

Research Review

July 2015 to December 2016



Public availability statement

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Content from this review should be attributed as: Gold Coast Hospital and Health Service Research Review July 2015 to December 2016
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ISSN 2202-4530

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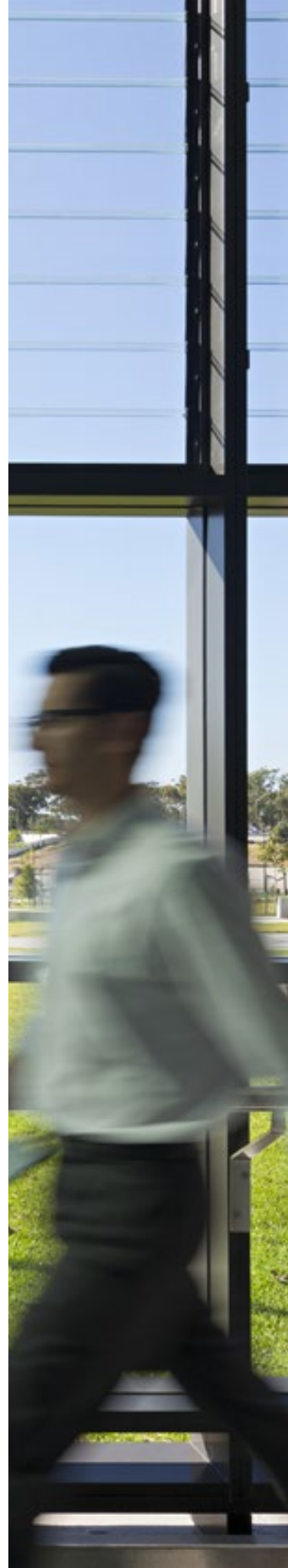
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Main Entrance



From the Chief Executive



Mr Ron Calvert
Chief Executive

Our long-standing commitment to fostering world class research, based on a strong relationship with the tertiary sector, is providing clear results through improved patient care and health outcomes.

Integrated Care, developed by the Centre for Health Innovation (the Centre), a partnership between Gold Coast Health and Griffith University, is redefining the way health care is delivered across the region for patients at risk of hospitalisation or poor outcomes associated with chronic disease. The integrated model of care places the patient at the centre of the health care journey and takes a holistic view that care should be co-designed between patients and families alongside their care providers.

The Centre is also taking a leadership role in identifying, evaluating and commercialising new health innovations and products arising out of research and development in the Menzies Health Institute Queensland. This important work has a focus on developing healthy communities through health and medical research.

Innovative programs like this are helping to attract the best and brightest medical staff to the Gold Coast, particularly those keen to collaborate with top academics on cutting-edge work. Research is also integral to achieving our vision of being recognised for excellence and delivery of world class health care.

The Emergency Department (ED) and Intensive Care Unit (ICU) are two critical areas that have continued to build on their strategic linkages with organisations and international partners to grow their research projects and improve the quality and number of grants received and publications produced - for the ultimate benefit of patients and the health service. The investment in several joint appointments between Gold Coast Health and academic partners Griffith and Bond Universities has been integral to achieving outstanding research outcomes.

Research within Gold Coast Health is an active part of our service with many departments striving to improve their research and development activities as detailed in this review. Our strong and sustained focus on research will reap further benefits, with Gold Coast University Hospital at the heart of the emerging Health and Knowledge Precinct. Following the staging of the Commonwealth Games on the Gold Coast in April 2018, the Athletes' Village will be transformed into a hub for innovation and research in healthcare. The precinct will deliver better health services and outcomes for our patients and the Gold Coast Community, and you can be sure it will feature in future research reviews from Gold Coast Health.

In the interim, I invite you to learn more about our achievements in this review.

Research Committee of the Board



Prof Allan Cripps AO
Chair

Ensuring that active research is part of core business at Gold Coast Health encourages all professionals to question and rationalise clinical management and creates a culture of continuous learning and development. A research-active environment also leads to more diverse treatment options for patients, which can lead to better health outcomes. As such, continuing to develop Gold Coast Health's capacity for quality research is a key priority of the Gold Coast Health Board.

Research at Gold Coast Health is guided by five strategic goals:

- Embedding research as core business
- Building research capacity
- Providing effective governance and support
- Strengthening partnerships
- Translating research to care.

Gold Coast Health has developed a range of initiatives to increase staff engagement in research. This includes a 12 week research training program entitled, 'Stimulating Action in Research', delivery of evidence based practice and systematic review workshops through the Evidence Based Practice Unit, and engagement of staff in facilitated journal clubs. These activities have given rise to a Research Training Framework which will help to guide the delivery of future training. In addition, the inaugural research grant scheme provided the opportunity for both novice and experienced researchers to engage in and to expand their research activity.

During the 18 months between July 2015 and December 2016, Gold Coast Health approved 219 new research projects, the majority of which were investigator-led projects. An audit of research governance activities has led to a range of improvements in the processing of research applications, including the introduction of a clinical research monitoring program. This program will improve the quality of research undertaken across the health service.

In addition to supporting a culture of active research, a further Board priority has been developing strong collaborations with academic partners. Representatives from a number of organisations – including Griffith University, Bond University, Southern Cross University, Gold Coast City Council and the Primary Health Network, have worked collectively to develop a National Health and Medical Research Council (NHMRC) submission to establish the Gold Coast Advanced Health Research and Translation Centre. All participating organisations recognise the need to work together to develop an integrated approach to clinical research, training, education and service delivery.

There are great opportunities for collaborative research in our region and Gold Coast Health researchers have the potential to effect positive change, both in our patients' health outcomes and their quality of life.

