04.051

Nephrology

Research Contact:

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Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
6	20	7	\$6,689,855*	\$131,247**

Research Interests	Research Higher Degree Students
<ul style="list-style-type: none"> Caregivers of people with kidney disease Bone mineral disorders in chronic kidney disease Home dialysis Pragmatic trials Haemodialysis vascular access 	<ul style="list-style-type: none"> Dr Melissa Nataatmadja Ms Catherine McFarlane Dr Dev Jegatheesan

*External Research Grants	**Internal Research Grants
<p>National Health and Medical Research Council Partnership Grant (\$1,192,237): Reducing the burden of dialysis catheter complications: A national approach; CIE Nicholas Gray, 2016 to current</p> <p>Queensland Advancing Clinical Research Fellowship (\$150,000): Predicting and facilitating success on home dialysis, through understanding of burden, quality of life and patient outcomes; CIA Melissa Nataatmadja, 2020 to current</p> <p>Queensland Advancing Clinical Research Fellowship (\$300,000): Development and Implementation of Innovative Pragmatic Trials to Improve Patient-centred Outcomes in Dialysis; CIA Rathika Krishnasamy, 2019 to current</p> <p>Health Research Council New Zealand Project Grant (\$1.2 million NZD – equivalent to \$1,122,618 AUD as at 2/6/2021): PHOSPHATE: Pragmatic randomised trial of High Or Standard PHosphAte Targets in End-stage kidney disease: CIG Rathika Krishnasamy, 2019 to current</p> <p>Medical Research Future Fund Project Grant (\$2.2 million): Better Evidence and Translation for Calciphylaxis (BEAT-Calci); CIF Rathika Krishnasamy, 2019- to current</p> <p>National Health and Medical Research Council Project Grant (\$1.7 million): PHOSPHATE: Pragmatic randomised trial of High Or Standard PHosphAte Targets in End-stage kidney disease; CIG Rathika Krishnasamy, 2018 - current</p> <p>Metro South Health Research Support Scheme (\$25,000): Validation of Clinical Trial Outcomes Using Hospital Administrative Data; CIC Rathika Krishnasamy</p>	<p>Wishlist-SERTF Research Grant (\$46,029): Caregivers of the infirm elderly with end stage kidney disease: The Co-TIMELY study; Nick Gray</p> <p>Wishlist-SERTF Research Grant (\$19,998): Validation of Clinical Trial Outcomes Using Hospital Administrative Data and Electronic Medical Records - A Data Linkage Project; Rathika Krishnasamy</p> <p>Wishlist-SERTF Research Grant (\$50,000): Social justice and antimicrobial resistance: A sociological study of vulnerability; Nick Gray</p> <p>Wishlist-SERTF Research Grant (\$15,220): Identifying and prioritising outcomes for exercise interventions in patients with chronic kidney disease; Rathika Krishnasamy</p>

Awards and special recognitions

- Best Oral Abstract Presentation, Biennial Australian & New Zealand Home Dialysis Conference, 2020: Dr Melissa Nataatmadja

Future Research Plans/Interests

ACCESS HD – an RCT of AVF vs catheter in the elderly on dialysis

Elderly and kidney failure

Magnesium supplementation

Data linkage

Adaptive platform trials

Diet quality in Chronic Kidney Disease

Top Research Publications in 2020

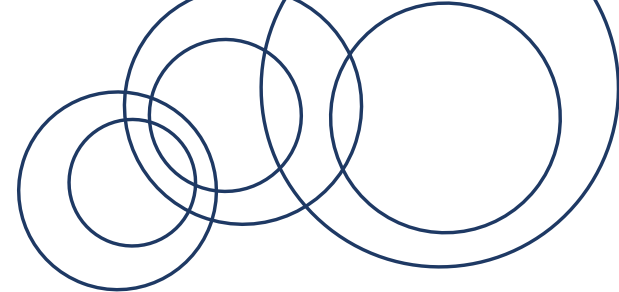
1. Badve, S.V., E.M. Pascoe, A. Tikou, N. Boudville, F.G. Brown, A. Cass, P. Clarke, N. Dalbeth, R.O. Day, J.R. de Zoysa, B. Douglas, R. Faull, D.C. Harris, C.M. Hawley, G.R.D. Jones, J. Kanellis, S.C. Palmer, V. Perkovic, G.K. Rangan, D. Reidlinger, L. Robison, R.J. Walker, G. Walters, and D.W. Johnson; CKD-FIX Study Investigators (et. al. including SCHHS cotributors – A. Pollock, R. Krishnasamy), Effects of Allopurinol on the Progression of Chronic Kidney Disease. *New England Journal of Medicine* (IF: 74.7), 2020. 382(26): p. 2504-2513. DOI: 10.1056/nejmoa1915833
2. Campbell, V.K., R.P. Gately, R. Krishnasamy, D. Burg, G.R. Robertson, and N.A. Gray, Midkine and chronic kidney disease-associated multisystem organ dysfunctions. *Nephrology, Dialysis, Transplantation* (IF: 4.08), 2020. DOI: 10.1093/ndt/gfaa084
3. Kelly, J.T., M. Conley, T. Hoffmann, J.C. Craig, A. Tong, D.P. Reidlinger, M.M. Reeves, K. Howard, R. Krishnasamy, J. Kurtkoti, S.C. Palmer, D.W. Johnson, and K.L. Campbell, A Coaching Program to Improve Dietary Intake of Patients with CKD: ENTICE-CKD. *Clinical Journal of the American Society of Nephrology* (IF: 6.6), 2020. 15(3): p. 330-340 DOI: 10.2215/cjn.12341019
4. Nataatmadja, M., N. Evangelidis, K.E. Manera, Y. Cho, D.W. Johnson, J.C. Craig, A. Baumgart, C.S. Hanson, J. Shen, C. Guha, N. Scholes-Robertson, and A. Tong, Perspectives on mental health among patients receiving dialysis. *Nephrology, Dialysis, Transplantation* (IF: 4.08), 2020. DOI: 10.1093/ndt/gfaa346
5. Walsh, M., P.A. Merkel, C.A. Peh, W.M. Szpirt, X. Puéchal, S. Fujimoto, C.M. Hawley, N. Khalidi, O. Floßmann, R. Wald, L.P. Girard, A. Levin, G. Gregorini, L. Harper, W.F. Clark, C. Pagnoux, U. Specks, L. Smyth, V. Tesar, T. Ito-Ihara, J.R. de Zoysa, W. Szczeklik, L.F. Flores-Suárez, S. Carette, L. Guillevin, C.D. Pusey, A.L. Casian, B. Brezina, A. Mazzetti, C.A. McAlear, E. Broadhurst, D. Reidlinger, S. Mehta, N. Ives, and D.R.W. Jayne; PEXIVAS Investigators (et. al. including E. Noble), Plasma Exchange and Glucocorticoids in Severe ANCA-Associated Vasculitis. *New England Journal of Medicine* (IF: 74.7), 2020. 382(7): p. 622-631. DOI: 10.1056/nejmoa1803537

2020 Full Publication List

ARTICLES:

1. Badve, S.V., E.M. Pascoe, A. Tikou, N. Boudville, F.G. Brown, A. Cass, P. Clarke, N. Dalbeth, R.O. Day, J.R. de Zoysa, B. Douglas, R. Faull, D.C. Harris, C.M. Hawley, G.R.D. Jones, J. Kanellis, S.C. Palmer, V. Perkovic, G.K. Rangan, D. Reidlinger, L. Robison, R.J. Walker, G. Walters, and D.W. Johnson; CKD-FIX Study Investigators (et. al. including R. Krishnasamy), Effects of Allopurinol on the Progression of Chronic Kidney Disease. *New England Journal of Medicine* (IF: 74.7), 2020. 382(26): p. 2504-2513. DOI: 10.1056/nejmoa1915833
2. Campbell, V.K., R.P. Gately, R. Krishnasamy, D. Burg, G.R. Robertson, and N.A. Gray, Midkine and chronic kidney disease-associated multisystem organ dysfunctions. *Nephrology, Dialysis, Transplantation* (IF: 4.08), 2020. DOI: 10.1093/ndt/gfaa084
3. Cho, Y., A. Tong, J.C. Craig, R.A. Mustafa, A. Chapman, R.D. Perrone, C. Ahn, K. Fowler, V. Torres, R.T. Gansevoort, A.C.M. Ong, H. Coolican, J. Tze-Wah Kao, T. Harris, T. Gutman, J.I. Shen, A.K. Viecelli, D.W. Johnson, E. Au, R. El-Damanawi, C. Logeman, A. Ju, K.E. Manera, M. Chonchol, D. Odland, D. Baron, Y. Pei, B. Sautenet, A. Rastogi, A. Sharma, and G. Rangan; SONG-PKD Workshop Investigators (et. al. including R. Krishnasamy), Establishing a Core Outcome Set for Autosomal Dominant Polycystic Kidney Disease: Report of the Standardized Outcomes in Nephrology-Polycystic Kidney Disease (SONG-PKD) Consensus Workshop. *American Journal of Kidney Disease* (IF: 6.61), 2021. 77(2): p. 255-263. DOI: 10.1053/j.ajkd.2020.05.024

4. Craswell, A., D. Massey, M. Wallis, D. Sriram, N.A. Gray, S. Kotwal, and R. Investigators, Current practice in dialysis central venous catheter management: Multi-disciplinary renal team perspectives. *Nephrology* (IF: 1.91), 2020. 25(5): p. 406-412 DOI: 10.1111/nep.13626
5. Gan, R., N.P. Rosoman, D.J.E. Henshaw, E.P. Noble, P. Georgius, and N. Sommerfeld, COVID-19 as a viral functional ACE2 deficiency disorder with ACE2 related multi-organ disease. *Medical Hypotheses* (IF: 1.37), 2020. 144: p. 110024 DOI: 10.1016/j.mehy.2020.110024
6. Kelly, J.T., M. Conley, T. Hoffmann, J.C. Craig, A. Tong, D.P. Reidlinger, M.M. Reeves, K. Howard, R. Krishnasamy, J. Kurtkoti, S.C. Palmer, D.W. Johnson, and K.L. Campbell, A Coaching Program to Improve Dietary Intake of Patients with CKD: ENTICE-CKD. *Clinical Journal of the American Society of Nephrology* (IF: 6.6), 2020. 15(3): p. 330-340 DOI: 10.2215/cjn.12341019
7. Kotwal, S., S. Coggan, S. McDonald, G. Talaulikar, A. Cass, S. Jan, K.R. Polkinghorne, N.A. Gray, and M. Gallagher, REDUcing the burden of dialysis Catheter ComplicaTIONs: a National approach (REDUCCTION) – design and baseline results. *Kidney360*, 2020. 1(8): p. 746. DOI: 10.34067/KID.0001132020
8. Krishnasamy, R., C.M. Hawley, M.J. Jardine, M.A. Roberts, Y. Cho, M. Wong, A. Heath, C.L. Nelson, S. Sen, P.F. Mount, E.M. Pascoe, L.A. Vergara, P.-A. Paul-Brent, N.D. Toussaint, D.W. Johnson, and C.A. Hutchison, A tRial Evaluating Mid Cut-Off Value Membrane Clearance of Albumin and Light Chains in HemoDialysis Patients: A Safety Device Study. *Blood Purification* (IF: 2.11), 2020. 49(4): p. 468-478 DOI: 10.1159/000505567
9. Krishnasamy, R., D. Jegatheesan, P. Lawton, and N.A. Gray, Socioeconomic status and dialysis quality of care. *Nephrology* (IF: 1.91), 2020. 25(5): p. 421-428. DOI: 10.1111/nep.13629
10. Nataatmadja, M., N. Evangelidis, K.E. Manera, Y. Cho, D.W. Johnson, J.C. Craig, A. Baumgart, C.S. Hanson, J. Shen, C. Guha, N. Scholes-Robertson, and A. Tong, Perspectives on mental health among patients receiving dialysis. *Nephrology, Dialysis, Transplantation* (IF: 4.08), 2020: gfaa346. DOI: 10.1093/ndt/gfaa346
11. Nataatmadja, M., A.W.S. Fung, B. Jacobson, J. Ferera, E. Bernstein, P. Komenda, A. Mattman, D. Secombe, and A. Levin, Performance of StatSensor Point-of-Care Device for Measuring Creatinine in Patients With Chronic Kidney Disease and Postkidney Transplantation. *Canadian Journal of Kidney Health and Disease* (IF: 1.78), 2020. 7 DOI: 10.1177/2054358120970716
12. Ng, J.K., B. Smyth, M.R. Marshall, A. Kang, J. Pinter, A. Bassi, R. Krishnasamy, P. Rossignol, M.V. Rocco, Z. Li, V. Jha, C.M. Hawley, P.G. Kerr, D.I.T. GL, M. Woodward, and A.M. Jardine, Relationship between measured and prescribed dialysate sodium in haemodialysis: a systematic review and meta-analysis. *Nephrology, Dialysis, Transplantation* (IF: 4.08), 2021. 36(4): p. 695-703. DOI: 10.1093/ndt/gfaa287
13. Manera, K.E., D.W. Johnson, J.C. Craig, J.I. Shen, T. Gutman, Y. Cho, A.Y. Wang, E.A. Brown, G. Brunier, J. Dong, T. Dunning, R. Mehrotra, S. Naicker, R. Pecoits-Filho, J. Perl, M. Wilkie, and A. Tong; SONG-PD Workshop Investigators (et. al. including M. Nataatmadja), Establishing a Core Outcome Set for Peritoneal Dialysis: Report of the SONG-PD (Standardized Outcomes in Nephrology-Peritoneal Dialysis) Consensus Workshop. *American Journal of Kidney Disease* (IF: 6.61), 2020. 75(3): p. 404-412. DOI: 10.1053/j.ajkd.2019.09.017
14. Manera, K.E., A. Ju, A. Baumgart, E. Hannan, W. Qiao, M. Howell, M. Nataatmadja, M. Wilkie, F. Loud, D. Schwartz, H. Hurst, S.V. Jassal, A. Figueiredo, R. Mehrotra, J. Shen, R.L. Morton, T. Moraes, R. Walker, C. Cheung, J.F. Farragher, J. Craig, D.W. Johnson, and A. Tong, Patient-reported outcome measures for life participation in peritoneal dialysis: a systematic review. *Nephrology, Dialysis, Transplantation* (IF: 4.08), 2021. 36(5): p. 890-901. DOI: 10.1093/ndt/gfaa244
15. Smyth, B., C.T. Chan, S.M. Grieve, R. Puranik, L. Zuo, D. Hong, N.A. Gray, J.R. De Zoysa, A. Scaria, M. Gallagher, V. Perkovic, and M. Jardine, Predictors of Change in Left-Ventricular Structure and Function in a Trial of Extended Hours Hemodialysis. *Journal of Cardiac Failure* (IF: 3.25), 2020. 26(6): p. 482-491 DOI: 10.1016/j.cardfail.2020.03.010
16. Smyth, B., L. Zuo, N.A. Gray, C.T. Chan, J.R. de Zoysa, D. Hong, K. Rogers, J. Wang, A. Cass, M. Gallagher, V. Perkovic, and M. Jardine, No evidence of a legacy effect on survival following randomization to extended hours dialysis in the ACTIVE Dialysis trial. *Nephrology* (IF: 1.91), 2020: p. e13737 DOI: 10.1111/nep.13737
17. Snelson, M., A. Biruete, C. McFarlane, and K. Campbell, A renal clinician's guide to the gut microbiota. *Journal of Renal Nutrition* (IF: 2.92), 2020. 30(5): p.384-395 DOI: 10.1053/j.jrn.2019.11.002
18. Walsh, M., P.A. Merkel, C.A. Peh, W.M. Szpirt, X. Puéchal, S. Fujimoto, C.M. Hawley, N. Khalidi, O. Floßmann, R. Wald, L.P. Girard, A. Levin, G. Gregorini, L. Harper, W.F. Clark, C. Pagnoux, U. Specks, L. Smyth, V. Tesar, T. Ito-Ihara, J.R. de Zoysa, W. Szczeklik, L.F. Flores-Suárez, S. Carette, L. Guillevin, C.D. Pusey, A.L. Casian, B. Brezina, A. Mazzetti, C.A. McAlear, E. Broadhurst, D. Reidlinger, S. Mehta, N. Ives, and D.R.W. Jayne; PEXIVAS Investigators (et. al. including E. Noble), Plasma Exchange and Glucocorticoids in Severe ANCA-Associated Vasculitis. *New England Journal of Medicine* (IF: 74.7), 2020. 382(7): p. 622-631. DOI: 10.1056/nejmoa1803537



