# Table of contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreword</td>
<td>4</td>
</tr>
<tr>
<td>Introduction</td>
<td>5</td>
</tr>
<tr>
<td>Research snapshot</td>
<td>6</td>
</tr>
<tr>
<td>Research day 2017</td>
<td>7</td>
</tr>
<tr>
<td>Research highlights</td>
<td>8</td>
</tr>
<tr>
<td>• Allied Health</td>
<td>8</td>
</tr>
<tr>
<td>• Cardiology</td>
<td>10</td>
</tr>
<tr>
<td>• Clinical research trials</td>
<td>12</td>
</tr>
<tr>
<td>• Hepatology</td>
<td>14</td>
</tr>
<tr>
<td>• Intensive Care Unit</td>
<td>16</td>
</tr>
<tr>
<td>• Mental Health and Addiction Health Services</td>
<td>18</td>
</tr>
<tr>
<td>• Renal</td>
<td>19</td>
</tr>
<tr>
<td>• Stroke and Rehabilitation</td>
<td>20</td>
</tr>
<tr>
<td>• Surgical</td>
<td>21</td>
</tr>
<tr>
<td>• Women’s and Families</td>
<td>22</td>
</tr>
<tr>
<td>Wishlist—Sunshine Coast Health Foundation</td>
<td>23</td>
</tr>
<tr>
<td>New projects 2017</td>
<td>24</td>
</tr>
<tr>
<td>Journal articles and abstracts</td>
<td>28</td>
</tr>
<tr>
<td>References</td>
<td>38</td>
</tr>
</tbody>
</table>
2017 was a year of substantial change and gifts for research in Sunshine Coast Hospital and Health Service (SCHHS).

There were challenges for researchers but more importantly we saw the opening of Sunshine Coast Health Institute (SCHI) in January 2017, Sunshine Coast University Hospital (SCUH) in March 2017, and the September 2017 announcement of the 15 additional medical places for Griffith University’s medical school which will commence in 2019.

As our collaborations with SCHI partners and other researchers develop and mature, our future path will change and new challenges and questions may arise. This report documents the work of our researchers in 2017 and will become a historical document, so that in years to come we may look back upon the path travelled.

While it is important to rise to the challenges facing us, it is also important to take some time to reflect. We celebrate more publications than ever before and ongoing grant success. Research has become integral to the delivery of high quality health care. Our collaborations with supporters remain strong, foremost being with Wishlist (the Sunshine Coast Health Foundation). The Research Committee has been revitalised into a smaller Research Council supported by an operational group, and I thank these hard working members who assist in driving the research agenda.

Grace Hopper, ex-Rear Admiral for the US Navy said:

“The most dangerous phrase in the language is ‘We’ve always done it that way’”.

Our researchers are constantly challenging what we do and driving change.

We commend the SCHHS Research Report 2017 to you.
Many years of planning and preparation culminated in the successful opening of Sunshine Coast University Hospital (SCUH) in March 2017, a new tertiary level healthcare facility expanding and complementing the other services within Sunshine Coast Hospital and Health Service (SCHHS).

The interim National Safety and Quality Health Service Standards Accreditation for SCUH was achieved shortly after. The health service achieved full accreditation in 2018. Researchers balanced the demands of transition and ongoing clinical service delivery while also completing research related site transition requirements of research. All of this while further increasing research.

As a health service with a tertiary level facility, the provision of advanced medical investigation and treatment is imperative. Research provides treatment options, improves management of disease and enables innovative ways of achieving outcomes and producing solutions to health problems. It provides a pathway for informing policy, developing guidelines and prescribing best practice (3).

A key requirement of research is the translation of results into clinical practice. The act of researching in itself can also provide significant outcomes such as enhancing staff skills in communication, project management, collaboration, organising budgets, ethics applications, research protocol, literature reviews and presenting and publishing their work (3).

Research outcomes lift the profile of the health service in the public and health community and support growth of an organisation. A high profile maintains trust and acceptance of the organisation in the community and the professional sector.

This research report presents the research outputs for the calendar year 2017 and reinforces the SCHHS Research vision:

“The creation of an organisational culture that combines innovation and pursuit of knowledge into best practice patient care is critical to the development of a significant and internationally recognised research presence.”

Three essential elements of this vision are:

• Providing outstanding care
• Developing new knowledge, through research, to contribute to regional, national and international improvements in evidence based practice
• Mentoring and education of the next generations of staff that fosters local research capability. (3)
Research snapshot

Data in this research snapshot relates to research projects that have received Research Governance Approval from January to December 2017 inclusive.

- 60 Research Governance Approvals
  - 80% were investigator led studies
  - 20% were new clinical trials
  - 15% were RHD student projects
  - 22% were interdisciplinary internal collaborations

- Of the 60 approved between Jan and Dec 2017, 25 were collaborations with other organisations.
  - 6 collaborations involved USC
  - 7 collaborations involved UQ

- 20 SCHHS staff involved in clinical trials
- 86 SCHHS staff involved in investigator-led studies

- 69 clinical trials active as at December 2017

Projects by Research Theme:
- Health services research
- Care of the Surgical patient
- Infectious disease
- Oncology
- Chronic disease
- Trauma, critical care and emergency care
- Maternal and child health
- Mental health
- Cardiovascular and renal disease
- Other
- Clinical trials
- Aged care, cognitive impairment and stroke

Research funding and grants:
- Other funding grants $219,796.00
- Wishlist Research Grants $227,017.85
- Wishlist RHD Scholarships $107,371.03
- SERTF (Research) $75,293.60
The annual SCHHS Research Day was celebrated on 15 November 2017.

2017 marked the first year of the event being held at the Sunshine Coast Health Institute (SCHI). About 270 people attended the day to witness SCHHS researchers showcasing their work. The day is central to developing healthcare in our region through research and innovation and is a way of supporting our staff in advancing healthcare.

This year, SCHHS was grateful to welcome keynote speaker Professor Emeritus Alan Mackay-Sim from the Griffith Institute for Drug Discovery, Australian of the Year 2017, and stem cell scientist. As a world leader in spinal cord injury research, Professor Mackay-Sim has led a Brisbane team in a world-first clinical trial in which the patient’s own olfactory cells were transplanted into their injured spinal cord in the first stages of a therapy to treat human paraplegia. Professor Mackay-Sim’s keynote address provided fascinating examples of his ground-breaking research.

Research Day was also an opportunity to award the recipients of the 2017 Wishlist Research Grants. Wishlist Foundation Chief Executive Officer, Lisa Rowe, awarded a total of $105,876 to fund seven innovative research projects to be undertaken in the SCHHS, by health service staff.