The Research Committee advises the Gold Coast Health Board in relation to building long-term collaborations in research and enhancing clinical service delivery founded on sustainable and trusting partnerships. These research programs are facilitated by a shared collective vision with clear benefits to all parties which will help to position the Gold Coast Health and Knowledge Precinct as a world class health precinct of national and international significance.

Research Committee of the Board Members

Professor Allan Cripps AO has strong academic expertise in health. Professor Cripps AO was the Pro Vice Chancellor (Health) at Griffith University for 13 years (until August 2016), and has served as a member of many academic and health industry boards and advisory committees.

In addition to Professor Cripps AO, the Research Committee of the Board consists of:



Prof Judy Searle

Professor Judy Searle is a Fellow of The Royal Australian and New Zealand College of Obstetricians and Gynaecologists. She started her career as a medical specialist before moving primarily into leadership and management positions in academia both in Australia and the UK, including roles at Griffith University's School of Medicine and as a member of the Academic Corporate Governance Board.



Prof Helen Chenery

Professor Helen Chenery is Executive Dean of the Faculty of Health Sciences and Medicine at Bond University. Professor Chenery is a leading clinical researcher, with more than 130 peer reviewed publications and substantial grant income.



Dr Andrew Weissenberger

Dr Andrew Weissenberger is Practice Principal at Hope Island Medical Centre and has been in the medical profession for more than two decades. His interests include aged care and chronic disease management.



Clinical Governance, Education and Research



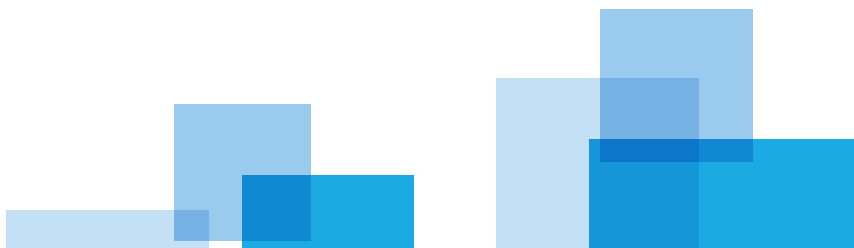
Prof Marianne Vonau OAM
Executive Director

Moving our organisation towards a culture of research has been a primary focus of Gold Coast Health over the past 18 months from July 2015 to December 2016. This has included the establishment of a new research structure incorporating a Strategic Research Advisory Committee and a Research Council to help drive strategic and operational aspects of research across the health service. These committees have worked closely with our Office for Research Governance and Development (ORGD) to develop and implement a range of initiatives that has resulted in an increase in research outputs.

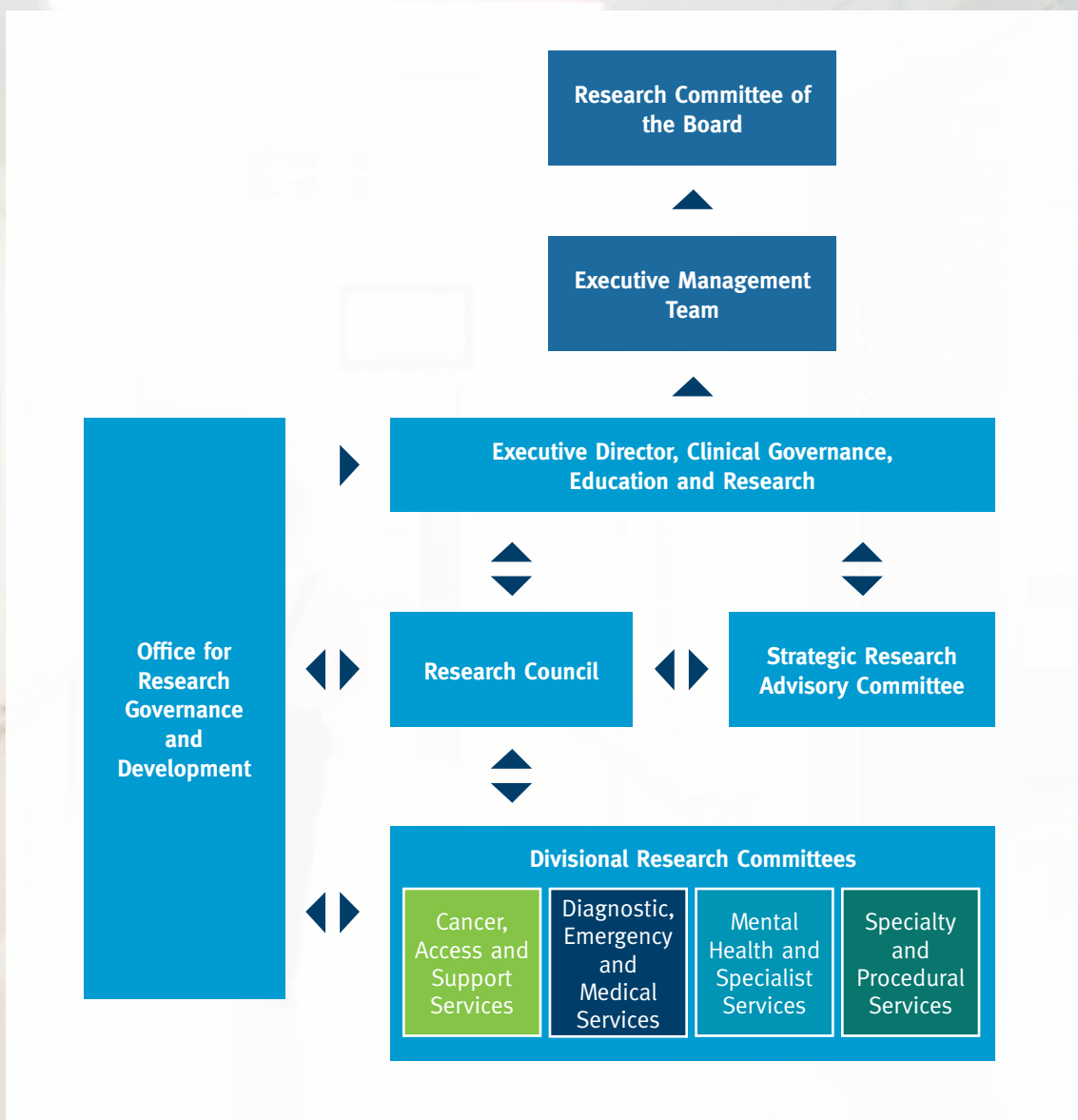
Highlights have included the Research Network Evening and the Research Showcase, both held in November 2016. The Network Evening, led by the Research Council, provided an opportunity for clinicians to discuss their research work with academic colleagues for the purpose of developing new research partnerships. At the Research Showcase, more than 130 clinicians and researchers were able to hear the results of many of these research projects and the impact their work has had within the health service. These two events gave me great confidence that we are well on the path to a robust culture of research.