LETTERS:

1. Smyth, B., C.T. Chan, S.M. Grieve, R. Puranik, L. Zuo, D. Hong, N.A. Gray, J.R. de Zoysa, A. Scaria, M. Gallagher, V. Perkovic, and M. Jardine, Response to: Loutradis et al. Longer Dialysis Sessions Improve Cardiac Systolic Function by Reducing Myocardial Stunning. *Journal of Cardiac Failure* (IF: 3.94), 2020. 26(11): p. 1028-1029. DOI: 10.1016/j.cardfail.2020.09.001

BOOK CHAPTERS:

1. Nataatmadja, M. and N. Gray, Caregivers of people with kidney disease, in *Psychosocial Aspects of Chronic Kidney Disease* D. Cukor, S. Cohen, and P.L. Kimmel, Editors. 2020, Elsevier. p. 473-497.

CONFERENCE ABSTRACTS / PRESENTATION

1. De Souza, L., N. Gray, J. Waugh, and R. Krishnasamy, Complimentary and alternative medicine use in kidney transplant recipients. *Nephrology* (IF: 1.91), 2020. 25: p. 77-77 Available from: <https://www.anzsnasm.com/11177>
2. Gallagher, M.P., S.S. Kotwal, G.S. Talaulikar, N.A. Gray, K. Polkinghorne, S.P. McDonald, and A. Cass, Reducing the burden of dialysis catheter complications: A national approach (reducction). *Journal of the American Society of Nephrology* (IF: 9.27), 2020. 31: p. B2 Available from: <https://www.embase.com/a/#/search/results?subaction=viewrecord&id=L633697302&from=export>
3. Gray, N., New outputs from ANZDATA KPI Reports. 55th Australian and New Zealand Society of Nephrology (ANZSN) Annual Scientific Meeting - ANZDATA Symposium, Online December, 2020
4. Jegatheesan, D., R. Modderman, R. Krishnasamy, A. Tong, J. Coombes, A. Viecelli, D. Johnson, N. Isbel, A systematic review of physical fitness outcomes and outcome measures in kidney disease. *Nephrology* (IF: 1.91) 2020. 25: p. 58-58 Available from: <https://www.anzsnasm.com/10321>
5. Lambooy, S., R. Krishnasamy, and N. Gray, Telemedicine for outpatient care of kidney transplant and chronic kidney disease patients. *Nephrology* (IF: 1.91), 2020. 25: p. 53-53 Available from: <https://www.anzsnasm.com/10824>
6. Tiong, M.K., N.D. Toussaint, E.R. Smith, C.A. Hutchison, E.M. Pascoe, E.G. Ryan, C.M. Hawley, R. Krishnasamy, Effects of a medium cut-off dialyser on protein-bound solutes and mineral metabolism markers - a sub-study of the REMOVAL-HD trial. *Nephrology* (IF: 1.91) 2020. 25: p72-73 Available from: <https://anzsnasm.com/11128>
7. Tunnicliffe, D.J., S. Palmer, J.C. Craig, D.W. Johnson, B. Cashmore, V. M. Saglimbene, R. Krishnasamy, K. Lambert, G.F.M. Strippoli, HMG COA reductase inhibitors (statins) for people with chronic kidney disease not requiring dialysis: a living Cochrane review. *Nephrology* (IF: 1.91), 2020. 25: p29-29. Available from: <https://www.anzsnasm.com/11270>

Neuroscience and Geriatric

Research Contact:

Dr Rohan Grimley Rohan.Grimley@health.qld.gov.au

Alana Campbell Alana.Campbell@health.qld.gov.au

Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
20	16	Nil	\$1,025,080*	\$19,538

Research Interests	Research Higher Degree Students
<p>Neuroscience and Geriatric Research Collaboration—to build a strong research program within neuroscience department across acute, subacute and community with a focus on translating evidence-based knowledge into clinical practice, improve quality of care and health service delivery. Our researchers have advanced experience in data analytics, multidisciplinary care delivery and implementation science, physical activity, cognition and recovery from age-related diseases and impairments.</p>	<ul style="list-style-type: none"> • Samantha Robertson (PhD) • Claire Stewart (PhD) • Amanda Baker (PhD) • Rohan Grimley (PhD) • Alana Campbell (PhD)

*External Research Grants	Internal Research Grants
<p>Health Practitioner Research Scheme (\$155,080): The efficacy of telerehabilitation compared with centre-based community rehabilitation on time spent physically active in people with stroke: A pilot randomized controlled trial; I. Rosbergen, R. Grimley, T. Russell, S. Brauer, C. Tracey, N. Greveling, J. Endacott, and T. Comans</p> <p>Queensland Advancing Clinical Research Fellowship (\$150 000): The effects of financial incentives to improve stroke unit access in Queensland on outcomes and hospital processes of care; Rohan Grimley</p> <p>Digital Health Collaborative Research Centre and Queensland Health 'Bringing Digital Excellence to Clinical Excellence' (\$180,000 over 4 years); Samantha Robertson</p>	<p>Wishlist-SERTF Research Grant (\$19,538): The efficacy of telerehabilitation compared with centre-based community rehabilitation on time spent physically active in people with stroke: A pilot randomized controlled trial; I. Rosbergen, R. Grimley, T. Russell, S. Brauer, C. Tracey, N. Greveling, J. Endacott, and T. Comans</p>

Future Research Plans/Interests

- To grow a strong 'Neuroscience and Geriatric Research Collaborative' which results in growth of research activities across acute, subacute and community in close collaboration with stakeholders. The collaborative focus will include multidisciplinary care, activity, health service research, and rehabilitation and recovery from age related diseases and impairments.
- Samantha Robertson has received a PhD scholarship valued at \$180,000. She will investigate 'The impact of a clinically-led innovation of the ieMR for stroke on integrated care, interprofessional practice and real-time data analytics.' She commenced her PhD in the second half of 2020.
- Continue to contribute to large international, multi-site RCTs
- Initiate in 2020/ 2021: Co-design and RCT 'Efficacy of telerehabilitation post stroke'
- Collaboration with Queensland University of Technology - Shear wave elastography in the biceps post-stroke and the development of spasticity

Top Research Publications in 2020

1. Grimley, R.S., I.C. Rosbergen, L. Gustafsson, E. Horton, T. Green, G. Cadigan, S. Kuys, N.E. Andrew, and D.A. Cadilhac, Dose and setting of rehabilitation received after stroke in Queensland, Australia: a prospective cohort study. *Clinical Rehabilitation* (IF: 2.59), 2020. 34(6): p. 812-823. DOI: 10.1177/0269215520916899
2. Robertson, S.T., R.S. Grimley, C. Anstey, and I.C. Rosbergen, Acute stroke patients not meeting their nutrition requirements: Investigating nutrition within the enriched environment. *Clinical Nutrition* (Edinburgh, Scotland) (IF: 6.77), 2020. 39(5): p. 1470-1477 DOI: 10.1016/j.clnu.2019.06.009
3. Rosbergen, I.C.M., I. Tonello, R.A. Clark, and R.S. Grimley, Does hospital design impact on patient activity levels and time spent alone? *Disability and Rehabilitation* (IF: 2.05), 2020: p. 1-8 DOI: 10.1080/09638288.2020.1861117
4. Stewart, C., E. Power, A. McCluskey, and S. Kuys, Development of a participatory, tailored behaviour change intervention to increase active practice during inpatient stroke rehabilitation. *Disability and Rehabilitation* (IF: 2.05), 2020. 42(24): p. 3516-3524 DOI: 10.1080/09638288.2019.1597178
5. Stewart, C., E. Power, A. McCluskey, S. Kuys, and M. Lovarini, Evaluation of a staff behaviour change intervention to increase the use of ward-based practice books and active practice during inpatient stroke rehabilitation: a phase-1 pre-post observational study. *Clinical Rehabilitation* (IF: 2.59), 2020. 34(5): p. 607-616 DOI: 10.1177/0269215520911420

2020 Full Publication List

ARTICLES:

1. Andrew, N.E., M.F. Kilkenny, V. Sundararajan, J. Kim, S.G. Faux, A.G. Thrift, T. Johnston, R. Grimley, M. Gattellari, J.M. Katzenellenbogen, H.M. Dewey, N.A. Lannin, C.S. Anderson, and D.A. Cadilhac, Hospital Presentations in Long-Term Survivors of Stroke: Causes and Associated Factors in a Linked Data Study. *Stroke* (IF: 7.19), 2020. 51(12): p. 3673-3680. DOI: 10.1161/strokeaha.120.030656
2. Chapman, C., D.A. Cadilhac, P. Morgan, M.F. Kilkenny, R. Grimley, V. Sundararajan, T. Purvis, T. Johnston, N.A. Lannin, and N.E. Andrew, Chest infection within 30 days of acute stroke, associated factors, survival and the benefits of stroke unit care: Analysis using linked data from the Australian Stroke Clinical Registry. *International Journal of Stroke* (IF: 4.88), 2020. 15(4): p. 390-398 DOI: 10.1177/1747493019833008
3. Grimley, R.S., I.C. Rosbergen, L. Gustafsson, E. Horton, T. Green, G. Cadigan, S. Kuys, N.E. Andrew, and D.A. Cadilhac, Dose and setting of rehabilitation received after stroke in Queensland, Australia: a prospective cohort study. *Clinical Rehabilitation* (IF: 2.59), 2020. 34(6): p. 812-823. DOI: 10.1177/0269215520916899
4. Hardy, T.A., R.L. Taylor, J. Qiu, B. O'Brien, S. Gopinath, B. Trewin, P.J. Spring, M. Shaffi, S.J. Bolitho, R.J. Garsia, R. Roxburgh, D.F. Mason, J. Ip, F. Chan, L. Chen, I. Wilson, H.N. Beadnall, M.H. Barnett, J.D.E. Parratt, J.D.G. Watson, M.S. Welgampola, S.W. Reddel, B. Tsang, and G.M. Halmagyi, The neuro-otology of Susac syndrome. *Journal of Neurology* (IF: 3.78), 2020. 267(12): p. 3711-3722 DOI: 10.1007/s00415-020-10086-0
5. Kilkenny, M.F., L.L. Dalli, J. Kim, V. Sundararajan, N.E. Andrew, H.M. Dewey, T. Johnston, S.M. Alif, R.I. Lindley, M. Jude, D. Blacker, N. Gange, R. Grimley, J.M. Katzenellenbogen, A.G. Thrift, N.A. Lannin, and D.A. Cadilhac, Factors Associated With 90-Day Readmission After Stroke or Transient Ischemic Attack: Linked Data From the Australian Stroke Clinical Registry. *Stroke* (IF: 7.19), 2020. 51(2): p. 571-578 DOI: 10.1161/strokeaha.119.026133