The research grants supported projects that investigated a range of conditions and methods of care, including chronic kidney disease which affects hundreds of people living locally, a randomised trial on a specific therapy used to treat heart failure, the monitoring of invasive diseases in our vulnerable populations, and the barriers of caring for dying newborns close to or at home.

Building sustainable research capacity requires development of a strong research culture within clinical departments and the health service, effective research management, funding support, suitable research facilities and research collaborations. The annual SCHHS Research Day is a key event that showcases how staff translate these principles into action within the health service.
Allied Health research highlights

Allied health established a research collaboration working party to draft a research plan for 2017-2022.

The plan outlines the professional direction and objectives for allied health research in Sunshine Coast Hospital and Health Service. The allied health plan for research documents the current landscape, challenges and goals to achieve increased research capability, and to expanding research capacity and outcomes.

The recent opening of Sunshine Coast University Hospital has led to allied health staff now working within a tertiary health care environment. A central component of a tertiary health care environment is the establishment of research practice and contribution to improve health care. The allied health research priorities are:

1. 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.
   • Undertaking a gap analysis in specialty areas regarding the use of evidence-based practice and clinical guidelines measuring key clinical indicators.
   • Development and enabling of allied health lead researchers in clinical specialty areas to facilitate allied health clinicians within their specialty area to undertake research.

2. Development of support and infrastructure specific for allied health through:
   • Communicating current health service resources and education for Allied Health staff to enable skill building, capacity building and culture development in implementing research e.g. build strong collaboration with Sunshine Coast Health Institute, Innovation, Quality, Research and Education (IQRE) group and external partners e.g. Griffith University and the University of the Sunshine Coast.
   • To support staff through education and mentoring activities to participate or complete research as per the requirements of their role description.
   • Allocating institutional allied health funding to support research within the Allied Health Professional Workforce Plan. Allocated funding will be utilised to support individual researchers to undertake research activities and generate research outputs within working hours.
   • Proposal for a research mentor position within the Allied Health Professional Workforce Plan.
   • To create a digital repository for allied health research, which allied health staff can access to know what past, current or future research is occurring in allied health.
   • To identify key contact persons within the Research Governance and Development Unit for the allied health workforce.

3. Development of a strong research culture within the allied health workforce by:
   • Engaging staff to actively promote research within the health service e.g. via the allied health research mentoring group, participation in SCHHS or Queensland Health research events such as the health service’s annual Research Day and other symposiums.
   • Encouraging the use of data linkage to facilitate health service research.
   • Executive Director Allied Health will be a permanent member of the Research Committee. Allied Health staff will be encouraged to become a member of the health service’s Research Committee when positions are available. Representatives on the research committee have a reporting requirement to the Allied Health Governance Committee.
   • Establish a local allied health research workgroup with the aim to identify new innovative ideas and to progress development of a research protocol.
   • Fostering specialist workgroups to participate in collaborations with possible epidemiology research output.
Research highlights:

Examining the management of gestational diabetes mellitus (GDM) in Queensland. Gestational diabetes affects more than 10% of pregnancies on the Sunshine Coast and this number has risen dramatically in recent years. In 2015, Queensland Health published the first clinical guideline for GDM in conjunction with the changes to diagnostic criteria. The risks of poorly controlled GDM include large-for-gestational age babies or macrosomia which can result in increased caesarean deliveries and birth trauma. However, when well-managed, women with GDM experience similar pregnancy outcomes to those without.

Dietitian, Nina Meloncelli has been undertaking a Health Services PhD, examining gestational diabetes management and translating the clinical guidelines into practice. Nina’s research comprises of three separate but complimentary studies, each contributing new knowledge about how gestational diabetes is managed in Queensland and more broadly, Australia. These studies are:

1. Two surveys (one national and one specific to Queensland Health) targeted at the multidisciplinary team (MDT) and directors of gestational diabetes services to understand the currently management practices, models of care, attitudes and perceptions, staff resourcing and guideline implementation
2. An analysis of Queensland Perinatal Data for the year before (2014) and after (2016) the Queensland Clinical Guideline for GDM was published which included changes to diagnostic criteria
3. Evaluation of a model of care in the health service which aims to implement guideline recommendations, in particular, minimal schedule of dietitian appointments and the implementation of a low-risk model of care.

Progress-to-date includes the publication of survey results in the Australian and New Zealand Journal of Obstetrics and Gynaecology and a second manuscript currently under review. The survey showed that while screening and diagnosis is somewhat uniform, there is considerable variation to how gestational diabetes is managed nationally. The second survey across Queensland Health has highlighted that despite a 33 per cent increase in diagnosis of GDM since changes to the diagnostic criteria, only half the health service received minimal increases to staff resourcing. Less than 50 per cent of the services report full implementation of the clinical guideline and unsurprisingly, staff resourcing was overwhelmingly the most commonly reported barrier to guideline implementation.

A new model of care for GDM has been underway in the health service since October 2017 and the data collection period for the evaluation is almost at its end. The primary outcomes of interest are pharmacotherapy use, total cost of antenatal care, adherence to dietetic schedule of appointments and clinician awareness and satisfaction. Developing the model of care involved collaboration with the entire GDM MDT and ongoing support from the Diabetes Centre. Nina is grateful for the support and enthusiasm demonstrated by the diabetes team which has made researching in this area both enjoyable and achievable.

The gestational diabetes research has been underpinned by an Australian Government Research Training Program Stipend, Wishlist Research by Higher Degree Scholarship and most recently, a Health Practitioners Research Scheme Grant. Nina will finalise data collection and analysis by early 2019 and plans to submit her PhD thesis by the end of next year. Once completed, Nina aims to take the model of care state-wide with the inclusion of dietitian credentialing for expanded scope of practice and provide telehealth support to remote and rural services.
Cardiology research highlights

Research within the Cardiology Department continues to flourish at SCHHS.

Professor Tony Stanton established a significant research presence and likewise Professor Kim Greaves has continued to drive an innovative research agenda forward.

The department clinicians are driving a strong research culture amongst staff encouraging and supporting junior researchers through mentorship and guidance.

Professors Greaves and Stanton have acted as PhD supervisors for four students and supported many medical students and junior doctors with their research projects.

The department was awarded funding from two major grant sources to support projects:

- The Health Improvement Unit, Clinical Excellence Division, Queensland Health: $500,000 (Lead CI). GP Data Linkage and ReDy Consent Projects; and the
- Australian Department of Health grant for Absolute Risk Assessment of Cardiovascular Disease for Aboriginal and Torres Strait Islander People: $2.4M (CI)

and J Quah was awarded winner of the best poster at the prestigious Asia Pacific Congress Cardiology, Singapore, May 2017.
Our plans for 2018 and beyond

The cardiology department will build its capacity for cardiovascular disease research within the SCHHS over the next few years in line with the strategic research themes and needs of our population. We intend to focus on the department's research strengths of microvascular function and primary prevention.