In the past 18 months, the Research Training Framework has been developed to provide novice and expert researchers with support as they continue to develop their research expertise. This framework will focus on the areas of evidence-based practice, knowledge translation and primary research with education, workshops and support provided by key experts.

Establishment of the Gold Coast Alliance for Health Research and Translation is an exciting development for Gold Coast Health and its partners, including Griffith, Bond and Southern Cross Universities and the Primary Health Network. The alliance is now moving forward to progress and prepare opportunities that will improve health care for the community of the Gold Coast and you can expect to learn of more updates in subsequent Research Reviews.



To improve transparency of research activity across the health service and develop and drive an organisation-wide research agenda, Gold Coast Health has operational and strategic governing bodies at all levels of the organisation that include research-active staff in all departments:



Research Showcase

The inaugural Gold Coast Health Research Showcase was held on Wednesday 30 November 2016. Attended by more than 130 participants, the showcase gave an exciting overview of the extent and variety of research undertaken by Gold Coast Health researchers alongside partners, Griffith University and Bond University.

The Research Showcase was officially launched by Executive Director for Clinical Governance, Education and Research, Professor Marianne Vonau AOM. Following the opening, esteemed paediatric infectious diseases physician Professor Keith Grimwood delivered the keynote address where he spoke about his experience as a clinician researcher, relaying the lessons learned throughout his career.

A total of 47 abstracts were presented and 15 posters exhibited from Gold Coast Health's allied health professionals, research nurses, medical staff, medical students and research assistants. A notable highlight of the event was the Q&A panel discussion 'Insights into a research career' which was moderated by Professor Sharon Mickan. Panel members included Professor Chris Stapelberg, Professor Nigel McMillan, Dr Georgia Tobiano and Ms Vanessa Druett, who each brought a unique perspective and insight into a career in research.

The high level of engagement at the showcase reinforced the importance of research at Gold Coast Health and highlighted the integration of research efforts that stretch across the organisation and incorporate several disciplines.



Congratulations to the winners:



Best Showcase Presentation

Dr Amy Johnston, Research Fellow, Gold Coast Health and Griffith University

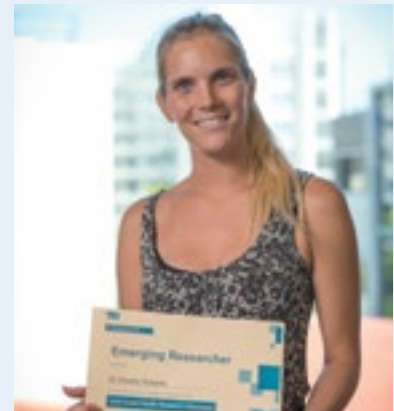
The Effect of Immediate Administration of Antibiotics in Patients with Sepsis in Tertiary Care: A Systematic Review and Meta-Analysis



Best Showcase Poster

Dr Cheng Jun Siew, General Medicine Advanced Trainee, Gold Coast Health and Griffith University

Prognostic Impact of Neutrophil-Lymphocyte Count Ratio in Respiratory Virus Infection

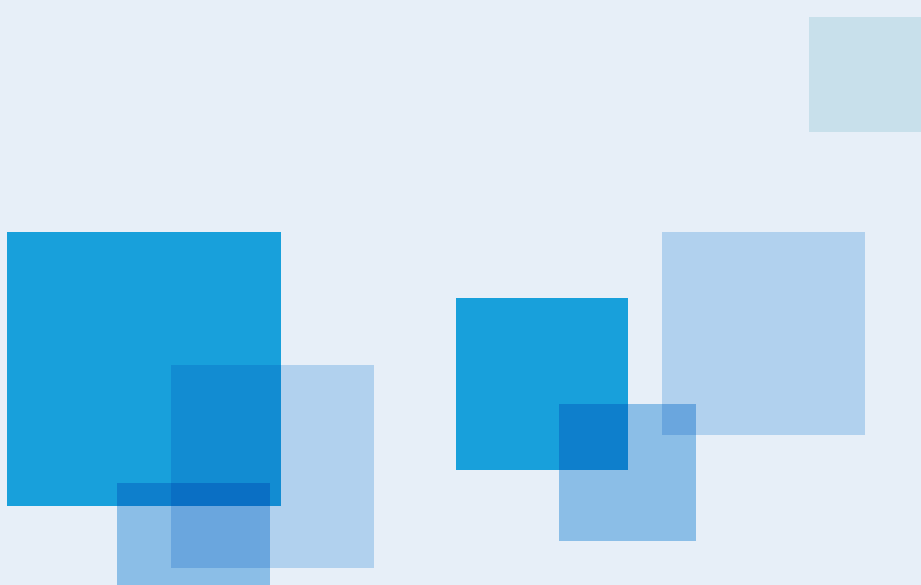


Emerging Researcher

Dr Shelley Roberts, Research Fellow, Gold Coast Health and Griffith University

Partnerships to Improve Nutrition in Hospitalised Patients: The PARTICIPATE knowledge translation study

Gold Coast Health would like to thank Research Showcase sponsor **Elsevier Australia** which supplied the awards presented.