6. Lynch, E.A., A.S. Labberton, J. Kim, M.F. Kilkenny, N.E. Andrew, N.A. Lannin, R. Grimley, S.G. Faux, and D.A. Cadilhac, Out of sight, out of mind: long-term outcomes for people discharged home, to inpatient rehabilitation and to residential aged care after stroke. *Disability and Rehabilitation* (IF: 2.38), 2020: p. 1-7. DOI: 10.1080/09638288.2020.1852616
7. Phan, H.T., S.L. Gall, C.L. Blizzard, N.A. Lannin, A.G. Thrift, C.S. Anderson, J. Kim, R.S. Grimley, H.C. Castley, M.F. Kilkenny, and D.A. Cadilhac, Sex differences in quality of life after stroke were explained by patient factors, not clinical care: evidence from the Australian Stroke Clinical Registry. *European Journal of Neurology* (IF: 4.38), 2020 DOI: 10.1111/ene.14531
8. Robertson, S.T., R.S. Grimley, C. Anstey, and I.C. Rosbergen, Acute stroke patients not meeting their nutrition requirements: Investigating nutrition within the enriched environment. *Clinical Nutrition* (Edinburgh, Scotland) (IF: 6.77), 2020. 39(5): p. 1470-1477 DOI: 10.1016/j.clnu.2019.06.009
9. Rosbergen, I.C.M., I. Tonello, R.A. Clark, and R.S. Grimley, Does hospital design impact on patient activity levels and time spent alone? *Disability and Rehabilitation* (IF: 2.05), 2020: p. 1-8 DOI: 10.1080/09638288.2020.1861117
10. Stewart, C., E. Power, A. McCluskey, and S. Kuys, Development of a participatory, tailored behaviour change intervention to increase active practice during inpatient stroke rehabilitation. *Disability and Rehabilitation* (IF: 2.05), 2020. 42(24): p. 3516-3524 DOI: 10.1080/09638288.2019.1597178
11. Stewart, C., E. Power, A. McCluskey, S. Kuys, and M. Lovarini, Evaluation of a staff behaviour change intervention to increase the use of ward-based practice books and active practice during inpatient stroke rehabilitation: a phase-1 pre-post observational study. *Clinical Rehabilitation* (IF: 2.59), 2020. 34(5): p. 607-616 DOI: 10.1177/0269215520911420
12. Stockwell-Smith, G., Y. Santoso, K. Layton, E. Soleil-Moudiky-Joh, W. Moyle, A. Marshall, A. Argo, A. Teodorczuk, K. Natarajen, J. Todd, and L. Grealish, Partnering for discharge. *Australian Journal of Dementia Care*, 2020. 9(3). Available from: <https://journalofdementiacare.com/julyaugustseptember-2020/>
13. Sutherland, H.G., N. Maksemous, C.L. Albury, O. Ibrahim, R.A. Smith, R.A. Lea, L.M. Haupt, B. Jenkins, B. Tsang, and L.R. Griffiths, Comprehensive exonic sequencing of hemiplegic migraine-related genes in a cohort of suspected probands identifies known and potential pathogenic variants. *Cells* (IF: 4.36), 2020. 9(11): p. 1-16 DOI: 10.3390/cells9112368
14. Winkel, A., Calculated Decisions: HINTS for stroke in acute vestibular syndrome. *Emergency Medicine Practice* (IF: 0.56), 2020. 22(7): p. CD3-CD4 Available at: <https://europepmc.org/article/med/33112578>
15. Woodrow, H., M.K. Horne, C.V. Fernando, K.E. Kotschet, A. Bhattacharya, R. Blaze, A. Charmley, B. Cruse, S. Duma, A. Evans, M. Ghaly, B. Giarola, A.J. Halliday, T. Kimber, A. Kumar, A. Lehn, K. Lilley, A. Ma, N. Mahant, S. McModie, M. Perera, H.M. Tang, J.W. Tillett, S. Tisch, A. Winkel, and C. Wools, A blinded, controlled trial of objective measurement in Parkinson's disease. *NPJ Parkinson's Disease* (IF: 5.17), 2020. 6(1) DOI: 10.1038/s41531-020-00136-9
16. Zhang, W., C.S. Anderson, M.F. Kilkenny, J. Kim, H.M. Dewey, N.E. Andrew, N.A. Lannin, A.G. Thrift, R. Grimley, V. Sundararajan, and D.A. Cadilhac, Hospital admissions prior to primary intracerebral haemorrhage and relevant factors associated with survival. *Journal of Stroke and Cerebrovascular Diseases* (IF: 1.78), 2020. 29(9): p. 105026. DOI: 10.1016/j.jstrokecerebrovasdis.2020.105026



Medical Oncology

Research Contact:

Carrie Donohoe

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Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
7	6	-	-	-

Research Interests	Research Higher Degree Students
<ul style="list-style-type: none"> Impact of COVID-19 on healthcare workers and systems Neuroendocrine cancers Gastroesophageal cancers 	Ms Cassandra Dickens, Master of Nurse Practitioner, University of Queensland

Awards and special recognitions

Convenor for Clinical Oncology Society of Australia (COSA) Annual Scientific Meeting, November 2020; Bryan Chan

Top Research Publications in 2020

ARTICLES:

1. Gasper, H., E. Ahern, N. Roberts, B. Chan, Z. Lwin, and M.C.C.C. Qualitative, COVID-19 and the cancer care workforce: From doctors to ancillary staff. *Seminars in Oncology* (IF 3.60), 2020. 47(5): p. 309-311 DOI: 10.1053/j.seminoncol.2020.06.001
2. Jiang, D.M., C. Suzuki, O. Espin-Garcia, C.H. Lim, L.X. Ma, P. Sun, H.W. Sim, A. Natori, B.A. Chan, S. Moignard, E.X. Chen, G. Liu, C.J. Swallow, G.E. Darling, R. Wong, R.W. Jang, and E. Elimova, Surveillance and outcomes after curative resection for gastroesophageal adenocarcinoma. *Cancer Medicine* (IF 3.36), 2020. 9(9): p. 3023-3032 DOI: 10.1002/cam4.2948
3. Ma, L.X., O. Espin-Garcia, C.H. Lim, D.M. Jiang, H.W. Sim, A. Natori, B.A. Chan, C. Suzuki, E.X. Chen, G. Liu, S.S. Brar, C.J. Swallow, J.C. Yeung, G.E. Darling, R.K. Wong, S.N. Kalimuthu, J. Conner, E. Elimova, and R.W. Jang, Impact of adjuvant therapy in patients with a microscopically positive margin after resection for gastric and esophageal cancers. *Journal of Gastrointestinal Oncology* (IF 2.53), 2020. 11(2): p. 356-365. DOI: 10.21037/jgo.2020.03.03
4. Ma, L.X., P. Sun, O. Espin-Garcia, C. Suzuki, D.M. Jiang, C.H. Lim, K. Taylor, B.A. Chan, H.-W. Sim, A. Natori, E.X. Chen, G. Liu, J.J. Knox, J. Yeung, G.E. Darling, J. Kim, S. Kalimuthu, E. Elimova, and R.W.-J. Jang, Patterns of disease, treatment, and outcomes of esophageal cancer arising within a previous radiation treatment field. *Journal of Clinical Oncology* (IF 32.95), 2020. 38(4_suppl): p. 328-328. DOI: 10.1200/JCO.2020.38.4_suppl.328

INVITED SPEAKER:

1. Chan, B., Demonstrating the power of QOOL at the individual patient level: QOOL dash - Tracking my Lung cancer MDT performance. Plenary – Clinical Oncology Society of Australia Annual Scientific Meeting. *Asia-Pacific Journal of Clinical Oncology* (IF 2.01), 2020. 16(S8), Melbourne, November 2020 DOI: 10.1111/ajco.13496

2020 Full Publication List

ARTICLES:

- Ahern, E., H. Gasper, B. Chan, N. Roberts, B. Hughes, D. Wyld, G. Kennedy, M. Eastgate, and Z. Lwin, Psychosocial impacts of COVID-19 on oncology workforces: Metro versus regional Australia. *Journal of Clinical Oncology* (IF 32.95), 2020. 38: p. 111-111. DOI: 10.1200/JCO.2020.38.29_suppl.111
- 2.Gasper, H., E. Ahern, N. Roberts, B. Chan, Z. Lwin, and M.C.C.C. Qualitative, COVID-19 and the cancer care workforce: From doctors to ancillary staff. *Seminars in Oncology* (IF 3.60), 2020. 47(5): p. 309-311 DOI: 10.1053/j.seminoncol.2020.06.001
- Jiang, D.M., C. Suzuki, O. Espin-Garcia, C.H. Lim, L.X. Ma, P. Sun, H.W. Sim, A. Natori, B.A. Chan, S. Moignard, E.X. Chen, G. Liu, C.J. Swallow, G.E. Darling, R. Wong, R.W. Jang, and E. Elimova, Surveillance and outcomes after curative resection for gastroesophageal adenocarcinoma. *Cancer Medicine* (IF 3.36), 2020. 9(9): p. 3023-3032 DOI: 10.1002/cam4.2948
- Ma, L.X., O. Espin-Garcia, C.H. Lim, D.M. Jiang, H.W. Sim, A. Natori, B.A. Chan, C. Suzuki, E.X. Chen, G. Liu, S.S. Brar, C.J. Swallow, J.C. Yeung, G.E. Darling, R.K. Wong, S.N. Kalimuthu, J. Conner, E. Elimova, and R.W. Jang, Impact of adjuvant therapy in patients with a microscopically positive margin after resection for gastric and esophageal cancers. *Journal of Gastrointestinal Oncology* (IF 2.53), 2020. 11(2): p. 356-365. DOI: 10.21037/jgo.2020.03.03
- Ma, L.X., P. Sun, O. Espin-Garcia, C. Suzuki, D.M. Jiang, C.H. Lim, K. Taylor, B.A. Chan, H.-W. Sim, A. Natori, E.X. Chen, G. Liu, J.J. Knox, J. Yeung, G.E. Darling, J. Kim, S. Kalimuthu, E. Elimova, and R.W.-J. Jang, Patterns of disease, treatment, and outcomes of esophageal cancer arising within a previous radiation treatment field. *Journal of Clinical Oncology* (IF 32.95), 2020. 38(4_suppl): p. 328-328. DOI: 10.1200/JCO.2020.38.4_suppl.328
- Roberts, N., B. Chan, E. Ahern, H. Gasper, G. Kennedy, B. Hughes, D. Wyld, M. Eastgate, and Z. Lwin, Emotional impact of COVID-19 preparations on metro and regional cancer workforces in Queensland Australia: "We are all in this together ". *Journal of Clinical Oncology* (IF 32.95), 2020. 38: p. 44-44. DOI: 10.1200/JCO.2020.38.29_suppl.44

INVITED SPEAKER:

- Chan, B., Convenor welcome. Clinical Oncology Society of Australia Annual Scientific Meeting. Asia-Pacific Journal of Clinical Oncology (IF 2.01), 2020. 16(S8), Melbourne, November 2020 DOI: 10.1111/ajco.13496
- Chan, B., Demonstrating the power of QOOL at the individual patient level: QOOL dash - Tracking my Lung cancer MDT performance. Plenary – Clinical Oncology Society of Australia Annual Scientific Meeting. Asia-Pacific Journal of Clinical Oncology (IF 2.01), 2020. 16(S8), Melbourne, November 2020 DOI: 10.1111/ajco.13496
- ORAL ABSTRACT:
- Shelford, C., and B. A. Chan, Lessons learnt from a specialist oncology breast cancer nurse-led clinic (NLC) in a rural cancer centre. Oral presentation, 2020 Cancer Nurses Society of Australia, Annual Scientific Meeting, (Senior author)

POSTER PRESENTATIONS:

- Ahern, E., H. Gasper, N. Roberts, B.A. Chan, Z. Lwin, Psychosocial impacts of COVID-19 on oncology workforces: Metro versus regional Australia. 2020 American Society of Clinical Oncology (ASCO) Quality Care Symposium, San Diego (Co-author)
- Andelkovic, V., W. Xu, H. Gasper, B.A. Chan, K. O'Bryne, R. Ladwa, Evaluation of a virtual meeting platform for state-wide oncology education during the COVID-19 pandemic. 2020 Clinical Oncology Society of Australia Annual Scientific Meeting, Brisbane (Co-author)
- Mercurio, J., M. Cummins, N. Corsini, M. Eckert, B.A. Chan, L. Altus, G. Cehic, Improving the quality of care delivery during peptide receptor radionuclide therapy (PRRT) for patients with neuroendocrine neoplasms (NENs): Development and implementation of personal patient schedules (PPS) to streamline complex multidisciplinary care. 2020 Clinical Oncology Society of Australia Annual Scientific Meeting, Brisbane (Co-author)
- Middleton, R., W. Bernard, D. Lambe, T. Young, B.A. Chan, Development and implementation of a psychologist-led complex patient multidisciplinary team meeting (CP-MDTM) to address unmet psychosocial needs of patients with cancer: Experience from the Adem Crosby Cancer Centre. 2020 Clinical Oncology Society of Australia Annual Scientific Meeting, Brisbane (Senior-author)
- Roberts, N., E. Ahern, H. Gasper, B.A. Chan, Z. Lwin, Emotional impact of COVID-19 preparations on metro and regional cancer workforces in Queensland, Australia: "We are all in this together". 2020 American Society of Clinical Oncology (ASCO) Quality Care Symposium, San Diego (Co-author)
- Turner, C., J. Anderson, S. Zulkifli, J. Mitchell, N. Chen, H. Brand, A. Widders, G. Anderson, B.A. Chan, Real-world treatment patterns and survival outcomes for small cell lung cancer (SCLC): experience from the Sunshine Coast Hospital and Health Service (SCHHS). 2020 Clinical Oncology Society of Australia Annual Scientific Meeting, Brisbane (Senior author)
- Widders, A., K. Ringshaw, S. Chaille, J. Wilson, K. West, B.A. Chan, Improving the systemic management and delivery of oral cancer systemic therapies (OST) at a rural outreach cancer clinic: A quality improvement project from the Gympie day oncology unit. 2020 Clinical Oncology Society of Australia Annual Scientific Meeting, Brisbane (Senior-author)