Recruiting and supporting more higher degree research students will continue to build our research culture and we are keen to explore opportunities to establish a program with Griffith University for medical students to undertake a PhD as part of their medical training. Another exciting initiative to be explored is the potential for a fast track PhD program to be optionised into the cardiology advanced trainee training program.

We will continue to work on the innovative Data Linkage and ReDY consent pilot and contribute to the work of the Department of State Development who are looking to identify future options to build on the work of the Data Linkage and ReDY work.

We also have plans to assess the use of PENCS as a surveillance tool for ACVD risk and recall of high risk patients, using the results from our research and our work with policy makers (Heart Foundation, NCEPH) to increase ACVD risk scoring and treatment uptake by our population.

We are exploring a collaboration with USC on cardiac rehabilitation which will provide a wealth of research opportunities.

2017 has been an outstanding year of research development for the cardiology department and we are excited to build and expand upon that progress as we move forward into delivery of tertiary level health services.
During 2017 clinical trials we continued to recruit patients for additional clinical trials while transitioning to the new hospital.

Moving sites was challenging, familiarization with the new environment, lots of new equipment plus the mandatory requirement to obtain Ethics Committee approval to amend contractual documentation meant that the trials coordinators were busy and fully occupied. The team under the leadership of Helen Rodgers, Nurse Manager for Clinical Research did a fantastic job, their enthusiasm and commitment unfaltering.

In August 2017 the new Clinical Research Unit opened on level 2 of SCUH. This visible demonstration of the SCHHS commitment to advancing clinical research provides a dedicated area with eight consultation rooms each with its own ensuite, comprehensive support facilities including procedure room, pantry and medication preparation room all located within a restricted access area. We look forward to increasing clinical research activity and seeing more patients in this dedicated area.

A significant first for SCUH was the acceptance of SCUH to participate in a phase 1 clinical trial in Hepatology. This was the first time the SCHHS had completed negotiations and preparations to participate in an early phase international study and was huge in terms of our research capability and profile. Since then Hepatology have embarked on further clinical trials and have plans to extend further over the next few years.

Medical disciplines leading the way in trials and research in 2017 were Stroke, Renal, Hepatology, Cardiology and Oncology. All of these units continue to provide our patients with greater options and hope for their patient journey and medical advances for care of others who follow.
Figure 1: Number of Clinical Trials active during 2017
2017 was a busy year for the Hepatology Unit as we deliver a busy clinical service in addition to promoting and embedding research culture within the department.

The unit has been successful in two grant applications:

1. Evaluation of ultrathin unsedated endoscopy for variceal surveillance (NTFEP - $250,000)
2. Effect of a high fat meal on vascular function in NAFLD (Inflame - $5000)

We reported the work of the unit in national and international meetings such as the British society of gastroenterology meeting, Manchester, UK, International liver cancer association, Seoul and Australian Viral Hepatitis Elimination Conference, Cairns.

A number of collaborations have been established with local and national partners including the University of the Sunshine Coast, Queensland Institute for Medical Research (QIMR) and the Kirkby Institute in New South Wales (NSW).
We have successfully opened and recruited into a clinical trial of Etrasimod in Primary Biliary cholangitis. This is an early phase proof of concept study and we were the 2nd institute in Australia to recruit.

Our Hepatology Partnership program for the treatment of Hepatitis C (funded by the Integrated Care Innovation Fund and Australian Centre for Health Services Innovation) continues to deliver excellent clinical outcomes and research data leading to numerous abstracts and one published manuscript with another under consideration.
2017 saw the continued growth and development of our intensive care research department.

After the transition to Sunshine Coast University Hospital (SCUH), we put the spotlight on critical care research by holding the Inaugural Critical Care Research Forum (QCCRF) at SCUH. This forum brought together world-class researchers and clinicians from intensive care units across the state to develop research which matters to Queensland and hosted some of the foremost critical care researchers in the world as guest speakers, including Prof Rinaldo Bellomo, Prof John Fraser, Prof Bala Venkatesh and Prof Jason Roberts.

Hosted at the Sunshine Coast Health Institute, more than 80 registered delegates attended including specialists, academic university researchers, research coordinators and allied health researchers. This was a remarkable team effort from our Intensive Care Unit (ICU) research unit and as result Dr John Moore is now leading a state-wide research network and we look forward to holding the event again in 2018.

Having secured a funding award of $106,000, 2017 saw the commencement of Dr John Moore’s All-SPICE Study. Project Managed by Lauren Murray across four ICU sites in Queensland and NSW, we enrolled 100 critically ill patients in 12 months. We have examined the bloodbourne markers of stress and hypothesise that the use of sedating medications confuses the normal coordination of a stress response. This may be a fundamental underlying cause for the abnormal haemodynamics and metabolic disturbances seen in multi-organ failure.

A/Prof Chris Anstey has continued the body of work for his PhD, enrolling patients and using the facilities in the SCHI laboratory performing citrate analysis for his ACCid-HF study in collaboration with Prof Fraser Russel (USC).

This study is unique in that it uses a simple, stable, reliable and valid method of quantifying citrate concentration in both the plasma and the ultrafiltrate. The method is based on a proprietary assay that has been successfully modified at USC to suit our purposes. If successful, the assay will be developed to permit real-time bedside use.
2017 also saw continued participation in National and International collaborative research with completed recruitment in the ADRENAL trial with 122 patients enrolled at our site. Alongside completion of ADRENAL GEPS, ETHICUS II, ART123, AMINO III, PHEEM-Q-ICU, continued recruitment in SPICE III and STARRR-AKI, and commenced recruitment in PPPIC, DIANA and PneumoINSPIRE.

Local investigator research continued to grow with seven nursing, registrar and consultant driven projects commenced, continued or completed in 2017.

For more information please request a copy of the SCICCR 2017 newsletter.

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The focus of Mental Health and Addiction Services (MHAS) has been on establishing a governance structure to approve and monitor all MHAS research projects.

This included establishing a local MHAS research committee with membership from interdisciplinary stakeholders and, importantly, representation from consumers and carers. It is important to us to include the perspective of our consumers and carers to inform our research activity. Current research activities include many innovative and clinically relevant projects with oversight from this governance committee.