Office for Research Governance and Development



Dr Greta Ridley
Acting Director

Gold Coast Health is becoming a world class provider of public healthcare services through innovative and patient-centred care. Comprising more than 20 facilities, Gold Coast Health delivers a broad range of secondary and tertiary health services to a population of more than 560,000 people in the Gold Coast region, in addition to some residents of northern New South Wales.

The service provides care at the Gold Coast University Hospital, Robina Hospital and the Southport and Robina Health precincts. Key primary services are also offered from suburban settings such as community child health clinics and oral health services for adults and children.

Research is considered one of the strategic enablers to assist Gold Coast Health to deliver the organisation's strategic objectives:

- Ensure patients have equal and timely access to health services

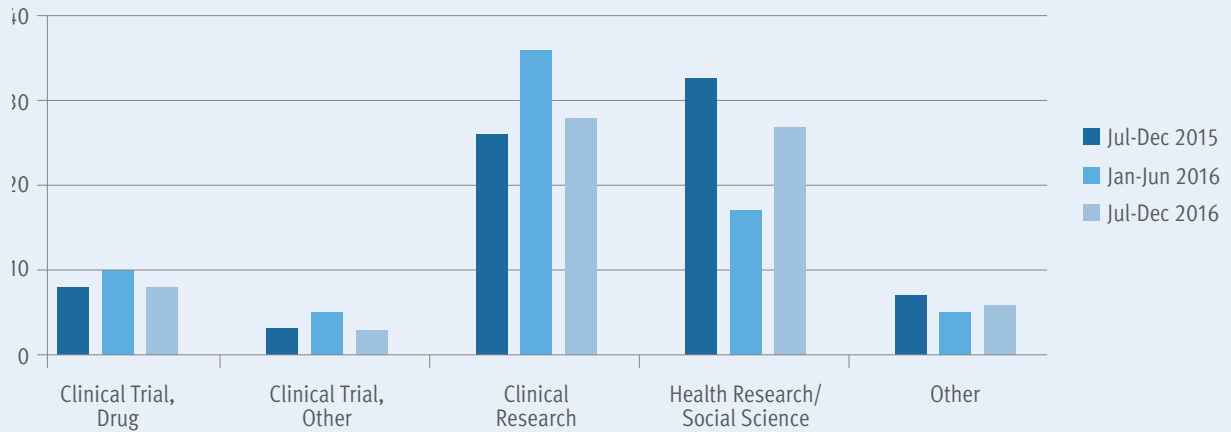
- Deliver safe, sustainable and high quality services through coordinated care and continuous improvement of our health care knowledge
- Support a healthy Gold Coast community through establishing partnerships with General Practitioners and health service providers to deliver continued quality of care in the community and reduce the rate of avoidable hospital admissions.

The Office for Research Governance and Development is committed to increasing the capacity, capability and culture of Gold Coast Health staff to perform quality research.

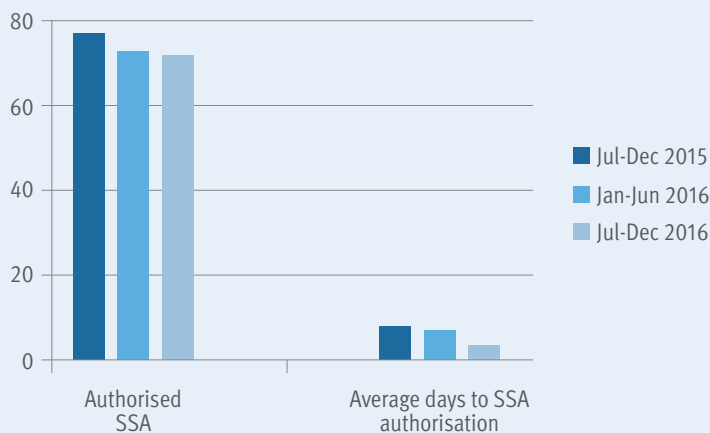


Office for Research Governance and Development

Our performance



Gold Coast Health approved studies by study type, Jul 2015–Dec 2016



Gold Coast Health Site Specific Application (SSA) authorisations, Jul 2015–Dec 2016

Gold Coast Health Grant Summary, Jul 2015–Dec 2016

Project	Type	Source	Number of projects	Amount
Funded	Collaborative	Commercial	1	\$18,148
		Non-Commercial	47	\$2,199,424
	Non-Collaborative	Commercial	16	\$1,654,735
		Non-Commercial	5	\$73,552
Non-Funded	Collaborative	Non-Commercial	81	
	Non-Collaborative	Non-Commercial	69	
Grand Total			219	\$3,945,859



Research Collaborations

Gold Coast Health researchers have established a number of important collaborations with institutions across Australia and the world. These collaborations foster the development of research and contribute to improved health outcomes.