Radiation Oncology

Research Contact:

Dr Myo Min

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Active Research Staff - Dr Myo Min, Dr Dinesh Vignarajah, Dr Nicole Buddle, Dr Marcel Knesl, Ms Katelyn Cahill, Mr David Willis, Dr Francis Gibbons

Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
7	2	1	Nil	\$19,118.00

Research Interests	Research Higher Degree Students
<ul style="list-style-type: none"> Functional imaging guided radiation therapy Brachytherapy 	<ul style="list-style-type: none"> Dr Nathan Hearn, PhD Student (Higher Degree by Research), University of Sunshine Coast Dr Daisy Atwell, PhD Student (Higher Degree by Research), University of Sunshine Coast Ms Katelyn Cahill, PhD Student (Higher Degree by Research), University of Sunshine Coast

Top Research Publications in 2020

- Atwell, D., J. Elks, K. Cahill, N. Hearn, D. Vignarajah, J. Lagopoulos, and M. Min, A Review of Modern Radiation Therapy Dose Escalation in Locally Advanced Head and Neck Cancer. *Clinical Oncology (IF 3.21)*, 2020. 32(5): p. 330-341 DOI: 10.1016/j.clon.2019.12.004
- Hearn, N., W. Bugg, A. Chan, D. Vignarajah, K. Cahill, D. Atwell, J. Lagopoulos, and M. Min, Manual and semi-automated delineation of locally advanced rectal cancer subvolumes with diffusion-weighted MRI. *The British Journal of Radiology (IF 2.19)*, 2020. 93(1114): p. 20200543 DOI: 10.1259/bjr.20200543
- Hearn, N., K. Cahill, D. Atwell, W. Bugg, A. Chan, D. Vignarajah, J. Lagopoulos, and M. Min, Quantitative Approaches to Locally Advanced Rectal Cancer GTV and Subvolume Contouring with Diffusion-Weighted MRI: Implications for MRI-Guided Boost Strategies. *International Journal of Radiation Oncology Biology Physics (IF 5.89)*, 2020. 108(3): p. e585 DOI: 10.1016/j.ijrobp.2020.07.1794

Internal Research Grants

Wishlist-SERTF Research Grant (\$19,118.79): Functional Imaging Guided Radiation Therapy using Diffusion-Weighted MRI; Myo Min

Pharmacy

Research Contact:

Paul Williams

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Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
20	12	8	\$25,900	\$114,335.90**

Research Interests	Research Higher Degree Students
<ul style="list-style-type: none"> Antimicrobial agents (PK/PD dosing in the critically ill, elastomeric devices, delabelling antibiotic allergies, sepsis collaborative, antimicrobial stewardship) Anticoagulation (fibrinolysis, Enoxaparin dosing and anti-Xa levels) Digital platforms (ieMR and automated medication supply) Colony stimulating factors to treat febrile neutropenia 	<ul style="list-style-type: none"> Lilian Gauld, PhD Candidate, Queensland University of Queensland; Colony stimulating factors to treat febrile neutropenia: What do we know and what should we be doing? Paul Williams, PhD Candidate, University of Queensland; Optimising care of critically ill patients through improved antibiotic dosing

External Research Grants

Pathology Queensland (\$25,900) over 2 years: Does guideline-based dosing of beta lactam antibiotics and vancomycin achieve target drug concentrations more than therapeutic drug monitoring-based dosing in critically ill patients (GUIDE trial); Paul Williams

**Internal Research Grants

SCHHS Study, Education, Research Trust Fund (SERTF) (\$20,000): Therapeutic Drug Monitoring of 24-hour beta-lactam antimicrobial infusions in elastomeric pump devices; Jessica Hambly

Wishlist Research Grant (\$39,823.90): PIMS Study: An investigation of the utility of microsampling versus traditional blood sampling for antibiotic pharmacokinetics in children; Paula Lister

Sunshine Coast Health Institute (SCHI) Seed Grant (\$35,000): Infectious Pathogens as Stroke Triggers - Optimising the Diagnosis, Treatment and Secondary Prevention of Infectious Causes of Stroke; Paul Williams

SCHHS Study, Education, Research Trust Fund (SERTF) (\$19,512): Does guideline-based dosing of beta lactam antibiotics and vancomycin achieve target drug concentrations more than therapeutic drug monitoring-based dosing in critically ill patients? (GUIDE trial); Paul Williams

Awards and special recognitions

Best Showcase of Quality Improvement – SCHHS Allied Health Forum 2020; Kate Bennett and Sarah Kingscote



Future Research Plans/Interests

- Continue with current research interest areas and expand our pharmacy practice research - i.e. benefits of specialist telehealth services, partnered prescribing, deprescribing, and qualitative assessment of medicines information to consumers

Top Research Publications in 2020

1. Craswell, A., K. Bennett, B. Dalgliesh, B. Morris-Smith, J. Hanson, T. Flynn, and M. Wallis, The impact of automated medicine dispensing units on nursing workflow: A cross-sectional study. *International Journal of Nursing Studies* (IF: 3.78), 2020. 111: p. 103773. DOI: 10.1016/j.ijnurstu.2020.103773
2. Imani, S., J.-W. Alffenaar, M.O. Cotta, K. Daveson, S. van Hal, C. Lau, D. Marriott, J. Penm, J.A. Roberts, A. Tabah, N. Trethewy, P. Williams, and I. Sandaradura, Therapeutic drug monitoring of commonly used anti-infective agents: A nationwide cross-sectional survey of Australian hospital practices. *International Journal of Antimicrobial Agents* (IF: 4.62), 2020. 56(6): p. 106180 DOI: 10.1016/j.ijantimicag.2020.106180
3. Williams, P., G. Beall, M.O. Cotta, and J.A. Roberts, Antimicrobial dosing in critical care: A pragmatic adult dosing nomogram. *International Journal of Antimicrobial Agents* (IF: 4.62), 2020. 55(2): p. 105837-105837 DOI: 10.1016/j.ijantimicag.2019.10.018

2020 Full Publication List

ARTICLES:

1. Crass, R.L., P. Williams, and J.A. Roberts, The challenge of quantifying and managing pharmacokinetic variability of beta-lactams in the critically ill. *Anaesthesia, Critical Care & Pain Medicine* (IF: 2.70), 2020. 39(1): p. 27-29 DOI: 10.1016/j.accpm.2019.12.008
2. Craswell, A., K. Bennett, B. Dalgliesh, B. Morris-Smith, J. Hanson, T. Flynn, and M. Wallis, The impact of automated medicine dispensing units on nursing workflow: A cross-sectional study. *International Journal of Nursing Studies* (IF: 3.78), 2020. 111: p. 103773. DOI: 10.1016/j.ijnurstu.2020.103773
3. Imani, S., J.-W. Alffenaar, M.O. Cotta, K. Daveson, S. van Hal, C. Lau, D. Marriott, J. Penm, J.A. Roberts, A. Tabah, N. Trethewy, P. Williams, and I. Sandaradura, Therapeutic drug monitoring of commonly used anti-infective agents: A nationwide cross-sectional survey of Australian hospital practices. *International Journal of Antimicrobial Agents* (IF: 4.62), 2020. 56(6): p. 106180 DOI: 10.1016/j.ijantimicag.2020.106180
4. Williams, P., G. Beall, M.O. Cotta, and J.A. Roberts, Antimicrobial dosing in critical care: A pragmatic adult dosing nomogram. *International Journal of Antimicrobial Agents* (IF: 4.62), 2020. 55(2): p. 105837-105837 DOI: 10.1016/j.ijantimicag.2019.10.018

EDITORIALS:

1. Crawford, A., and A. Wood, Benefits of pharmacy automation. *Pharmacy Growth, Research, Innovation and Training (Pharmacy GRIT), DrugScan*, 2020. 4(3) DOI:10.24080/grit.1291, 207
2. Crawford, A., and A. Wood, Developing and validation of a tailored pharmacy inventory management matrix using data segmentation. *Pharmacy Growth, Research, Innovation and Training (Pharmacy GRIT), DrugScan*, 2020. 4(3) DOI: 10.24080/grit.1291, 206
3. Crawford, A., and A. Wood, Does Universal Medication Schedule prescribing and dispensing have an impact on adherence?. *Pharmacy Growth, Research, Innovation and Training (Pharmacy GRIT), DrugScan*, 2020. 4(3) DOI:10.24080/grit.1291, 206-207

4. Hansen, M., Are we doing our part in drug-related podcasts. Pharmacy Growth, Research, Innovation and Training (Pharmacy GRIT), DrugScan, 2020. 4(3) DOI:10.24080/grit.1291, 207-208
5. Hansen, M., Exploring qualitative research in pharmacy education. Pharmacy Growth, Research, Innovation and Training (Pharmacy GRIT), DrugScan, 2020. 4(3) DOI:10.24080/grit.1291, 208
6. Wood, A., and A. Crawford, Efficiency of a trained pharmacy technician undertaking prescription accuracy checking. Pharmacy Growth, Research, Innovation and Training (Pharmacy GRIT), DrugScan, 2020. 4(1) DOI:10.24080/grit.1249, 61-62
7. Wood, A., and A. Crawford, Human factors and ergonomics with the pharmacy setting. Pharmacy Growth, Research, Innovation and Training (Pharmacy GRIT), DrugScan, 2020. 4(1) DOI:10.24080/grit.1249, 61-62
8. Wood, A., and A. Crawford, Student placements in dispensaries: about more than just dispensing. Pharmacy Growth, Research, Innovation and Training (Pharmacy GRIT), DrugScan, 2020. 4(1) DOI:10.24080/grit.1249, 61-62

PRESENTATIONS:

1. Bennett, K., and S. Kingscote, Penicillin allergy de-labelling at the front door: Pharmacists-led implementation at Sunshine Coast University Hospital, Allied Health Forum, SCHI Auditorium, December 2020
2. Bennett, K., and S. Kingscote, Penicillin allergy de-labelling at the front door: Pharmacists-led implementation at Sunshine Coast University Hospital, 2020 ED Innovation Showcase Presentation, SCHI Auditorium, December 2020
3. Graham, K., Evaluation of the team-based pharmacy model for General Medical inpatients at the Sunshine Coast University Hospital and Nambour General Hospital, Allied Health Forum, SCHI Auditorium, December 2020
4. Hansen, M., Introduction of a Pharmacy Residency Program at the Sunshine Coast University Hospital, Allied Health Forum, SCHI Auditorium, December 2020
5. Williams, P., Different Approaches to Antimicrobial dose optimisation. Antimicrobial Therapeutic Drug Monitoring Workshop, (Virtual Seminar – delegates from >25 Countries), November 2020
6. Williams, P., Dosing Software Practical Application: ID-ODS case studies: Vancomycin and Meropenem, (Virtual Seminar – delegates from >25 Countries), November 2020
7. Williams, P., Wishlist Grant Writing presentation and panel discussion, SCHI Auditorium, July 2020

POSTERS:

1. Gauld, L., G. Kyle, A. Poudel, L. Nissen, Colony stimulating factors to treat febrile neutropenia: What do we know and what should we be doing? 2020 British Oncology Pharmacy Association (BUPA) Virtual Symposium, October 2020

Respiratory & Sleep Medicine

Research Contact:

Dr Michael Bint Michael.bint@health.qld.au

Dr Timothy Baird timothy.baird@health.qld.gov.au

Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
10	10	2	\$415,000*	\$20,000

Research Interests	*External Research Grants
<ul style="list-style-type: none"> Lung cancer and genome sequencing Lung cancer microbiome Next-generation diagnostics in pulmonary infection Management of malignant pleural effusion Pulmonary Hypertension (Australian Registry Site) Pulmonary embolism - detection, treatment and complications CPAP for OSA in pregnancy Sleep-related hypoventilation Clinical Trials 	<ul style="list-style-type: none"> Advance Queensland Industry Research Fellowship (\$300,000): Next-generation diagnostics for chronic lung disease infections; Timothy Baird & Michael Bint, 2019-2021 Advance Queensland Industry Research Fellowship (\$80,000): CoViBac Study: Host response and secondary infection in COVID-19; Timothy Baird, 2020-2022 Sunshine Coast Health Institute (SCHI) Collaborative Seed Grant (\$35,000): Lung Cancer Microbiome using Next Generation Diagnostics; Timothy Baird & Michael Bint