Examples of these projects are cited below, many of which include tertiary educational and research partners:

- The Queensland Mental Health Services Employment Specialist Initiative: Enhancing recovery and social inclusion through competitive employment
- Investigating the narrative abilities of typically developing adolescents, to support assessment and intervention within a mental health service.
- Understanding Emergency Department triage and Mental Health service delivery for consumers.
- Investigating the narrative abilities of adolescents who present to CYMHS with a primary anxiety disorder
- Identifying barriers to change: the lived experience worker as a valued member of the mental health team.
- The efficacy of sodium benzoate as an adjunctive treatment in early psychosis.
- An investigation of a collaborative interagency service model of an intensive day program for mothers with a perinatal mental illness and their infant children under 12 months of age.
- Can individuals currently residing in a Queensland Health Community Care Unit and diagnosed with a severe enduring mental illness improve their social functioning with the introduction of Social Cognition Interaction Training.
- The All of Us Study—Operational staff’s experience of performing cardiopulmonary resuscitation in acute care settings.
- Sexual health and sexuality in people with major mental illness treated under a Forensic Order: A cross-sectional quantitative survey study (Phase 1).
- Sexual knowledge in people with a major mental illness treated under a Forensic Order: A cross-sectional quantitative survey method (Phase 2).
- Evaluating reflective practices for nursing staff in an acute care hospital setting.

Another key focus of the MHAS research committee is to develop a MHAS research plan which aligns with the wider SCHHS strategic priorities. The MHAS focus being to continuously improve care and outcomes for consumers and carers. A key aspect of this being to develop and maintain a register of MHAS research projects including the outcome in order to support translation of our research projects into practice.

The committee provides a supportive environment and aims to foster a culture of evidence based practice by promoting and supporting MHAS staff to develop their skills. By identifying experienced research mentors the MHAS supports less experienced staff as they embark on their research journey. The MHAS supports trainees of the Australian and New Zealand College of Psychiatry in the conduct of their scholarly projects and staff in the conduct of research higher degrees.

The MHAS continue to identify exciting collaborative research opportunities, establishing Memorandum of Understanding between the health service and Florey Institute of Neuroscience and Mental Health and University of the Sunshine Coast. Inter-departmental research with the Department of Emergency Medicine has flourished to examine and understand the interface between emergency triage and MHAS service delivery.

It is anticipated the MHAS research capacity will continue to grow as we develop a more sophisticated approach to research with our staff and external partners. Exciting times are ahead as we identify and address staff research learning needs and our service develops in speciality areas. Areas such as eating disorders, adolescent mobile outreach services, perinatal and infant mental health, alongside our current service delivery to older persons, adults, children and adolescents across the whole of the Sunshine Coast region, provide endless opportunities for research to continuously improve consumer and carer outcomes and care.
Renal research activity continues to grow with some exciting developments in 2017.

Research expanded into allied health and nursing streams, including supervision of USC honours students from both occupational therapy and dietetics. These links, combined with our dietitian PhD candidate working on the Synergy 2 (SYNbiotics: easing renal failure by improving gut microbiology 2) study has generated further projects into 2018. Another highlight was one of our nursing staff presenting her reflections of research skills learned while participating in a research project.

Dr Rathika Krishnasamy continued her stellar performance in research with highlights including appointments as a clinical trialist and haemodialysis workgroup member for Australasian Kidney Trials Network, successful oversight and completion of the REMOVAL-HD (Effect of the Theranova dialyser on albumin and uraemic solutes in haemodialysis) study, appointment as Australian Fellow for the RESOLVE (Randomised evaluation of sodium dialysate levels on vascular events) study, membership of the ANZDATA haemodialysis workgroup and Canadian exercise in kidney disease collaboration group, and finally appointment to the Australian Calciphylaxis Registry steering committee.

There were five published papers in 2017 with another three accepted for publication with some work presented by staff at the American Society of Nephrology Kidney Week.

A/Prof Gray continues work on the NHMRC funded REDUCTION (Reducing the burden of dialysis catheter complications: A National approach) study with close to 40 renal units across Australia participating. Next year looks better than ever with Dr Krishnasamy listed as chief investigator for two NHMRC and one MRFF project grants and commencing supervision of her first PhD candidate.

Finally, a thank you to our nurse research coordinators, Andrea Pollock, Gerald Hilder, and Elen Witness, who help make this all possible.
Stroke and rehabilitation research highlights

Stroke and rehabilitation research 2017 continued to develop a multidisciplinary research program with a focus on brain repair, early rehabilitation and recovery after stroke, and Parkinson’s disease.

We have experienced ongoing growth of local stroke rehabilitation and recovery studies and intensified our collaborations with universities and research institutes across Australia. There has also been ongoing strong involvement in multi-centre clinical trials spanning acute stroke reperfusion, enhancement of stroke recovery, prevention of stroke, and Parkinson’s disease. Some highlights:

- The team demonstrated the ability to run multi-site studies from SCHHS with the ‘Building effective and equitable pathways to and through rehabilitation after stroke’ (BEEPRS) study recruiting 504 participants across seven sites in Queensland. BEEPRS, led by Dr Rohan Grimley and managed by Ingrid Rosbergen is investigating where and how much rehabilitation stroke patients receive to identify gaps in the rehabilitation health service system, and pave the way for tailored interventions to improve access.

- Dr Grimley was successful in securing $979,270.00 NHMRC funding as a chief investigator in the Partnership Project: Trial of Advanced CT Imaging and Combined Education Support for Drip and Ship (TACTICS). TACTICS will involve a stepped-wedge cluster trial of an enhanced model of care combining advanced computed tomography (CT) brain imaging, streamlined workflows, triage, transport and reperfusion pathways training to providing improved access for patients to reperfusion therapies in acute stroke. This study will commence soon across sites in Queensland and NSW. Dr Grimley published eight peer reviewed journal articles and presented 14 published abstracts in 2017.

- Ingrid Rosbergen (PhD candidate) led ‘embedding an enriched environment in the acute stroke unit’ to determine effect on patient activity levels. She published two peer review papers and five abstracts in 2017 and became a Future Leader within the NHMRC Centre of Excellence ‘Stroke Rehabilitation and Brain Recovery’, increasing collaborations across The Florey Institute of Neuroscience and Mental Health, Newcastle’s Hunter Medical Research Institute and other leading institutes.

- Samantha Robertson investigated ‘impact of nutritional environmental enrichment strategies on intake and rates of malnutrition in an acute stroke unit’ and presented study results at the International Stroke Conference in Queenstown, New Zealand.