National

Australian Catholic University
Australian eHealth Research Centre
Avondale College of Higher Education
Board of Vascular Surgery Bond University
Centre for Research in Evidence Based Practice
Centre of Perinatal Excellence City of Gold Coast
CSIRO
CSL Australia Flinders University
Gold Coast Primary Health Network
Griffith University
Immunisation Coalition James Cook University
Kolling Institute Lives Lived Well
Mater Children's Hospital

Mater Medical Research Institute
Menzies Health Institute Queensland
Monash University
Murdoch University
Notre Dame University
Princess Alexandra Hospital
Queensland Ambulance Service
Queensland Police Service
Queensland University of Technology
Royal Australasian College of Surgeons
Royal Brisbane and Women's Hospital
Sax Institute
South Australian Health and Medical Research Institute
Southern Cross University

Sunshine Coast Hospital and Health Service
The Alfred Hospital
The George Institute for Global Health
The Society of Hospital Pharmacists of Australia
The University of Adelaide
The University of Melbourne
The University of Queensland
The University of Sydney
Townsville Hospital
University of Canberra
University of Tasmania
University of the Sunshine Coast
Western Sydney University

International

Australia and New Zealand Intensive Care Society (ANZICS)
China National Health and Family Planning Commission
Columbia University, USA
Fresenius University of Applied Sciences, Germany
Karolinska Institute, Sweden
Kellogg College, UK
Medical Research Institute of New Zealand

New Zealand College of Midwives
Paediatric Research in Emergency Departments International Collaborative
Peking University, China
Queen's University, Canada
Royal College of Midwives, UK
St Michael's Hospital, Canada
State University of New York, USA
Sunnybrook Hospital, Canada

ROTEM® International (Haemoview Diagnostics, Aust.)
The University of Auckland, New Zealand
University of Gothenberg, Sweden
University of Oxford, UK
University of the West of Scotland
University of Wales, UK
Uppsala University, Sweden



Strategic Research Advisory Committee



Prof Sharon Mickan
Chair

The Strategic Research Advisory Committee (SRAC) is the peak advisory body for research at Gold Coast Health. The purpose of the SRAC is to develop and guide a sustainable research strategy that grows research capacity with academic and corporate partnerships, with a focus to improve clinical care and outcomes for patients and their families.

The Strategic Research Advisory Committee was instrumental in developing a submission to the National Health and Medical Research Council (NHMRC) for an Advanced Health Research and Translation Centre in 2016 and is continuing to sponsor a Gold Coast Alliance for Health Research and Translation. There is recognition that it takes time to develop mutually beneficial partnerships and work is continuing to identify and develop research strengths and outstanding clinical questions as the basis for these collaborations.

This committee will seek to conceptualise and document pipelines of research from the laboratory through clinical trials and observational studies, to improvements in patient care and policy. To do this, the principles of implementation science are crucial in facilitating the translation of research outcomes into clinical practice and community benefits.

Strategic Research Advisory Committee Members

Chair	Prof Sharon Mickan	Professor of Allied Health, GCH and Griffith University
Members	Prof Randy Bindra (Inaugural Chair)	Professor of Orthopaedics, GCH and Griffith University
	Dr Anita Bamford-Wade	Professor of Nursing and Midwifery, GCH and Griffith University
	Prof David Ellwood	Director of Maternal-Fetal Medicine; Professor of Obstetrics and Gynaecology, GCH and Griffith University
	Prof Paul Glasziou	Professor of Evidence-Based Medicine and Director, Centre of Research and Evidence Based Practice, Bond University
	Prof Keith Grimwood	Pre-eminent Senior Staff Specialist, Paediatric Infectious Diseases Professor of Infectious Diseases, GCH and Griffith University
	Prof Andrea Marshall	Professor of Acute and Complex Care Nursing, GCH and Griffith University
	Prof Sheena Riley	Pro-Vice Chancellor (Health), Griffith University
	Prof Marianne Vonau	Executive Director, Clinical Governance, Education and Research, GCH
	Prof Suzanne Chambers	Director, Menzies Health Institute, Queensland
	Dr Greta Ridley	A/Director, Office for Research Governance and Development, GCH
	Ms Michelle Plant	Secretariat, ORGD
	Ms Marie Taylor	Secretariat, ORGD

Research Council



Prof Andrea Marshall
Chair

The Gold Coast Health Research Council was established in July 2016 to work alongside the ORGD to deliver the Gold Coast Health research strategy. Through interdisciplinary membership and representation from each of the four divisions of the health service, we have established a strong network of clinician researchers who promote and support research throughout Gold Coast Health. Important initiatives such as Research Network Evenings, the Research Showcase and the Research Grants Scheme were supported through the work of the Research Council.

In 2017 we will continue to work alongside the ORGD, the newly established Strategic Research Advisory Committee and divisional research committees to grow a culture of research and build research capacity within Gold Coast Health.

I would like to thank all Council members for their hard work and enthusiasm during the last year, in particular the Deputy Chair, Associate Professor Martin Wullschleger. I would also like to acknowledge the enormous contribution made by the team within the ORGD. Led by Dr Greta Ridley, this group has been the driving force behind many of the research initiatives of which the organisation can be proud. Their dedication and enthusiasm to building research at Gold Coast Health is evident in the achievements highlighted in this review.