****Internal Research**

Wishlist/SERTF Collaborative Research Grant (\$20,000): Using metagenomics to improve diagnostics of chronic obstructive pulmonary disease (COPD) pulmonary infections; Timothy Baird, 2019-2021

Future Research Plans/Interests

- Bronchiectasis (Australian Registry Site)
- Non-tuberculous mycobacteria: Improved treatments
- Lung cancer staging: Mediastinal sampling and 18-Fluorodeoxyglucose positron emission tomography (FDG-PET)
- Ultraslim bronchoscopy: Improved lung cancer diagnostics

Top Research Publications in 2020

1. Brown, S.G.A., E.L. Ball, K. Perrin, S.E. Asha, I. Braithwaite, D. Egerton-Warburton, P.G. Jones, G. Keijzers, F.B. Kinnear, B.C.H. Kwan, K.V. Lam, Y.C.G. Lee, M. Nowitz, C.A. Read, G. Simpson, J.A. Smith, Q.A. Summers, M. Weatherall, and R. Beasley, Conservative versus Interventional Treatment for Spontaneous Pneumothorax. *The New England Journal of Medicine* (IF 74.69), 2020. 382(5): p. 405-415. DOI: 10.1056/NEJMoa1910775 [PSP Investigators – Michael Bint, Ogilvie Thom]
2. Pattison, A. and K. Yasufuku, Convex-Probe Ultrasonography in Flexible Bronchoscopy, in *Flexible Bronchoscopy*, 2020. p. 111-126. DOI: 10.1002/9781119389231.ch8
3. Kanwar, M.K., M. Gomberg-Maitland, M. Hoeper, C. Pausch, D. Pittrow, G. Strange, J.J. Anderson, C. Zhao, J.V. Scott, M.J. Druzdzal, J. Kraisangka, L. Lohmueller, J. Antaki, and R.L. Benza, Risk stratification in pulmonary arterial hypertension using Bayesian analysis. *The European Respiratory Journal* (IF 12.33), 2020. 56(2): 2000008 DOI: 10.1183/13993003.00008-2020
4. Samaranayake, C.B., J. Anderson, C. McCabe, S.F. Zahir, J. Upham, and G. Keir, Direct oral anticoagulants for cancer associated venous thromboembolisms: a systematic review and network meta-analysis. *Internal Medicine Journal* (IF: 1.67), 2020. DOI: 10.1111/imj.15049
5. Pattison, A., L. Jeagal, K. Yasufuku, A. Pierre, L. Donahoe, J. Yeung, G. Darling, M. Cypel, M. De Perrot, T. Waddell, S. Keshavjee, and K. Czarnecka-Kujawa, The impact of concordance with a lung cancer diagnosis pathway guideline on treatment access in patients with stage IV lung cancer. *Journal of Thoracic Disease* (IF: 2.36), 2020. 12(8): p. 4327-4337. DOI: 10.21037/jtd-20-157

2020 Full Publication List

ARTICLES:

1. Anderson, J., T. Hoang, K. Hay, and G. Tay, Evaluation of inpatient oxygen therapy in hypercapnic chronic obstructive pulmonary disease. *Internal Medicine Journal*, 2021. 51(5): p. 654-659. DOI: 10.1111/imj.15070
2. Brown, S.G.A., E.L. Ball, K. Perrin, S.E. Asha, I. Braithwaite, D. Egerton-Warburton, P.G. Jones, G. Keijzers, F.B. Kinnear, B.C.H. Kwan, K.V. Lam, Y.C.G. Lee, M. Nowitz, C.A. Read, G. Simpson, J.A. Smith, Q.A. Summers, M. Weatherall, and R. Beasley, Conservative versus Interventional Treatment for Spontaneous Pneumothorax. *The New England Journal of Medicine* (IF: 74.69), 2020. 382(5): p. 405-415. DOI: 10.1056/NEJMoa1910775 [PSP Investigators – Michael Bint, Ogilvie Thom]
3. Kanwar, M.K., M. Gomberg-Maitland, M. Hoeper, C. Pausch, D. Pittrow, G. Strange, J.J. Anderson, C. Zhao, J.V. Scott, M.J. Druzdzal, J. Kraisangka, L. Lohmueller, J. Antaki, and R.L. Benza, Risk stratification in pulmonary arterial hypertension using Bayesian analysis. *The European Respiratory Journal* (IF: 12.33), 2020. 56(2). DOI: 10.1183/13993003.00008-2020
4. Pattison, A., L. Jeagal, K. Yasufuku, A. Pierre, L. Donahoe, J. Yeung, G. Darling, M. Cypel, M. De Perrot, T. Waddell, S. Keshavjee, and K. Czarnecka-Kujawa, The impact of concordance with a lung cancer diagnosis pathway guideline on treatment access in patients with stage IV lung cancer. *Journal of Thoracic Disease* (IF: 2.36), 2020. 12(8): p. 4327-4337. DOI: 10.21037/jtd-20-157
5. Pattison, A. and K. Yasufuku, Convex-Probe Ultrasonography in Flexible Bronchoscopy, in *Flexible Bronchoscopy*. 2020. p. 111-126. DOI: 10.1002/9781119389231.ch8
6. Samaranayake, C.B., J. Anderson, C. McCabe, S.F. Zahir, J. Upham, and G. Keir, Direct oral anticoagulants for cancer associated venous thromboembolisms: a systematic review and network meta-analysis. *Internal Medicine Journal* (IF: 6.87), 2020. DOI: 10.1111/imj.15049
7. Samaranayake, C.B., C. Wright, S. Erigadoo, M. Azzopardi, M. Putt, and M. Bint, A Randomized Controlled Trial on Optimal Sampling Sequence in Radial Guide Sheath Endobronchial Ultrasound Lung Biopsy. *Journal of Bronchology & Interventional Pulmonology* (IF: 1.16), 2020. 27(3): p. 205-211. DOI: 10.1097/lbr.0000000000000651
8. Walczak, A., K. Wilks, R. Shakhovskoy, T. Baird, S. Schlebusch, C. Taylor, D. Reid, and K. Choong, COVID-19 in a complex obstetric patient with cystic fibrosis. *Infection, Disease & Health* (IF: 2.27), 2020. 25(4): p. 239-241. DOI: 10.1016/j.idh.2020.07.002

CONFERENCE ABSTRACTS:

1. Cheng, S., et al., Clinical value of concurrent arterial blood gas and transcutaneous carbon dioxide monitoring during treatment sleep study: a real-world experience. Australasian Sleep Association, Advanced Trainees' oral presentations 2020.

Vascular Surgery

Research Contact:

Pankaj Jha

Pankaj.jha@health.qld.gov.au

Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
5	2	-	-	-

Research Interests	Future Research Plans/Interests
<ul style="list-style-type: none"> Effect of exercise on abdominal aortic aneurysms Effect of micronutrients on aneurysmal wall stiffness Clinical assessment of peripheral arterial disease 	<ul style="list-style-type: none"> Multinational randomised controlled trial on varicose veins surgery Multinational randomised controlled trial on complex abdominal aneurysm surgery Comparing outcomes of ultrasound and surgical biopsy in giant cell arteritis (GCA) Effect of exercise on peripheral vascular disease after intervention

Research Publications in 2020
<ol style="list-style-type: none"> Meital, L.T., M.T. Windsor, A.E. Maynard, K. Schulze, R. Magee, J. O'Donnell, P. Jha, C.Y. Meital, M. Perissiou, S. Coverdale, J. Golledge, A.V. Kuballa, T.G. Bailey, C.D. Askew, and F.D. Russell, Endotoxin Tolerance in Abdominal Aortic Aneurysm Macrophages, In Vitro: A Case-Control Study. <i>Antioxidants (Basel)</i> (IF: 4.52), 2020. 9(9): p. 896. DOI: 10.3390/antiox9090896 Meital, L.T., K. Schulze, R. Magee, J. O'Donnell, P. Jha, C.Y. Meital, R. Donkin, T.G. Bailey, C.D. Askew, and F.D. Russell, Long Chain Omega-3 Polyunsaturated Fatty Acids Improve Vascular Stiffness in Abdominal Aortic Aneurysm: A Randomized Controlled Trial. <i>Nutrients</i> (IF: 4.54), 2020. 13(1). DOI: https://doi.org/10.3390/nu13010138

Women's and Children's Service Group

Research Contact:

Rachael Nugent (O&G): Rachael.Nugent@health.qld.gov.au

Clare Thomas (Paediatrics): Clare.Thomas@health.qld.gov.au

Active Research Staff	Article Publications	Conference Publications or Presentations	External Research Funding Involvement	Wishlist/SERTF Research Grants
35	11	6	\$313,794.75*	\$242,348.24**

Research Interests	Research Higher Degree Students
<p>Maternal health</p> <ul style="list-style-type: none"> Promotion of normal birth Management of complexities of pregnancy, especially Gestational diabetes and obesity Postpartum haemorrhage Working with Aboriginal and Torres Strait Islander women to promote perinatal wellbeing Intrapartum intravenous access and therapy Mindfulness in pregnancy Use of electronic records in maternity settings <p>Children's health</p> <ul style="list-style-type: none"> Paediatric inter-hospital transfer Fetal Alcohol Spectrum Disorders and management Sudden Unexpected Death in Infancy Multi-disciplinary models of care Personal protective equipment (PPE) design in Paediatrics Parental engagement in single family sessions (allied health) Prediction of outcome in at risk preterm infants 	<ul style="list-style-type: none"> Dr Rachael Nugent (PhD) Amber Jenkins (PhD) Josie Greaves (MSc (research)) Deyna Hopkinson (PhD) Roni Cole (PhD) Rebecca Caesar (PhD) Julie Creen (PhD) Dr Clare Thomas (MPhil) Michelle Elks (PhD)

*External Research Grants

National Health and Medical Research Council Research Grant (\$40,000 total across a number of sites): Supporting Indigenous Smokers To Assist Quitting (SISTAQUIT); Kay Bugler

Health Practitioner Research Scheme (\$29,954): Parent and child experience of transdisciplinary advanced allied health practices: Child and adolescent developmental and behavioural Outpatient Clinics; Julie Creen

Office of the Chief Nursing and Midwifery Officer – Administered through USC (\$40,000): Strength with Immersion Model (SwIM); Lauren Kearney, Deyna Hopkinson, Lisa Davenport

NURTURE Seed Grant (\$10,000): Peripheral Intravenous Catheter Management In Childbirth (PICMIC); Lauren Kearney, Amanda Ullman, Alison Craswell, Debbie Massey, Nicole Marsh, Guy Godsall, Rachael Nugent

National Health and Medical Research Council Research Grant (\$25,000): A tiered approach to the diagnosis of Fetal Alcohol Spectrum Disorder (FASD) in remote Indigenous primary care settings; Ianthe Mills and Clare Thomas

Children's Hospital Foundation 202 Research Stimulus Grant (\$98,253.75): Evaluation of a paediatric inter-facility transfer initiative for acutely unwell children in regional Queensland: Standardised Workflow for Inter-Facility Transfer of Kids [SWIFTKids]; Clare Thomas

Emergency Medicine Foundation Research Grant (\$70,587): PaNURAMA Inter-facility Transfer Tool Validation: A validation study of the Paediatric Non-Urgent, Risk Assessment, Management and nurse escort Assessment (PaNURAMA) Tool for safe children's inter-facility Transfer; Michelle Davison

**Internal Research Grants

Wishlist-SERTF Research Grant (\$10,000): Advanced Allied Health Practice: Parental Engagement and Motivation in managing children with Developmental and Behavioural difficulties; Julie Creen

Wishlist-SERTF Research Grant (\$50,000): Reducing emergency caesarean birth for fetal distress in women with small or poorly grown infants using Sildenafil Citrate – RidStress2RCT; Gregory Duncombe

Wishlist-SERTF Research Grant (\$9,397.16): Birawan midwifery service: use of Yarning Circles to understand Aboriginal women's experience of maternity services at SCUH; Josie Greaves

Wishlist Research Grant (\$19,992.43): Bedside Ultrasound Conducted in Kids with distal upper Limb fractures in the Emergency Department: A randomised controlled trial; Michelle Davidson

Wishlist Research Grant (\$19,723.89): Paediatric education and assessment for non-urgent transfers (PEANUT): Evaluation of the PEANUT project; Clare Thomas

SCHHS Study, Education, Research Trust Fund (SERTF) (\$19,981.29): CPAP for OSA and Outcomes in Pregnancy (COOP): A Pilot Project; Rebekah Shakhovskoy

SCHHS Study, Education, Research Trust Fund (SERTF) (\$9,822.99): Mindfulness-Based Group interventions for mental health concerns in the antenatal period: A mixed methods study; Amber Jenkins

SCHHS Study, Education, Research Trust Fund (SERTF) (\$49,881.48): Promoting and facilitating spontaneous vaginal birth in nulliparous women at full term: Systematic review, predictive cohort study and development of an evidence-based bundle of care; Lauren Kearney

Research Higher Degree Scholarship (\$33,549): Early prediction of typical outcome and mild developmental delay for prioritisation of service delivery for very preterm and very low birth weight infants; Rebecca Caesar

Wishlist Early Career Researcher (\$20,000): Thromboelastography in Obstetrics; Guy Godsall, Lauren Kearney, Rachel Nugent