In 2017 other SCHHS research-led studies started or underway include:

1. MONACT investigating the impact of hospital design on patient activity levels (Isaac Tonello).
2. CoAAS — using serial cognitive assessments to map early cognitive recovery after stroke (Alana Campbell, PhD candidate).
3. Increasing the amount of active practice — implementing evidence based interventions (Claire Stewart, PhD candidate).
4. Multi site person-centred goal setting project (Amanda Baker).
5. SCHHS site of multi-site SmartArm study after stroke (Sally Horsley).
6. TableTOP — Tablet Based Testing for Postoperative Cognitive Dysfunction in Home Visit Follow-up (Dr Emerald Setbo).
7. Identification and Outcomes of Transient Ischaemic Attack Mimics (Dr James Anderson).
8. Predictors of representation following management of seizure in the 4F study (Ryan Gee).
9. Non motor symptoms in Parkinson’s disease (Dr Sanjay Gangadharan).
Surgery and anaesthetics research highlights

Anaesthetics and Perioperative Medicine

The Department of Anaesthetics and Perioperative Medicine has participated in multinational Clinical Network Trial Network studies, including METS, PADDI and EpICCS. The anaesthetic department contributes to ‘Webairs’, an incident reporting system from the ANZ Tripartite Anaesthetic Data Committee.

The Anaesthetic Benchmarking System (ABS) – Obstetrics, a web-accessible data collection tool was rolled out across the state, and was supported by a $250 000 grant from the Health Improvement Unit (HIU – QH). Dr Godsall completed the Epidural Stability Study (awaiting publication) and a quantitative research paper “How Midwives Manage Rapid Preloading of IV Fluid Prior to Low Dose Epidurals” which has been published in the Journal of Advanced Nursing. Both projects were supported by Wishlist Grants. Dr Nellie Dick also received a Wishlist grant for a study entitled “Just in Time Training.”

Dr Rochelle Ryan is completing her PhD in the optimisation of surgical prophylaxis antibiotic dosing. She received the Gilbert Troup Prize at the Australian Society of Anaesthetists Congress in Perth for her oral presentation entitled ‘Does Cefazolin Prophylaxis During Elective Bariatric Surgery Achieve Therapeutic Antibiotic Concentrations in Plasma and Interstitial Fluid?’

Dr Richard Scolaro was the principal author of the national Australia New Zealand Anaesthetic Allergy Group Perioperative Anaphylaxis Investigation Guidelines. In addition, Dr Ewan Wright published ‘Exercising Patient-Centredness in Prehabilitation Programs in the European Journal of Surgical Oncology and Dr Stacey Swinkles published ‘Trainee Fatigue- Time for a Culture Change?’ in Anaesthesia. Julie Osgood represented the SCHHS at the ‘Pre-habilitation Symposium and CPET Workshop’ (PSH Australia 2017) at Peter MacCallum Centre in December, presenting data from the SCHHS Cardio-pulmonary Testing (CPX) Service.

General Surgery

Over the past decade many SET trainees, while rotating through the SCHHS, have undertaken the research component toward gaining Fellowship of the Royal Australasian College of Surgeons (FRACS). Additionally, the department has been successful for the past 10 consecutive years with abstracts accepted for the RACS Annual Scientific Conference. At the 86th RACS Annual Scientific Congress, SCHHS presenters included: Scott Cooper, Russell Manley and Suzanne Ryan. Abstracts were also accepted for the Provincial Surgeons of Australia, and RACS Annual Joint Academic and Surgical Research Society Meetings.

The department has assisted many junior doctors to successfully obtain a place in the general surgery training program and to complete the research component of Honours and post-graduate studies. During 2017, Lyndon Nofz completed his Master of Surgical Science studies through Edinburgh University, co-supervised by Sandy Grieve.

The department of General Surgery contributes to the Bi-National Colorectal Cancer Audit (BCCA), the Spleen Australia Registry and the Queensland Audit of Surgical Mortality (QASM). It is anticipated that in 2018, the SCHHS Trauma Service will contribute to the Australian Trauma Registry (ATR).

Orthopaedic Surgery

The Department of Orthopaedics undertook several clinical studies during 2017, including the SOFIE, CROSSFIRE, STEALTH, DOAC and ‘Surf related spinal injuries’ research. Gillian Puckeridge advanced her PhD studies through the generosity of a 2016 Wishlist RhD scholarship, and spent 0.5 FTE undertaking research during 2017. The department contributes to the Australian and New Zealand Hip Fracture Registry (ANZFR).

Persistent Pain Management Service

Our Persistent Pain Management Service has been the recipient of a grant for $187,708 from Clinical Excellence Division to host Queensland-wide implementation and evaluation of ‘Reboot Online’, a digital health intervention developed by the Clinical Research Unit for Anxiety and Depression (CRUfAD) and the Department of Pain Medicine, St Vincent’s Hospital Sydney. Reboot is a non-invasive treatment adjunct, education and self-management tool in one, offering patients and clinicians a non-pharmacological pain management option.

ePPOC (Electronic Persistent Pain Outcomes Collaboration)

Sunshine Coast Persistent Pain Management Service joined a national, ongoing collection of persistent pain outcomes data, based at University of Wollongong. Information gathered using a standard set of data items and assessment tools by specialist pain services throughout Australia and New Zealand has been used to develop a national benchmarking system for the pain sector, leading to better outcomes and best practice interventions for patients in chronic pain. The information also enables development of a coordinated approach to research into the management of pain in Australasia.

Vascular Surgery

The Department of Vascular Surgery (Jill ODonnell, Rebecca Magee and Pankaj Jha) continued their productive collaboration with the VasoActive Research Group at USC (five studies). An additional local study led by Pankaj Jha continued investigation into the role of thermometry in peripheral vascular disease. The vascular surgery department anticipate new collaborations with the Queensland Cardio-Vascular Research Network in 2018.
In 2017, research capability and outputs have continued to grow within Women’s and Families Service group.

Several research projects were completed and published and a number of new local investigator led studies commenced. The following studies commenced or continued in 2017:

**Maternity Services:**
- Enabling Safe and Close Care in Postnatal Environments [ESCaPE trial]
- Prophylactic intrapartum epidural intravenous fluid pre-loading: a description of current practice and associated outcomes
- Has team training in obstetric emergency resulted in better outcomes? (PROMPT study)
- Identifying the risk: a prospective cohort study examining postpartum haemorrhage in a regional Australian health service
- YES—Yoga ESpecially for Mums by Midwives: A pilot research study incorporating pregnancy yoga and childbirth education
- Facilitation of collaboration, capacity and change within the context of re-designing maternity services: an action research study.

**Neonatal Services:**
The neonatal services have continued to participate in multi-centre trials, especially in the areas of neuro-development and early intervention.
- Harnessing neuroplasticity to improve motor performance in infants with cerebral palsy—a pragmatic randomised controlled trial
-Magnesium sulphate at 30 to 34 weeks gestational age: Neuroprotection Trial—Multicentre RCT trial around Neuroprotection.
- National scoping review of admission criteria to the neonatal nursery
- Early Prediction of normal and mild neurodevelopmental outcomes for prioritisation of service delivery of very preterm, very low birthweight premature infants
- Randomised trial of rehabilitation very early in congenital hemiplegia.