Research Council Members

Chair	Prof Andrea Marshall	Deputy Chair	A/Prof Martin Wullschleger
Members	Dr Leonie Clancy	Ms Janine Matus	Mr Alan Spencer
	Prof Julia Crilly	Emeritus Prof Anne McMurray	Prof Chris Stapelberg
	Mr Jacob Darch	Dr Christy Noble	Dr Nevin Taylor
	Ms Rachael Dunning	Ms Susanne Pearce	Dr Francois Tudor
	Prof Jennifer Fenwick	Ms Sharon Quinlan	Dr Kelly Weir
	Dr Neeraj Gill	A/Prof Jasotha Sanmugarajah	Dr Rachel Wenke
	Dr Sneha John	Dr Doug Shelton	Dr James Winearls
	ORGD	Dr Greta Ridley	Ms Michelle Plant (Secretariat)

Human Research Ethics Committee



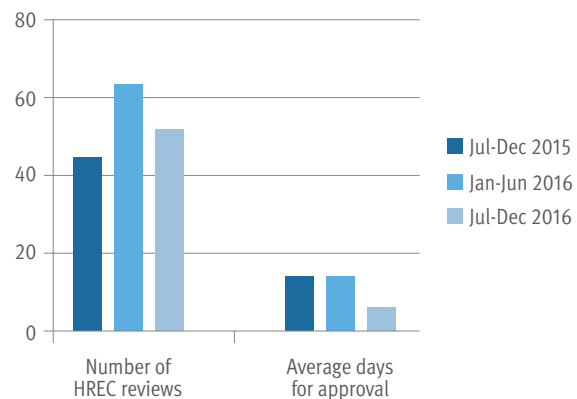
Emeritus Prof Drew Nesdale
Chair

The Human Research Ethics Committee (HREC) was established to evaluate the ethics of research involving staff and/or patients at Gold Coast Health. The committee operates in accordance with the National Health and Medical Research Council's (NHMRC) *Statement on Ethical Conduct in Human Research (2007)* and Queensland's Health Innovation, Investment and Research Office (HIIRO).

The HREC is chaired by Emeritus Professor Drew Nesdale with three deputy chairs; Dr Greg Comadira, Brett Jackson and Associate Professor Roselyn Rose'Meyer. It has a committee membership of 19 constituted in accordance with NHMRC requirements.

During the July 2015 to December 2016 period, the HREC developed a more efficient and timely research reviewing process. This incorporates a parallel review process in which research projects simultaneously commence ethical review alongside the review of research governance. Categorising applications as 1. quality improvement or audit, 2. low or negligible risk or 3. medium or higher risk, has resulted in improvements in approval times with only medium or high-risk applications requiring full ethical review. A summary of the research projects reviewed by the HREC during the 18 months under consideration is provided in the adjoining figures.

Several members chose to conclude their memberships of the HREC at the close of 2016, including Brett Jackson, Dr Bajee Krishna Sriram, Associate Professor Kate Shacklock, Andrew Naylor and Professor Jennifer Fenwick. Given that these contributions are typically voluntary and made over several years, the HREC and the ORGD wish to express gratitude and appreciation for these efforts.



Total number and average number days for HREC approval

Total HREC submissions

Jul 2015–Dec 2016	
Total HREC submissions	265
Not requiring review	74
Others (withdrawn/not approved)	30
Approvals	161
% multi-site applications	9%
% low risk applications	60%



Human Research Ethics Committee Members at December 2016

Category A: Chairperson	Emeritus Prof Drew Nesdale	Professor of Psychology
Category B: Layperson with no affiliation with the institution	Ms Vicki Engel	Layperson and volunteer
	Mr Robert Lee	Layperson
Category C: Knowledge of, and current experience in, the professional care, counselling or treatment of people	Prof Randipsingh Bindra	Professor of Orthopaedic Surgery
	Ms Yvonne Elliott-Kemp	Rehabilitation Services Director
	Dr Amy Johnston	Research Fellow, Emergency Care
	Dr Jagadeesh Kurtkoti	Staff Specialist, Renal Dialysis
	Ms Jillian Mohoney	Allied Health Workforce Development Officer
	Ms Hazel Bassett	Team Leader, Homeless Health Outreach Team
	Dr Polly Spencer	Staff Specialist, Anaesthetist
Category D: Performs a pastoral care role in community	Mr Brett Jackson	Deputy Chair, A/Director Medical Imaging
	Father John Pinson	Honorary Priest Assistant, Anglican Parish of Southport
Category E: Lawyer, where possible who is not engaged to advise the institution	Mr Jacob Owen	Lawyer
Category F: Current research experience that is relevant to research proposals to be considered at the meetings they attend	Dr Greg Comadira	Deputy Chair, Intensive Care Physician
	A/Prof Roselyn Rose'Meyer	Deputy Chair, Pharmacology and Physiology Researcher
	A/Prof Kate Shacklock	Human Research Management Researcher
	Dr Annetta Kit Lam Tsang	Paediatric Dentist
	Dr Vinod Gopalan	Lecturer in Histopathology and Medical Education
	A/Prof Mary Sidebotham	Post Graduate Programs Director, Director Primary Maternity Care Programs

Categories defined in section 5.1.30 of the National Statement on Ethical Conduct in Human Research 2007 (Updated May 2015)

Library



Library services at Gold Coast Health work to provide opportunities and resources for staff to facilitate learning, research and evidence-based practice.

Throughout 2016 the librarians conducted mediated searches for evidence-based information to support patient care, research projects, journal club presentations, case studies, article publication, clinical audits and the development of guidelines and policy documents.

The library completed more than 300 literature search topics, ranging from finding evidence quickly for urgent clinical information queries, to supporting Cochrane-style systematic reviews. Our contribution has been acknowledged in published papers. We also participated in an allied health randomised trial of journal clubs (supported vs unsupported groups). The library's role was to run searches and supply search results as part of the intervention for the supported arm of the trial.

Training is continuously diversifying to meet client needs and opportunities; we are flexible in our delivery, engaging in staff orientation programs and in-service sessions tailored to client requirements.

Library staff are highly committed and continue to invest time and effort in expanding their professional skills and knowledge to support the high level information needs for evidence-based practice and research at Gold Coast Health.