Awards and special recognitions

2020 Occupational Therapy Australia PhD Student of the Year, USC; Julie Creen

Future Research Plans/Interests

- Enhanced recovery after Caesarean Section
- Choosing wisely quality improvement and research initiatives
- Neonatal experience

Top Research Publications in 2020

1. Caesar, R., P.B. Colditz, G. Cioni, and R.N. Boyd, Clinical tools used in young infants born very preterm to predict motor and cognitive delay (not cerebral palsy): a systematic review. *Developmental Medicine and Child Neurology* (IF: 4.40), 2021. 63(4): p. 387-395. [Epub 2020 Nov 13] DOI: 10.1111/dmcn.14730
2. Cole, R., J. Young, L. Kearney, and J.M.D. Thompson, Infant care practices and parent uptake of safe sleep messages: a cross-sectional survey in Queensland, Australia. *BMC Pediatrics* (IF: 1.90), 2020. 20(1): p. 27. DOI: 10.1186/s12887-020-1917-5
3. Creen, J., A. Kennedy-Behr, K. Gee, L. Wilks, and M. Verdonck, Reducing time between referral and diagnosis in paediatric outpatient neurodevelopmental and behavioural clinics. *Journal of Paediatrics and Child Health* (IF: 1.71), 2021. 57(1): p. 126-131. [Epub 2020 Sep 12] DOI: 10.1111/jpc.15156
4. Styles, C., L. Kearney, and K. George, Implementation and upscaling of midwifery continuity of care: the experience of midwives and obstetricians. *Woman and Birth* (IF: 2.89), 2020. 33(4): p. 343-351. DOI: 10.1016/j.wombi.2019.08.008

2020 Full Publication List

ARTICLES:

1. Caesar, R., P.B. Colditz, G. Cioni, and R.N. Boyd, Clinical tools used in young infants born very preterm to predict motor and cognitive delay (not cerebral palsy): a systematic review. *Developmental Medicine and Child Neurology* (IF: 4.40), 2021. 63(4): p. 387-395. [Epub 2020 Nov 13] DOI: 10.1111/dmcn.14730
2. Cole, R., J. Young, L. Kearney, and J.M.D. Thompson, Infant care practices and parent uptake of safe sleep messages: a cross-sectional survey in Queensland, Australia. *BMC Pediatrics* (IF: 1.90), 2020. 20(1): p. 27. DOI: 10.1186/s12887-020-1917-5
3. Cole, R., J. Young, L. Kearney, and J.M.D. Thompson, Priority setting: Consensus for Australia's infant safe sleeping public health promotion programme. *Journal of Paediatrics and Child Health* (IF: 1.71), 2021. 57(2): p. 219-226. [Epub 2020 Sep 12] DOI: 10.1111/jpc.15178
4. Creen, J., A. Kennedy-Behr, K. Gee, L. Wilks, and M. Verdonck, Reducing time between referral and diagnosis in paediatric outpatient neurodevelopmental and behavioural clinics. *Journal of Paediatrics and Child Health* (IF: 1.71), 2021. 57(1): p. 126-131. [Epub 2020 Sep 12] DOI: 10.1111/jpc.15156
5. Esbati, A., J. Taylor, A. Henderson, M. Barnes, and L. Kearney, Perspectives about the baby friendly hospital/health initiative in Australia: an online survey. *International Breastfeeding Journal* (IF: 3.31), 2020. 15(1): p. 23. DOI: 10.1186/s13006-020-00266-z
6. Nugent R. and E. Weaver, Training and simulation: Labour ward emergencies. *O & G Magazine*, 2020. 22(3). Available online: <https://www.ogmagazine.org.au/22/3-22/training-and-simulation-labour-ward-emergencies/>
7. Peberdy, L., J. Young, D. Massey, and L. Kearney, Australian maternity healthcare professionals' knowledge, attitudes and practices relevant to cord blood banking, donation and clamp timing: A cross-sectional survey. *Women and Birth* (IF: 2.89), 2020. S1871-5192(20): p. 30378-4 DOI: 10.1016/j.wombi.2020.11.005 (Online ahead of print)
8. Peberdy, L., J. Young, D. Massey, and L. Kearney, Maternity health professionals' perspectives of cord clamp timing, cord blood banking and cord blood donation: a qualitative study. *BMC Pregnancy and Childbirth* (IF: 2.94), 2020. 20(1): p. 410. DOI: 10.1186/s12884-020-03102-8
9. Ryder, R., M. Kynn, L. Kearney, and E. Weaver, Resilience and workplace stress in Australian and New Zealand Obstetrics and Gynaecology trainees: A cross sectional survey. *Australian and New Zealand Journal of Obstetrics and Gynaecology* (IF: 1.43), 2020. 60(2): p. 225-230. DOI: 10.1111/ajo.13098
10. Shipstone, R.A., J. Young, L. Kearney, and J.M.D. Thompson, Applying a Social Exclusion Framework to Explore the Relationship Between Sudden Unexpected Deaths in Infancy (SUDI) and Social Vulnerability. *Frontiers in Public Health* (IF: 3.02), 2020. 8: p. 563573. DOI: 10.3389/fpubh.2020.563573
11. Shipstone, R.A., J. Young, L. Kearney, and J.M.D. Thompson, Prevalence of risk factors for sudden infant death among Indigenous and non-Indigenous people in Australia. *Acta Paediatrica* (IF: 1.44), 2020. 109(12): p. 2614-2626. DOI: 10.1111/apa.15274
12. Styles, C., L. Kearney, and K. George, Implementation and upscaling of midwifery continuity of care: the experience of midwives and obstetricians. *Woman and Birth* (IF: 2.89), 2020. 33(4): p. 343-351. DOI: 10.1016/j.wombi.2019.08.008
13. Tennett, D., L. Kearney, and M. Kynn, Access and outcomes of general practitioner obstetrician (rural generalist) supported birthing units in Queensland. *Australian Journal of Rural Health* (IF: 1.14), 2020. 28(1): p. 42-50. DOI: 10.1111/ajr.12593
14. Watkins, L., L. Kearney, M. Kynn, C. Hodgman, and R. Nugent, Implementation of a guideline of early administration of tranexamic acid for severe primary postpartum haemorrhage: a retrospective comparative study. *Australian and New Zealand Journal of Obstetrics and Gynaecology* (IF: 1.43), 2021. 61(3): p. 354-359. [Epub 2020 Dec 22] DOI: 10.1111/ajo.13282



Research publications 2019

Bold text = SCHHS Affiliation

Underlined = SCHI Partner Affiliation

IF = Journal Impact Factor

ARTICLES

1. Ahern, E., H. Gasper, **B. Chan**, N. Roberts, B. Hughes, D. Wyld, G. Kennedy, M. Eastgate, and Z. Lwin, *Psychosocial impacts of COVID-19 on oncology workforces: Metro versus regional Australia*. Journal of Clinical Oncology, 2020. **38**: p. 111-111.
2. Andelkovic, V., W. Xu, H. Gasper, N. Oliveira, K. Middleton, S. Feng, M. Dzienis, E. Ahern, J. Goh, D. Thaker, N. McCarthy, **B. Chan**, K. O'Byrne, and R. Ladwa, *Evaluation of a virtual meeting platform for state-wide oncology education during the COVID-19 pandemic*. Asia-Pacific Journal of Clinical Oncology, 2020. **16**(SUPPL 8): p. 158.
3. **Anderson, J., T. Hoang**, K. Hay, and G. Tay, *Evaluation of inpatient oxygen therapy in hypercapnic chronic obstructive pulmonary disease (COPD)*. Internal Medicine Journal, 2020. **51**(5): p. 654-659.
4. **Anderson, J.**, M. Lavender, D. Celermajer, N. Collins, C. Corrigan, N. Dwyer, J. Feenstra, M. Horrigan, D. Keating, E. Kotlyar, T. McWilliams, B. Rhodes, P. Steele, V. Thakkar, T. Williams, H. Whitford, K. Whyte, R. Weintraub, J. Wrobel, A. Keogh, G. Strange, and E. Lau, *Comparison of pulmonary arterial hypertension risk assessment models using the pulmonary hypertension society of Australia and New Zealand registry cohort*. Respiriology, 2020. **25**(S1): p. 191-192.
5. **Anderson, J.**, M. Lavender, D. Celermajer, N. Collins, C. Corrigan, N. Dwyer, J.F. Feenstra, M. Horrigan, D.T. Keating, E. Kotlyar, T.J. McWilliams, B. Rhodes, P. Steele, V. Thakkar, T.J. Williams, H.M. Whitford, K.F. Whyte, W. Robert, J. Wrobel, A. Keogh, G. Strange, and E. Lau, *Comparison of pulmonary arterial hypertension risk assessment models using the pulmonary hypertension society of Australia and New Zealand registry cohort*. American Journal of Respiratory and Critical Care Medicine, 2020. **201**(A2918).
6. **Anderson, J.**, M. Lavender, E. Lau, D. Celermajer, N. Collins, N. Dwyer, J. Feenstra, M. Horrigan, D. Keating, A. Keogh, E. Kotlyar, B. Ng, S. Proudman, P. Steele, V. Thakkar, R. Weintraub, H. Whitford, T. Williams, J. Wrobel, and G. Strange, *Pharmacological Treatment of Pulmonary Arterial Hypertension in Australia: Current Trends and Challenges*. Heart, Lung & Circulation, 2020. **29**(10): p. 1459-1468.
7. **Anderson, J.**, S. Ratwatte, G. Strange, C. Corrigan, N. Collins, D. Celermajer, N. Dwyer, J. Feenstra, D. Keating, E. Kotlyar, M. Lavender, H. Whitford, K. Whyte, T. Williams, J. Wrobel, A. Keogh, and E. Lau, *Pulmonary arterial hypertension with below threshold pulmonary vascular resistance: Patient characteristics, treatment response and long-term outcomes*. Respiriology, 2020. **25**: p. 108-108.
8. **Anderson, J.J.**, E.M. Lau, M. Lavender, R. Benza, D.S. Celermajer, N. Collins, C. Corrigan, N. Dwyer, J. Feenstra, M. Horrigan, D. Keating, F. Kermeen, E. Kotlyar, T. McWilliams, B. Rhodes, P. Steele, V. Thakkar, T. Williams, H. Whitford, K. Whyte, R. Weintraub, J.P. Wrobel, A. Keogh, and G. Strange, *Retrospective Validation of the REVEAL 2.0 Risk Score with the Australian and New Zealand Pulmonary Hypertension Registry Cohort*. Chest, 2020. **157**(1): p. 162-172.
9. Andrew, N.E., M.F. Kilkenny, V. Sundararajan, J. Kim, S.G. Faux, A.G. Thrift, T. Johnston, **R. Grimley**, M. Gattellari, J.M. Katzenellenbogen, H.M. Dewey, N.A. Lannin, C.S. Anderson, and D.A. Cadilhac,

Hospital Presentations in Long-Term Survivors of Stroke: Causes and Associated Factors in a Linked Data Study. Stroke, 2020. **51**(12): p. 3673-3680.