**Paediatric Services:**
Investigator-led studies within paediatrics also grew, with two clinical nurses and two occupational therapists undertaking higher degrees by research:
- Assessment of a paediatric fluid guideline, and fluid prescribing education program: study protocol
- Health for our most vulnerable: innovation to enhance the health care of children in Out of Home Care
- Autonomous nurse led weaning of high flow nasal cannula oxygen in infants with bronchiolitis: a mixed methods inquiry (Michelle Elks, PhD candidate)
- Protective risk factors for sudden unexpected death in infancy (Roni Cole, PhD candidate)
- Allied health AHP role in paediatric OPD services (Julie Creen PhD candidate)
- Does a group parent information workshop impact on parental sense of competence and child quality of life as compared to individual hospital clinic consultation (Di Colllis, MSc candidate)

Most projects within the service group have had a strong inter-professional focus, and moving forward we are keen to invest in translational research and build our collaborative partnerships with USC and Griffith University. We are thankful for the continued financial support provided by Wishlist which funds many of our studies and we are looking to seek larger strategic funding for many seed funded projects in the future.

We are also pleased that the numbers of staff undertaking higher-degrees by research has continued to increase with paediatric nursing staff (2), midwives (5), allied health practitioners (4) and obstetricians (1) currently enrolled in PhD or MSc (research) degrees. This will dramatically enhance the capability of the Service Group to undertake both investigator-led and translational research within the unit and contribute to our ongoing culture of a research focussed service group.

Staff published a number of peer-reviewed journal articles, in areas such as Sudden Unexpected Death prevention, postpartum haemorrhage and innovative models of care.
Wishlist has directed more than $1.5 million towards local research projects to support Sunshine Coast Hospital and Health Service (SCHHS) over the past six years. The total amount Wishlist has invested in Research Project funding for research projects led by SCHHS Principal Investigators in 2017, was $105,876.

This was distributed across three grant categories; Novice $15,000; Early Career $30,000 and Experienced researchers $60,876. Wishlist also supports SCHHS staff with scholarships for education purposes and to attend conferences to present their research outcomes.

In 2017 Wishlist actively engaged with corporate and community supporters to fundraise for research, something previously not attempted by the foundation, and with truly impressive results. Hundreds of locals invested in these grants and are excited about the potential outcomes of the 2017 Wishlist Research Grant Round.

As the region’s local hospital foundation, it is Wishlist’s intention to grow their research investment in the future. Wishlist believes strongly that it is part of their role to help foster and develop the research culture of Sunshine Coast Hospital and Health Service. They plan to continue that commitment following a review of their annual research investment strategy.


Figure 2: Wishlist Research Grants to SCHHS Staff with Value per Category 2012-2017
# New projects for 2017