Mrs Yvonne Auld
Manager

Evidence-Based Practice Professorial Unit

The Evidence-Based Practice Professorial Unit was formed in November 2015 as a joint initiative of Gold Coast Health and the Faculty of Health Sciences and Medicine, Bond University. The unit operates on the principle that the incorporation of the best evidence in routine clinical care leads to the best outcomes for patients.

The aims of the unit are to work with clinical staff, clinical research teams, the ORGD and Library to:

- 1) Build a sustainable culture of evidence-based practice at the hospital to improve the quality, effectiveness, safety and efficiency of clinical services
- 2) Embed high quality clinical research as part of routine care
- 3) Build staff and student research capability across Gold Coast Health
- 4) Enhance the research activity and productivity of Gold Coast Health practitioners, and increase external research grant applications.

Members of the unit, who are themselves active researchers and evidence-based practitioners, work with hospital staff in a number of ways with support available from novices to champions.

'Navigating the Evidence Maze' series has been rated highly by attending staff. They use a number of practical examples of assessing evidence from a range of study designs and systematic reviews, with a focus on rapid assessment, interpretation of numbers and integration of evidence into practice. The unit has undertaken Advanced Evidence-Based Practice (EBP) workshops covering systematic reviews, knowledge translation and research protocol writing, and individual consultations to assist hospital-based researchers in designing research studies.

The unit was ably led by Dr Rae Thomas in 2016 and will be led by the following representatives from 2017 onwards:



Prof David Henry

Professor, Evidence-Based Practice, Centre for Research in Evidence-Based Practice, Bond University



Dr Paulina Stehlik

EBP Professorial Unit Co-ordinator, Senior Research Fellow, Centre for Research in Evidence-Based Practice, Bond University

Enquiries should be directed via email to ebp_unit@bond.edu.au



Nursing and Midwifery



Dr Anita Bamford-Wade
Professor of Nursing and Midwifery

Nursing and midwifery research at Gold Coast Health is well established and continues to evolve in response to patient care needs. Supporting the growth in the nursing and midwifery research culture are seven joint appointments between Gold Coast Health and Griffith University: Professor Jennifer Fenwick, Midwifery; Professor Andrea Marshall, Acute and Complex Care; Professor Julia Crilly, Emergency Care; Dr Brigid Gillespie, inaugural Professor of Patient Safety; Dr Ramon Shaban, inaugural Professor of Infection Control; Associate Professor Laurie Grealish, Associate Professor of Sub-Acute and Aged Care Nursing. Dr Kathleen Baird, Dr Amy Johnston and Dr Gillian Stockwell-Smith also hold joint appointments in education and research.

It was a very productive year in 2016 with a total of 60 publications in peer-reviewed journals. Our researchers play a key role in mentoring nurses and midwives in research activity, with a focus on conducting research to support the implementation of best evidence into clinical practice. We have had around 100 nurses/midwives participating in research between July 2015 and December 2016.

The Professoriate has led a number of research projects which have attracted almost \$3 million in competitive research grants. In addition, the Queensland Government has invested \$7 million across the state to support innovation in nursing and midwifery models of care with the introduction of Nurse Navigators.

There are increasing numbers of nurses and midwives engaging in post-graduate studies. In 2016, 180 nurses completed their transition year to practice; 35 graduated with a Master's Degree and two with a PhD. The Professoriate is supervising increasing numbers of students undertaking both Masters and PhD studies.

Nursing and midwifery is well represented on lead research activities within Gold Coast Health. Of note, Professor Andrea Marshall is the Chair of the Research Council and is an inaugural member of the Strategic Research Advisory Committee, as am I. Professor Jennifer Fenwick has acted in the position of Deputy Chair of Gold Coast Health's HREC.

Gold Coast Health is on the journey to Magnet recognition, an international credential that recognises organisations for quality patient care; excellence and innovation; and for providing a supportive, enabling environment for all staff. The pursuit of new knowledge and clinical innovation through research and evidence-based practice are key components of the Magnet program. Given the robust nursing and midwifery research structure in place, Gold Coast Health is well placed to achieve Magnet recognition.

Research staff

Name (qualifications)	Position	Interests / specialities
Lyn Armit RN, MHSc, BABehavSci	Director, Nursing/Midwifery, Education and Research Unit	Workplace learning
Anita Bamford-Wade RN, PhD	Professor of Nursing and Midwifery, Gold Coast Health and Griffith University	Patient and family centred care; health services; leadership
Julia Crilly BN, MEmergN(Hons), PhD	Professor Emergency Care, Gold Coast Health and Griffith University	Emergency health services research; staff wellbeing; nursing
Jennifer Fenwick RM, PhD	Professor of Midwifery, Gold Coast Health and Griffith University	Midwifery care; models of maternity care; women's health
Therese Gardiner RN, GCertEmergN, GCertHRes	Nurse Researcher	Perioperative nursing; health services research; knowledge translation research
Brigid Gillespie RN, PhD	Professor of Patient Safety in Nursing, Gold Coast Health and Griffith University	Patient safety; surgical safety checklist; teamwork
Laurie Grealish RN, PhD, FACN	Associate Professor Sub-Acute and Aged Care, Gold Coast Health and Griffith University	Delirium; dementia; aged care; end of life care
Amy Johnston BSc(Hons), BN, GDipAdEd, MEd, PhD	Research Fellow Emergency Care, Gold Coast Health and Griffith University	Staff wellbeing; patient flow; service delivery
Andrea Marshall RN, PhD, FACN, FACCCN	Professor of Acute and Complex Care Nursing, Gold Coast Health and Griffith University	Implementation science; nutrition; critical illness and improving outcomes from critical illness
Susanne Pearce RN, BN, MN, PhD	Assistant Director of Nursing	Workplace learning
Ramon Shaban RN, CICP-E, EMT-P, BSc, BN, PGDip PH&TM, GCertInfectCon, MCHPrac(Hons), MEd, PhD, FACN, FCENA	Professor of Infection Control Nursing, Gold Coast Health and Griffith University	Infectious diseases; medical and health sciences; decision making
Brenton Shanahan RN, MAdvancedPracHProfEd	Assistant Director of Nursing	End of life care; simulated learning environments
Gillian Stockwell-Smith RN, PhD	Research Fellow Sub-Acute and Aged Care Nursing, Gold Coast Health and Griffith University	Aged care; dementia; delirium
Georgia Tobiano BN(Hons), PhD	Nurse Researcher	Clinical nursing; surgery handover