10. Angus, D.C. et. al., (50+ authors), and Writing Committee for the REMAP-CAP Investigators (including SCHHS contributors – **P. Garrett, L. Murray, L. Forbes, J. Brailsford, and T. Maguire**), *Effect of Hydrocortisone on Mortality and Organ Support in Patients with Severe COVID-19: The REMAP-CAP COVID-19 Corticosteroid Domain Randomized Clinical Trial.* Jama, 2020. **324**(13): p. 1317-1329.
11. Appadurai, V., N. D’Elia, D. Chang, D. Holland, and **T. Stanton**, *394 Prognostic Value of Global Longitudinal Strain for Individuals with Primary Severe Mitral Regurgitation Undergoing Mitral Valve Surgery: a Systematic Review and Meta-analysis.* Heart Lung and Circulation, 2020. **29**: p. S215-S216.
12. Arasaratnam, K., A. Camuglia, A. Lo, **D. Holland**, K. Guppy-Coles, G. Whalley, L. Thomas, J. Atherton, and S. Prasad, *281 Accuracy of the E/e’ Ratio as a Measure of Left Ventricular Filling Pressures in Patients with Non ST-Elevation Myocardial Infarction.* Heart Lung and Circulation, 2020. **29**(S2): p. S159.
13. **Atwell, D.**, J. Elks, **K. Cahill, N. Hearn, D. Vignarajah**, J. Lagopoulos, and **M. Min**, *A Review of Modern Radiation Therapy Dose Escalation in Locally Advanced Head and Neck Cancer.* Clinical Oncology, 2020. **32**(5): p. 330-341.
14. Badve, S.V., E.M. Pascoe, A. Tiku, N. Boudville, F.G. Brown, A. Cass, P. Clarke, N. Dalbeth, R.O. Day, J.R. de Zoysa, B. Douglas, R. Faull, D.C. Harris, C.M. Hawley, G.R.D. Jones, J. Kanellis, S.C. Palmer, V. Perkovic, G.K. Rangan, D. Reidlinger, L. Robison, R.J. Walker, G. Walters, and D.W. Johnson, and CKD-FIX Study Investigators (including SCHHS contributors - **A. Pollock, R. Krishnasamy**), *Effects of Allopurinol on the Progression of Chronic Kidney Disease.* New England Journal of Medicine, 2020. **382**(26): p. 2504-2513.
15. Bagshaw, S.M., R. Wald, N.K.J. Adhikari, R. Bellomo, B.R. da Costa, D. Dreyfuss, B. Du, M.P. Gallagher, S. Gaudry, E.A. Hoste, F. Lamontagne, M. Joannidis, G. Landoni, K.D. Liu, D.F. McAuley, S.P. McGuinness, J.A. Neyra, A.D. Nichol, M. Ostermann, P.M. Palevsky, V. Pettilä, J.P. Quenot, H. Qiu, B. Rochweg, A.G. Schneider, O.M. Smith, F. Thomé, K.E. Thorpe, S. Vaara, M. Weir, A.Y. Wang, P. Young, and A. Zarbock, and STARRT-AKI Investigators; Canadian Critical Care Trials Group; Australian and New Zealand Intensive Care Society Clinical Trials Group; United Kingdom Critical Care Research Group; Canadian Nephrology Trials Network; Irish Critical Care Trials Group, (including SCHHS contributors – **V. Campbell, D. Gutierrez, J. Brailsford, L. Forbes, L. Murray, and T. Maguire**), *Timing of Initiation of Renal-Replacement Therapy in Acute Kidney Injury.* New England Journal of Medicine, 2020. **383**(3): p. 240-251.
16. Barraclough, A., J. England, J. Wight, G. Hapgood, J. Conn, M. Gilbertson, B. Shaw, M. Bishton, M. Saeed, G. Chong, S.H. Wai, M. Ku, H.P. Lee, K. Fleming, C. Tam, G. Douglas, C.Y. Cheah, Z.Y. Ng, T. Rolfe, A.K. Mills, N. Hamad, H. Cashman, M. Gleeson, **M. Narayana**, D. Villa, and E. Hawkes, *Patients with grade 3b follicular lymphoma experience superior outcomes compared with diffuse large cell lymphoma, but show a continuous pattern of relapse.* HemaSphere, 2020. **4**: p. 546-547.
17. **Beaton, T.J., D. Gillis, K. Morwood, and M. Bint**, *Granulomatous lymphocytic interstitial lung disease: limiting immunosuppressive therapy-a single-centre experience.* Respirology Case Reports, 2020. **8**(5): p. e00565.
18. **Bilenki, J. M.**, and S. Platt, *Sural nerve schwannoma: A case report.* Foot (Edinb) (IF: 1.32), 2020. **45**: p. 101746.
19. Bittner VA, Szarek M, Aylward PE, Bhatt DL, Diaz R, Edelberg JM, Fras Z, Goodman SG, Halvorsen S, Hanotin C, Harrington RA, Jukema JW, Loizeau V, Moriarty PM, Moryusef A, Pordy R, Roe MT, Sinnaeve P, Tsimikas S, Vogel R, White HD, Zahger D, Zeiher AM, Steg PG, Schwartz GG; **ODYSSEY OUTCOMES Committees and Investigators** [SCHHS members], *Effect of Alirocumab on Lipoprotein(a) and Cardiovascular Risk After Acute Coronary Syndrome.* Journal of the American College of Cardiology, 2020. **75**(2): p. 133-144.

20. Boyd, D. and **L. White**, *Marginal gains from a lumbar erector spinae plane block for clinical benefit: A case study*. Trends in Anaesthesia and Critical Care, 2020. **35**(6): p. 49-50.
21. Brain, D., **J. Mitchell**, and **J. O’Beirne**, *Cost-effectiveness analysis of an outreach model of Hepatitis C Virus (HCV) assessment to facilitate HCV treatment in primary care*. PloS One, 2020. **15**(6): p. e0234577.
22. Brain, D., **J. O’Beirne**, I.J. Hickman, E.E. Powell, P.C. Valery, S. Kularatna, R. Tulleners, A. Farrington, L. Horsfall, and A. Barnett, *Protocol for a randomised trial testing a community fibrosis assessment service for patients with suspected non-alcoholic fatty liver disease: LOCAL assessment and triage evaluation of non-alcoholic fatty liver disease (LOCATE-NAFLD)*. BMC Health Services Research, 2020. **20**(1): p. 335.
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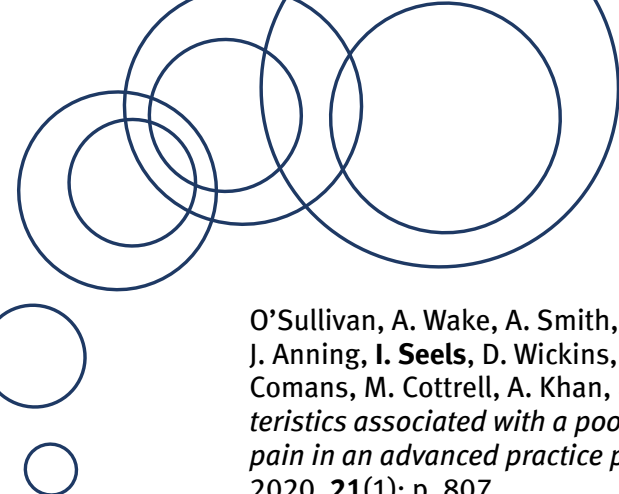
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5. **Hansen, M.**, *Exploring qualitative research in pharmacy education*. Pharmacy Growth, Research, Innovation and Training (Pharmacy GRIT), DrugScan, 2020. **4**(3): p. 208.
6. **Wood, A.**, and A. Crawford, *Efficiency of a trained pharmacy technician undertaking prescription accuracy checking*. Pharmacy Growth, Research, Innovation and Training (Pharmacy GRIT), DrugScan, 2020. **4**(1): p. 61-62.
7. **Wood, A.**, and A. Crawford, *Human factors and ergonomics with the pharmacy setting*. Pharmacy Growth, Research, Innovation and Training (Pharmacy GRIT), DrugScan, 2020. **4**(1): p. 61-62.
8. **Wood, A.**, and A. Crawford, *Student placements in dispensaries: about more than just dispensing*. Pharmacy Growth, Research, Innovation and Training (Pharmacy GRIT), DrugScan, 2020. **4**(1): p. 61-62.

CONFERENCE ABSTRACTS

1. **Anstey, C.**, *Measurement of citrate concentration in human biofluids using ultraviolet spectrophotometry: Modification of a commercial two-step enzymatic kit*. Anaesthesia and Intensive Care, 2020. **48**(2 SUPPL): p. 9.
2. **Anstey, C.**, *Plasma citrate concentration and its correlation with total to ionised calcium ratio in patients receiving RCA during CVVHDF*. Anaesthesia and Intensive Care, 2020. **48**(2 SUPPL): p. 10.
3. **Byrnes, K.** and T. Kairn, *Comparison and verification of multiple radiotherapy TPS in modelling radiation transport through a metal spine implant in a water equivalent phantom*. Physical and Engineering Sciences in Medicine, 2020. **43**: p. 377-378.
4. **Caesar, R.**, *Systematic review of clinical tools used \leq 6 months to predict motor and cognitive delay in very preterm infants*, American Academy of Cerebral Palsy Conference, September 23-26, 2020, New Orleans, USA.
5. **Caesar, R.**, P. Colditz, G. Cioni, and R. Boyd, *Systematic Review of clinical tools used \leq 6 months to predict motor and cognitive delay in very preterm infants at 24 months corrected age - Poster* Crawl with Past Presidents, American Academy of Cerebral Palsy and Developmental Medicine, Virtual meeting held live, September 24th, 2020.
6. Carrick, D., **M. Boyd**, and E. O'Mahoney, *Is administered activity the most appropriate diagnostic reference level in nuclear medicine?* Physical and Engineering Sciences in Medicine, 2020. **43**: p. 354.
7. **Chen, C.-Y.**, E. Davis, **L. White**, and **D. Patrick**, *Tofacitinib-induced remission of infliximab-refractory acute severe ulcerative colitis: A case report*. *IBD Clinical*, Journal of Gastroenterology and Hepatology, Australia (IF 2.69), 2020. **35**: p. 108-157.
8. **Cheng, S.**, et. al., *Clinical value of concurrent arterial blood gas and transcutaneous carbon dioxide monitoring during treatment sleep study: a real-world experience*. Australasian Sleep Association, Advanced Trainees' oral presentations 2020.
9. De Souza, L., **N. Gray**, **J. Waugh**, and **R. Krishnasamy**, *Complimentary and alternative medicine use in kidney transplant recipients*. Nephrology (IF: 1.91), 2020. **25**: p. 77-77.
10. Eqbal, A., T. Wickremeratne, S. Turner, S. Higgins, A. Sloss, **J. Mitchell**, and **J. O'Beirne**. *Unsedated ultrathin endoscopy for variceal surveillance in the outpatient setting – evidence into practice*. Endoscopy (IF 4.09), Vol. 52. 2020.

11. Gallagher, M.P., S.S. Kotwal, G.S. Talaulikar, **N.A. Gray**, K. Polkinghorne, S.P. McDonald, and A. Cass, *Reducing the burden of dialysis catheter complications: A national approach (reducction)*. Journal of the American Society of Nephrology (IF: 9.27), 2020. **31**: p. B2.
12. Gane, E., Y.S. Lim, P. Tangkijvanich, **J. O'Beirne**, T.H. Lim, A. Bakardjiev, X. Ding, L. Connolly, S. Huang, J. Kim, P. Pang, and R.M.F. Yuen, *Preliminary safety and antiviral activity of VIR-2218, an X-targeting HBV RNAi therapeutic, in chronic hepatitis B patients*. Journal of Hepatology (IF 14.67), 2020. **73**(S1): p. S50-S51.
13. **Hopkinson, D., L. Kearney**, M. Gray, J. Toohill and K. George, *Strength with Immersion Model (SwIM): Evaluation of new graduate midwives' experiences when employed within midwifery group practice*. Australian College of Midwives State Conference, Brisbane, May 2020.
14. Jegatheesan, D., R. Modderman, **R. Krishnasamy**, A. Tong, J. Coombes, A. Viecelli, D. Johnson, N. Isbel, *A systematic review of physical fitness outcomes and outcome measures in kidney disease*. Nephrology (IF: 1.91) 2020. **25**: p. 58-58.
15. **Kearney, L.**, F. Bogossian, R. Reed, K. George, **R. Nugent**, T. Triggs and **J. Reeves**, *Promoting and facilitating spontaneous vaginal birth in nulliparous women at full term: a systematic review*. International Midwifery Congress, Bali, Indonesia, June 2020. (Abstract accepted for oral presentation)
16. **Kearney, L., D. Hopkinson**, M. Gray and J. Toohill, *New Graduate Midwives in Australia delivering the future through continuity of care*. Trans-Tasman Midwifery Conference, Auckland, New Zealand, May 2020.
17. **Kearney, L., D. Hopkinson**, M. Gray and J. Toohill, *Strength with Immersion Model (SwIM): Newly qualified midwives employed within continuity of care models: evaluation of a Queensland state-wide initiative to strengthen professional capacity and support organisational change*. International Midwifery Congress, Bali, Indonesia, June 2020. (Abstract accepted for oral presentation)
18. Khan, S.A., D. Rowbotham, A. Chong, A. Majumdar, C. White, A. Huelsen, J. Brooker, **J. O'Beirne**, C. Schauer, M. Efthymiou, R. Vaughan, and S. Chandran, *SX-ELLA Danis stent for the management of refractory variceal bleeding in chronic liver disease: A multi-center Australian and New Zealand experience*. Gastrointestinal Endoscopy (IF 6.98), 2020. **91**(6): p. AB271-AB272.
19. **Lambooy, S., R. Krishnasamy**, and **N. Gray**, *Telemedicine for outpatient care of kidney transplant and chronic kidney disease patients*. Nephrology (IF: 1.91), 2020. **25**: p. 53-53.
20. **McCleary, K.**, *Utilising a simulation-based teaching strategy to develop a new physiotherapy paediatric critical care service in a developing tertiary health service*. Australian Critical Care (IF 2.21), 2020. **33**: p. S17.
21. McCleary, K., K. Grant, Z. Hutchinson, S. George, N. Powell, and **A. Turner**, *Development of a successful collaborative allied health multi-disciplinary team in a newly established mixed adult and paediatric critical care unit*. Australian Critical Care (IF 2.21), 2020. **33**: p. S17.
22. **Sopher, D., F. Gibbons, P. O'Conner**, and **K. Byrnes**, *Fully Automatic - Commissioning PerFraction for clinical use*. Physical and Engineering Sciences in Medicine, 2020. **43**: p. 409-410.
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24. Tiong, M.K., N.D. Toussaint, E.R. Smith, C.A. Hutchison, E.M. Pascoe, E.G. Ryan, C.M. Hawley, **R. Krishnasamy**, *Effects of a medium cut-off dialyser on protein-bound solutes and mineral metabolism markers - a sub-study of the REMOVAL-HD trial*. Nephrology (IF: 1.91) 2020. **25**: p72-73.
25. Tunnicliffe, D.J., S. Palmer, J.C. Craig, D.W. Johnson, B. Cashmore, V. M. Saglimbene, **R. Krishnasamy**, K. Lambert, G.F.M. Strippoli, *HMG COA reductase inhibitors (statins) for people with chronic kidney disease not requiring dialysis: a living Cochrane review*. Nephrology (IF: 1.91), 2020. **25**: p29-29.

26. **White, L., E. Davis, S. Buckton, Z. Samidurai, A. Sloss, and D. Patrick**, *Conversion to a phone clinic for the management of inflammatory bowel disease in the COVID-19 era*, Journal of Gastroenterology and Hepatology, Australia (IF 2.69), 2020. **35**: p. 122-123.