<table>
<thead>
<tr>
<th>SSA Approval Date</th>
<th>Short Title</th>
<th>Project Title</th>
<th>SCHHS Investigators</th>
</tr>
</thead>
<tbody>
<tr>
<td>15/1/17</td>
<td>Breast Cancer &amp; Primary Endocrine Therapy</td>
<td>Disease control and quality of life in women with breast cancer treated with primary endocrine therapy</td>
<td>Lyndon Nofz, Sandy Grieve</td>
</tr>
<tr>
<td>1/2/17</td>
<td>PHAEDRA</td>
<td>A Phase II trial of Durvalumab in Advanced Endometrial Cancer</td>
<td>Mary Azer, Allesandra Francesconi</td>
</tr>
<tr>
<td>7/2/17</td>
<td>DuQUA</td>
<td>Deepening our Understanding of Quality in Australia</td>
<td>Piotr Swiejkowski</td>
</tr>
<tr>
<td>8/2/17</td>
<td>Restore Brain</td>
<td>Randomized Efficacy and Safety Trial with Oral S 44819 after Recent Ischemic Cerebral Event</td>
<td>Rohan Grimley, Quentes de Vries</td>
</tr>
<tr>
<td>15/2/17</td>
<td>CSIRO Patient Flow</td>
<td>Emergency Department Patient Admissions Prediction Tool</td>
<td>Justin Boyle—External</td>
</tr>
<tr>
<td>23/2/17</td>
<td>ACP Chronology</td>
<td>An Analysis of the chronology of Advance Care Planning in relation to a Rapid Response Team call event</td>
<td>Wendy Pearse, John Endacott, Prem Ram, Suzanne Robson, Louise Welch, Clodagh Barwise-Smith</td>
</tr>
<tr>
<td>23/2/17</td>
<td>CAUGHT-CAD</td>
<td>Coronary Artery Calcium Score: Use to Guide Management of Hereditary Coronary Artery Disease</td>
<td>Tony Stanton</td>
</tr>
<tr>
<td>23/2/17</td>
<td>REDUCTION</td>
<td>Reducing the burden of dialysis Catheter Complications: A National approach</td>
<td>Nicholas Gray, Rathika Krishnasamy</td>
</tr>
<tr>
<td>3/3/17</td>
<td>REMOVAL-HD</td>
<td>A single arm, non-randomised device trial to assess the effect of the Theranova Dialyser on albumin and uraemic solutes in patients with Stage V chronic kidney disease requiring haemodialysis</td>
<td>Rathika Krishnasamy, Nicholas Grah, Peter Hollett, Kumar Mahadevan, Euan Noble</td>
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<tr>
<td>3/3/17</td>
<td>Pumps in Pregnancy (PIP)</td>
<td>Comparison of Sensor Augmented Insulin Pump (with Smartguard technology) with Non Augmented Pump Therapy and Multiple daily injections on Maternal and Neonatal Outcomes in Pregnancy in Women with Diabetes — a case control study</td>
<td>Sophie Poulter</td>
</tr>
<tr>
<td>11/3/17</td>
<td>NAT</td>
<td>Investigating the narrative abilities of adolescents who present to CYMHS with a primary anxiety disorder</td>
<td>Adele Wallis</td>
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<tr>
<td>11/3/17</td>
<td>PPTPIC</td>
<td>Patient and population preferences for intensive care: Integrating the person into decisions around care</td>
<td>John Moore</td>
</tr>
<tr>
<td>30/3/17</td>
<td>Identifying Barriers</td>
<td>Identifying barriers to change: the lived experience worker as a valued member of the mental health team</td>
<td>Louise Byrne—External</td>
</tr>
<tr>
<td>30/3/17</td>
<td>Lifestyle Intervention Evaluation</td>
<td>Lifestyle Intervention Program evaluation and follow up</td>
<td>Melissa Kruger</td>
</tr>
<tr>
<td>1/5/17</td>
<td>CADENCE-BZ</td>
<td>The efficacy of sodium benzoate as an adjunctive treatment in early psychosis</td>
<td>John McGrath, Chris Lilley, Krystal Dixon</td>
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<tr>
<td>1/5/17</td>
<td>RRT Calls</td>
<td>Outcomes of rapid response team calls in patients with documented treatment limitations - Is our management providing benefit or causing harm?</td>
<td>Victoria Campbell, Chris Anstey</td>
</tr>
<tr>
<td>2/5/17</td>
<td>Donor Family Study (Wave 2, 3 and 4)</td>
<td>National study of family experiences of organ and tissue donation</td>
<td>Chris Anstey, Danielle Upson</td>
</tr>
<tr>
<td>SSA Approval Date</td>
<td>Short Title</td>
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<tr>
<td>8/5/17</td>
<td>CRT-OPT</td>
<td>A randomized trial of benefit and cost-effectiveness of Cardiac Resynchronization Therapy (CRT) optimization in heart failure.</td>
<td>Tony Stanton</td>
</tr>
<tr>
<td>8/5/17</td>
<td>Building capacity for end of life care outside specialist palliative care settings</td>
<td>John Endacott, Wendy Pearse, Sarah Goodman, Florin Oprescu, Elizabeth Statham</td>
<td></td>
</tr>
<tr>
<td>8/5/17</td>
<td>Gestational diabetes management</td>
<td>Examining the management of gestational diabetes mellitus</td>
<td>Nina Meloncilli, Susan de Jersey, Adrian Barnett</td>
</tr>
<tr>
<td>8/5/17</td>
<td>The Utility of MRI in Diagnosing Acute Appendicitis During Pregnancy</td>
<td>The Utility of Magnetic Resonance Imaging in the Diagnosis of Acute Appendicitis During Pregnancy</td>
<td>Beau Mulder</td>
</tr>
<tr>
<td>8/5/17</td>
<td>Synergy II</td>
<td>SYNbiotics: Easing Renal failure by improving Gut microbiology II</td>
<td>Tony Stanton, Rathika Krishnasamy, Nicholas Gray, Peter Hollett, Kumar Mahadevan, Euan Noble, Victoria Campbell</td>
</tr>
<tr>
<td>8/5/17</td>
<td>Shift Work Study</td>
<td>Is there a link between clinical errors and emergency nursing shift patterns?</td>
<td>Kym Roberts, Jessica Riorian, Sarah Cochrane, Ogilvie Thom, Julia Hocking, Tammy Doyle</td>
</tr>
<tr>
<td>31/5/17</td>
<td>ADVOCATE</td>
<td>A Randomized, Double-Blind, Placebo-Controlled, Phase 3 Study to Evaluate the Safety and Efficacy of CCX168 (Avacopan) in Patients with Anti-Neutrophil Cytoplasmic Antibody (ANCA)-Associated Vasculitis Treated Concomitantly with Rituximab or Cyclophosphamide/Azathioprine</td>
<td>Euon Noble, Nicholas Gray, Peter Holett, Rathika Krishnasamy, Kumar Mahadevan, Victoria Campbell, Jane Waugh</td>
</tr>
<tr>
<td>9/6/17</td>
<td>CANSTEM 303</td>
<td>A Phase III Study of BBI-608 in combination with 5-Fluorouracil, Leucovorin, Irinotecan (FOLFIRI) in Adult Patients with Previously Treated Metastatic Colorectal Cancer (CRC)</td>
<td>Alessandra Francesconi</td>
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<tr>
<td>14/6/17</td>
<td>Pneumo Inspire</td>
<td>International, multi centre, prospective, observational, cohort study of nosocomial pneumonia in intensive care</td>
<td>Michael Putt, Mark Landy</td>
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<tr>
<td>14/6/17</td>
<td>EpiCCs</td>
<td>Epidemiology of Critical Care provision after Surgery - EpiCCS- Australasia</td>
<td>Joel Matthews</td>
</tr>
<tr>
<td>19/6/17</td>
<td>CVD</td>
<td>Total Cardiovascular Disease Risk (CVD) Assessments: A Survey on Screening in General Practice</td>
<td>Anita Smith</td>
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<tr>
<td>19/6/17</td>
<td>REACH</td>
<td>Randomised trial of Rehabilitation very EARly in Congenital Hemiplegia</td>
<td>Roslyn Boyd, Rebecca Caesar</td>
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<tr>
<td>29/6/17</td>
<td>Epidemiology of Queensland parechovirus infections</td>
<td>Parechovirus infections in Queensland children: epidemiology, strain diversity, management and outcomes 2010 - 2018</td>
<td>Claudia O'Rourke</td>
</tr>
</tbody>
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## New projects for 2017

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<tr>
<td>20/7/17</td>
<td>GUPPIE Study</td>
<td>Aspirate Study – using gastric ultrasound to assess gastric residual volume and aspiration risk prior to extubation</td>
<td>Stephen O’Donoghue</td>
</tr>
<tr>
<td>20/7/17</td>
<td>Melanoma and Vitamin D</td>
<td>Is vitamin D status at time of melanoma diagnosis associated with stage of tumour</td>
<td>Leith Banney</td>
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<tr>
<td>29/7/17</td>
<td></td>
<td>Assessment of the effectiveness of clinical notes, from the clinician's perspective</td>
<td>Stella Rowlands, Steven Coverdale, Amina Tariq, Sue Walker, Maryann Wood</td>
</tr>
<tr>
<td>29/7/17</td>
<td>Attitudes &amp; Perceptions of acupuncture / acupressure in Perioperative Care</td>
<td>Australian doctors and nurses’ attitudes and perceptions of acupuncture and acupressure practice in perioperative care - A National Survey</td>
<td>Morne Terblanche</td>
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<tr>
<td>29/7/17</td>
<td>ACCidHF</td>
<td>Assessment of the Concentration of Citrate during Haemofiltration</td>
<td>Chris Anstey, John Moore, Victoria Campbell, Lauren Murray</td>
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<tr>
<td>29/7/17</td>
<td>Blunt Trauma Triangle</td>
<td>Blunt Trauma Triangle</td>
<td>Nicolas Copertino, David Grieve</td>
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<tr>
<td>29/7/17</td>
<td>Junior doctors and work-family balance</td>
<td>Junior doctors and work-family balance</td>
<td>Ianthe Mills</td>
</tr>
<tr>
<td>29/7/17</td>
<td>DAEOP Study</td>
<td>DOAC; Assessment for Emergency Orthopaedic Surgery</td>
<td>Gillian Puckeridge, Morne Terblance, James Tunggal, Tawona Ohlakama, Mostyn Yong</td>
</tr>
<tr>
<td>4/8/17</td>
<td>Training needs for ACP</td>
<td>A survey of training needs for health professionals to embed Advance Care Planning in clinical areas</td>
<td>Wendy Pearse, John Endacott, Prem Ram, Suzanne Robinson, Louise Welch, Clodagh Barwise-Smith</td>
</tr>
<tr>
<td>14/8/17</td>
<td>BEEPRS-AQE</td>
<td>Building efficient and equitable pathways to and through rehabilitation in stroke: A qualitative exploration</td>
<td>Rohan Grimley, Ingrid Rosbergen</td>
</tr>
<tr>
<td>14/8/17</td>
<td>Bortezomib in MM evaluation</td>
<td>Evaluation of bortezomib in Queensland public hospitals for the treatment of multiple myeloma</td>
<td>Helen Weston, Ross Tomlinson</td>
</tr>
<tr>
<td>28/8/17</td>
<td>ESCCaPE Trial</td>
<td>Enabling Safe and Close Care in Postnatal Environments: A Pilot</td>
<td>Lauren Kearney, Cheryl Rutherford, Kendall George</td>
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<tr>
<td>30/8/17</td>
<td>NIVORAD</td>
<td>A randomised phase 2 trial of nivolumab and stereotactic ablative body radiotherapy in advanced non-small cell lung cancer progressing after first or second line chemotherapy</td>
<td>Jeremy Long, Peter Manders</td>
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<tr>
<td>30/8/17</td>
<td>EXERTION</td>
<td>EXERTION: the EXERCise stress Test colaborATION</td>
<td>Tony Stanton</td>
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<tr>
<td>1/9/17</td>
<td>Diet quality &amp; eating behaviours of CCU residents</td>
<td>Diet quality and eating behaviours of severely mentally ill patients residing in community care units</td>
<td>Ebony Verdouw, Carla Van Heerdan</td>
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<tr>
<td>29/9/17</td>
<td>Propofol on Trial for headaches in the Emergency Department Setting</td>
<td>A proof of concept study assessing the safety and efficacy of sub-anaesthetic dosing of intravenous propofol for the treatment of refractory migraine-like headaches in the emergency department</td>
<td>Ogilvie Thom, Julia Hocking</td>
</tr>
</tbody>
</table>
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<thead>
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<tbody>
<tr>
<td>5/10/17</td>
<td>Infective endocarditis in the Sunshine Coast Hospital and Health Service</td>
<td>Infective endocarditis in a hospital without Cardiac surgical facility - retrospective and prospective review over a 10 year period</td>
<td>Shradha Subedi, Kim Greaves, David Sowden</td>
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<tr>
<td>16/10/17</td>
<td>PADDI Trial</td>
<td>The Perioperative ADministration of Dexamethasone and Infection</td>
<td>Nicola Beauchamp, Guy Godsall, Rochelle Ryan</td>
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<tr>
<td>25/10/17</td>
<td>JIT</td>
<td>Just-in-time-training (JIT) to improve proficiency and confidence in anaesthetists when performing nasotracheal intubation. A randomised controlled pilot study</td>
<td>Nellie Dick</td>
</tr>
<tr>
<td>20/11/17</td>
<td>SPIRIT</td>
<td>A Phase 2a, Randomised, Double-Blind, Placebo-Controlled 42-Day Treatment Study to Evaluate the Effect of DNS-3379 on Upper Extremity Motor Function Following Ischemic Stroke</td>
<td>Rohan Grimley, Quentes de Vries</td>
</tr>
<tr>
<td>6/12/17</td>
<td>Evaluation of SOC</td>
<td>Compilation and evaluation of statement of choices documents</td>
<td>Louise Welch</td>
</tr>
<tr>
<td>7/12/17</td>
<td>NASH</td>
<td>747-117: A Phase 1, Double-Blind, Randomized, Placebo-Controlled Study to Evaluate Safety, Pharmacokinetics, and Pharmacodynamics of Obeticholic Acid in Subjects with Nonalcoholic Steatohepatitis with Fibrosis (NASH)</td>
<td>James O’Beirne, Jonathan Mitchell</td>
</tr>
<tr>
<td>14/12/17</td>
<td>Together in Mind</td>
<td>An investigation of a collaborative interagency service model of an intensive day program for mothers with a perinatal mental illness and their infant children under 12 months of age</td>
<td>Therese De Dassel</td>
</tr>
<tr>
<td>14/12/17</td>
<td>TEXAIS</td>
<td>A multicentre, randomised controlled Trial of Exenatide versus standard care in Acute Ischemic Stroke (TEXAIS)</td>
<td>Rohan Grimley, Quentes de Vries</td>
</tr>
<tr>
<td>19/12/17</td>
<td>Hep B Vaccine Correlates</td>
<td>Identification of factors influencing Hepatitis B Vaccine Hesitancy at birth</td>
<td>Maureen Tan, Tom Yap</td>
</tr>
<tr>
<td>19/12/17</td>
<td>PRAN-16-52</td>
<td>A phase III, double-blind, placebo-controlled, multicentre, randomized study of pracinostat in combination with azacitidine in patients 18 years with newly diagnosed acute myeloid leukemia unfit for standard induction chemotherapy (PRAN-16-52)</td>
<td>Anthony Powell, Helen Weston</td>
</tr>
<tr>
<td>19/12/17</td>
<td>AU support &amp; N/MUM clinical leadership</td>
<td>The impact of administrative support on clinical leadership of Nurse Unit Managers / Midwife Unit Managers: A multi-method study</td>
<td>May El Haddad, Amy Holmes, Lorraine Thompson, Graham Wilkinson, Annette Faithful-Byrne</td>
</tr>
<tr>
<td>19/12/17</td>
<td>SCIT Trial at CCU</td>
<td>Can individuals currently residing in a Queensland Health Community Care Unit (CCU) and diagnosed with a severe enduring mental illness (SEMI) improve their social functioning with the introduction of Social Cognition Interaction Training (SCIT)</td>
<td>Michael Bradburn - External</td>
</tr>
</tbody>
</table>
Journal articles and abstracts

Journal articles and abstracts


Journal articles and abstracts


Journal articles and abstracts


Journal articles and abstracts


73. Hsing, Y.E. and J. Walker, Bilateral interstitial keratitis with anterior stromal infiltrates associated with reactive arthritis. BMJ Case Reports, 2017. 06: p. 06.


Journal articles and abstracts


Journal articles and abstracts


126. Rosbergen, I.C.M., S.G. Brauer, S. Fitzhenry, R.S. Grimley, and K.S. Hayward, Qualitative investigation of the perceptions and experiences of nursing and allied health professionals involved in the implementation of an enriched environment in an Australian acute stroke unit. BMJ Open, 2017. 7(12).


Journal articles and abstracts