CONFERENCE PRESENTATIONS:

1. **Broom, J.**, *The social world of antimicrobials*, Internal Medicine society of Australia and New Zealand Conference Christchurch, Invited Speaker, February 2020.
2. **Caesar R.**, P. Colditz, G. Cioni, and R. Boyd, *Systematic review of clinical tools used ≤ 6 months to predict motor and cognitive delay in very preterm infants at 24 months corrected age*. American Academy of Cerebral Palsy and Developmental Medicine (Poster crawl with Past Presidents); Virtual meeting; 24 September 2020.
3. **Gray, N.**, *New outputs from ANZDATA KPI Reports*. 55th Australian and New Zealand Society of Nephrology (ANZSN) Annual Scientific Meeting - ANZDATA Symposium, Online December, 2020.
4. **Ram, P.S.**, *This is SPaRTa! (Specialist Palliative care Rural Telehealth Service)*. Asia-Pacific Journal of Clinical Oncology, 2020. **16**(SUPPL 8): p. 101. (Live Virtual Presentation Clinical Oncology Society of Australia Annual Scientific Meeting 2020, 12 Nov)
5. Shelford, C., and **B. A. Chan**, *Lessons learnt from a specialist oncology breast cancer nurse-led clinic (NLC) in a rural cancer centre*. Oral presentation, 2020. Cancer Nurses Society of Australia, Annual Scientific Meeting, (Senior author)

INVITED SPEAKER:

1. **Chan, B.**, *Convenor welcome*. Clinical Oncology Society of Australia Annual Scientific Meeting. Asia-Pacific Journal of Clinical Oncology (IF 2.01), 2020. **16**(S8), Melbourne, November 2020.
2. **Chan, B.**, *Demonstrating the power of QOOL at the individual patient level: QOOL dash - Tracking my Lung cancer MDT performance*. Plenary – Clinical Oncology Society of Australia Annual Scientific Meeting. Asia-Pacific Journal of Clinical Oncology (IF 2.01), 2020. **16**(S8), Melbourne, November 2020.

POSTER PRESENTATIONS:

1. Ahern. E., H. Gasper, N. Roberts, **B.A. Chan**, Z. Lwin, *Psychosocial impacts of COVID-19 on oncology workforces: Metro versus regional Australia*. 2020 American Society of Clinical Oncology (ASCO) Quality Care Symposium, San Diego (Co-author)
2. Andelkovic. V., W. Xu, H. Gasper, **B.A. Chan**, K. O'Bryne, R. Ladwa, *Evaluation of a virtual meeting platform for state-wide oncology education during the COVID-19 pandemic*. 2020 Clinical Oncology Society of Australia Annual Scientific Meeting, Brisbane (Co-author)
3. **Gauld, L.**, G. Kyle, A. Poudel, L. Nissen, *Colony stimulating factors to treat febrile neutropenia: What do we know and what should we be doing?* 2020 British Oncology Pharmacy Association (BUPA) Virtual Symposium, October 2020.
4. Gasper, H., E. Ahern, N. Roberts, M. Eastgate, D. Wyld, B. Hughes, K. Glen, **B. Chan**, and Z. Lwin, *Developing a semi-qualitative protocol to explore the psychosocial impact of COVID-19 on cancer care staff throughout the pandemic*. Asia-Pacific Journal of Clinical Oncology, 2020. **16**(SUPPL 2): p. 34-35.
5. Mercurio, J., M. Cummins, N. Corsini, M. Eckert, **B. Chan**, L. Altus, and G. Cehic, *Improving the quality of care delivery during Peptide Receptor Radionuclide Therapy (PRRT) for patients with Neuroendocrine Neoplasms (NENs): Development and implementation of personalised patient planners (PPS) to streamline complex multidisciplinary care*. Asia-Pacific Journal of Clinical Oncology, 2020. **16**(SUPPL 8): 185. (e-Poster Presentation Clinical Oncology Society of Australia Annual Scientific

Meeting 2020 11 Nov)

6. Middleton, R., W. Bernard, D. Lambe, T. Young, and **B. Chan**. *Development and implementation of a psychologist-led complex patient multi-disciplinary team meeting (CP-MDTM) to address unmet psychosocial needs of patients with cancer: experience from the Adem Crosby Cancer Centre, Sunshine Coast University Hospital and Health Service*. e-Poster Presentation Clinical Oncology Society of Australia Annual Scientific Meeting 2020, Virtual conference, November 2020. (Senior author)
7. Roberts, N., E. Ahern, H. Gasper, **B.A. Chan**, Z. Lwin, *Emotional impact of COVID-19 preparations on metro and regional cancer workforces in Queensland, Australia: "We are all in this together"*. 2020 American Society of Clinical Oncology (ASCO) Quality Care Symposium, San Diego (Co-author)
8. Turner, C., J. Anderson, S. Zulkifli, J. Mitchell, N. Chen, H. Brand, A. Widders, G. Anderson, **B.A. Chan**, *Real-world treatment patterns and survival outcomes for small cell lung cancer (SCLC): experience from the Sunshine Coast Hospital and Health Service (SCHHS)*. 2020 Clinical Oncology Society of Australia Annual Scientific Meeting, Brisbane (Senior author)
9. Widders, A., K. Ringshaw, S. Chaille, J. Wilson, K. West, **B.A. Chan**, *Improving the systemic management and delivery of oral cancer systemic therapies (OST) at a rural outreach cancer clinic: A quality improvement project from the Gympie day oncology unit*. 2020 Clinical Oncology Society of Australia Annual Scientific Meeting, Brisbane (Senior-author)

PRESENTATIONS:

1. **Bennett, K.**, and **S. Kingscote**, *Penicillin allergy de-labelling at the front door: Pharmacists-led implementation at Sunshine Coast University Hospital*, Allied Health Forum, SCHI Auditorium, December 2020.
2. **Bennett, K.**, and **S. Kingscote**, *Penicillin allergy de-labelling at the front door: Pharmacists-led implementation at Sunshine Coast University Hospital*, 2020 ED Innovation Showcase Presentation, SCHI Auditorium, December 2020.
3. **Graham, K.**, *Evaluation of the team-based pharmacy model for General Medical inpatients at the Sunshine Coast University Hospital and Nambour General Hospital*, Allied Health Forum, SCHI Auditorium, December 2020.
4. **Hansen, M.**, *Introduction of a Pharmacy Residency Program at the Sunshine Coast University Hospital*, Allied Health Forum, SCHI Auditorium, December 2020.
5. **Williams, P.**, *Different Approaches to Antimicrobial dose optimisation*. Antimicrobial Therapeutic Drug Monitoring Workshop, (Virtual Seminar – delegates from >25 Countries), November 2020.
6. **Williams, P.**, *Dosing Software Practical Application: ID-ODS case studies: Vancomycin and Meropenem*, (Virtual Seminar – delegates from >25 Countries), November 2020.
7. **Williams, P.**, *Wishlist Grant Writing presentation and panel discussion*, SCHI Auditorium, July 2020.

QUALITY IMPROVEMENT PROJECT:

1. **Cao, M.** *Streamlining the hidradenitis suppurativa (HS) deroofting procedure*. Patient handout.

SUNSHINE COAST HEALTH INSTITUTE PARTNER PUBLICATIONS

1. Aziz, A., B.J. Currie, M. Mayo, D.S. Sarovich, and E.P. Price, *Comparative genomics confirms a rare melioidosis human-to-human transmission event and reveals incorrect phylogenomic reconstruction due to polyclonality*. *Microbial Genomics*, 2020. **6**(2): e000326/
2. Bogossian, F. and D. Craven, *A review of the requirements for interprofessional education and interprofessional collaboration in accreditation and practice standards for health professionals in Australia*. *Journal of Interprofessional Care*, 2020. Sep 16; p. 1-10. [Online ahead of print]
3. Burnard, D., L. Gore, A. Henderson, A. Ranasinghe, H. Bergh, K. Cottrell, D.S. Sarovich, E.P. Price, D.L. Paterson, and P.N.A. Harris, *Comparative Genomics and Antimicrobial Resistance Profiling of Elizabethkingia Isolates Reveal Nosocomial Transmission and In Vitro Susceptibility to Fluoroquinolones, Tetracyclines, and Trimethoprim-Sulfamethoxazole*. *Journal of Clinical Microbiology*, 2020. **58**(9): e00730-20.
4. Chen, X.M., A. Keramidas, R.J. Harvey, and J.W. Lynch, *Effects of GluN2A and GluN2B gain-of-function epilepsy mutations on synaptic currents mediated by diheteromeric and triheteromeric NMDA receptors*. *Neurobiology of Disease*, 2020. **140**: p. 104850.
5. Chen, Y., F.F. Lin, and A.P. Marshall, *Patient and family perceptions and experiences of same-day discharge following percutaneous coronary intervention and those kept overnight*. *Intensive & Critical Care Nursing*, 2020. **62**: p. 102947.
6. Coyne, E., P. Calleja, E. Forster, and F. Lin, *A review of virtual-simulation for assessing healthcare students' clinical competency*. *Nurse Education Today*, 2020. **96**: p. 104623.
7. Ho, Y.M., K. Merollini, and L. Gordon, *No reduction in colonoscopy use since 2019 Medicare Benefits Schedule item number reforms: An initial analysis*. *Journal of Gastroenterology and Hepatology*, 2020. **35**: p. 202-202.
8. Imai, C., L. Hall, S.B. Lambert, and K.M.D. Merollini, *Presenteeism among healthcare workers with laboratory-confirmed influenza infection: A retrospective cohort study in Queensland, Australia*. *American Journal of Infection Control*, 2020. **48**(4): p. 355-360.
9. Merollini, K.M.D., L.G. Gordon, J.F. Aitken, and M.G. Kimlin, *Lifetime Costs of Surviving Cancer-A Queensland Study (COS-Q): Protocol of a Large Healthcare Data Linkage Study*. *International journal of environmental research and public health*, 2020. **17**(8): p. 2831.
10. Moritz, D. and P. Ebbs, *Consent and refusal of treatment by older children in emergency settings*. *Emergency Medicine Australasia: EMA*, 2021. **33**(1): p. 168-171. [Epub 2020 Nov 9]
11. Pearson, T., J.W. Sahl, C.M. Hepp, K. Handady, H. Hornstra, A.J. Vazquez, E. Settles, M. Mayo, M. Kaestli, C.H.D. Williamson, E.P. Price, D.S. Sarovich, J.M. Cook, S.R. Wolken, R.A. Bowen, A. Tuan-yok, J.T. Foster, K.P. Drees, T.J. Kidd, S.C. Bell, B.J. Currie, and P. Keim, *Pathogen to commensal? Longitudinal within-host population dynamics, evolution, and adaptation during a chronic >16-year Burkholderia pseudomallei infection*. *PLoS Pathogens*, 2020. **16**(3): e1008298.
12. Perry, C.J., P. Finch, A. Müller-Taubenberger, K.-Y. Leung, E.C. Warren, J. Damstra-Oddy, D. Sharma, P.H. Patra, S. Glyn, J. Boberska, B. Stewart, A. Baldwin, F. Piscitelli, R.J. Harvey, A. Harwood, C. Thompson, S.P. Claus, N.D.E. Greene, A.J. McNeish, C.M. Williams, B.J. Whalley, and R.S.B. Williams, *A new mechanism for cannabidiol in regulating the one-carbon cycle and methionine levels in Dictyostelium and in mammalian epilepsy models*. *British Journal of Pharmacology*, 2020. **177**(4): p. 912-928.
13. Price, E.P., V. Soler Arango, T.J. Kidd, T.A. Fraser, T.-K. Nguyen, S.C. Bell, and D.S. Sarovich, *Duplex real-time PCR assay for the simultaneous detection of Achromobacter xylosoxidans and Achromobacter spp.* *Microbial Genomics*, 2020. **6**(7): mgen000406.

14. San Martin, L., S. Gallegos, A. Araya, N. Romero, G. Morelli, J. Comhair, R.J. Harvey, J.M. Rigo, B. Brone, and L.G. Aguayo, *Ethanol consumption and sedation are altered in mice lacking the glycine receptor $\alpha 2$ subunit*. *British Journal of Pharmacology*, 2020. **177**(17): p. 3941-3956.
15. Schaumberg, M.A., J. Stanley, D.G. Jenkins, E.A. Hume, X.A.K. Janse de Jonge, L.M. Emmerton, and T.L. Skinner, *Oral Contraceptive Use Influences On-Kinetic Adaptations to Sprint Interval Training in Recreationally-Active Women*. *Frontiers in Physiology*, 2020. **11**: p. 629.
16. Syed, P., N. Durisic, R.J. Harvey, P. Sah, and J.W. Lynch, *Effects of GABA(A) Receptor alpha 3 Subunit Epilepsy Mutations on Inhibitory Synaptic Signaling*. *Frontiers in Molecular Neuroscience*, 2020. **13**: 602559.
17. van der Spek, S.J.F., F. Koopmans, I. Paliukhovich, S.L. Ramsden, K. Harvey, R.J. Harvey, A.B. Smit, and K.W. Li, *Glycine Receptor Complex Analysis Using Immunoprecipitation-Blue Native Gel Electrophoresis-Mass Spectrometry*. *Proteomics*, 2020. **20**(3-4): e 1900403.
18. Webb, J.R., N. Buller, A. Rachlin, C. Golledge, D.S. Sarovich, E.P. Price, M. Mayo, and B.J. Currie, *A Persisting Nontropical Focus of Burkholderia pseudomallei with Limited Genome Evolution over Five Decades*. *MSystems*, 2020. **5**(6): e00726-20.