Dr Georgia Tobiano and Prof Andrea Marshall



A/Prof Laurie Grealish



Ms Lyn Armit

Supervised post-graduate students

Name	Current studies	Research topic
Laura Alberto	PhD, Griffith University	Implementation of sepsis screening in hospitalised patients
Tracee Cash	PhD, Griffith University	Consumer-directed care and relationships that involve carer, person with dementia and community care staff
Lisa Chen	PhD, Griffith University	Improving discharge process in cardiac services in a tertiary teaching hospital: Implementing same day discharge post percutaneous coronary intervention
Benjamin Mackie	PhD, Griffith University	Patient and Family Centred Care (PFCC) in hospitals
Anne Purcell	PhD, Griffith University	EMLA as a topical dressing to manage pain in patients with chronic leg ulcers: A pilot RCT
Megan Rattray	PhD, Griffith University	Nutrition intake of postoperative patients
Megan Smith	PhD, Griffith University	Students' perspectives of satisfaction with learning in Bachelor of Nursing programs in Australia: A grounded theory study
Georgia Tobiano	PhD, Griffith University	Patient participation in nursing care
Isabel Wang	BN Hons, Griffith University	How well do perioperative practitioners implement pressure injury prevention guidelines? An observational study
Vicky Warrick	Professional Doctorate, Notre Dame University	The surgical count: Is the count being performed according to best practice?
Alicia M Zavala	PhD, Griffith University	Decision-making under pressure: Medical errors in uncertain and dynamic environments

Awards and achievements

Award	Event	Recipient
Fellowship	TRIP – Translating research into practice 2016-17, NHMRC	Laurie Grealish
Fellow	Australian College of Nursing	Andrea Marshall
Fellow and Life Member	Australian College of Critical Care Nursing	Andrea Marshall
Clinical Fellow	Joanna Briggs Institute	Susanne Pearce
First runner up	Griffith University 3 Minute Thesis Final	Georgia Tobiano
Top student	International Society of Communication and Medicine Conference	Georgia Tobiano



Research grants

Investigators	Title	Grant body / scheme	Awarded
F Gill, G Leslie, AP Marshall, G Knight	Parent-initiated response to escalate care of the deteriorating child: The PARTNER project	Intensive Care Foundation and Princess Margaret Hospital Foundation	\$77,740 \$19,205
B Gillespie, AP Marshall	Unlocking the black box of practice improvement strategies to embed the	Centre for Health Practice Innovation	\$7,500
B Gillespie, AP Marshall, K Hamilton, T Gardiner, J Lavin	WHO Surgical Safety Checklist protocol: A process evaluation	Australian College of Operating Room Nurses	\$19,700
L Grealish, S Brandis, R Barrett, M Cooke, W Chaboyer, B Real, M Phelan, D Soltau, M Lunn, J Darch, J Todd	A descriptive study of factors that contribute to falls in hospitalised older people with cognitive impairment	Gold Coast Health Private Practice Trust Fund	\$42,979
L Grealish, K Layton, Y Santoso, E Soleil-Moudiky-Joh, A Marshall, W Moyle, A Argo, O Naidoo, M Givers, L Brown, S Howe, G Stockwell-Smith, T Gardiner	Improving hospital discharge processes for older people with cognitive impairment	Health Care Improvement Unit Queensland Health	\$266,534
L Grealish, L Armit, T van de Mortel, M Mitchell, S Billett, J Shaw, C Mitchell, V Frommelt	SUCCEED 2.1: Learning circles to develop inter-subjectivity	Griffith University	\$6,000
L Grealish, W Chaboyer, T Ownsworth, A Mudge, A Marshall, A Teodorczuk, M Cahill, C Stapelberg, T Simpson, M Krug, J Todd	Using normalisation process theory to engage nurses in delirium care	Strategic Research Grant Griffith University School of Nursing and Midwifery	\$7,500
AP Marshall, S Mickan, C Noble, S Billett, G Rogers	Conceptualising and enacting research and learning in a university hospital	Gold Coast Health Private Practice Trust Fund	\$18,549
G Stockwell-Smith, T Gardiner, L Grealish, A Marshall, W Moyle	Mapping discharge from hospital processes for older people with cognitive impairment: A document analysis	Strategic Research Grant Griffith University School of Nursing and Midwifery	\$7,500

Research projects

Investigators	Project title
L Grealish, J Crilly, M Forbes, M Beylacq	The older patients' journey through ED/MAU: Focus on representations
T Van de Mortel, L Armit, L Grealish	SUCCEED – Helping nursing students succeed: Supporting clinical learners in a collaborative clusters model
R Walker, A Marshall, M Cooke, L Aitken	Partnering with clinicians to improve reporting of clinical deterioration in patients: A knowledge translation pilot study





APPETITE FOR CHANGE: WEIGHT LOSS IN A COMMUNITY HEALTH SETTING

The long term effects of a four-week group-based multidisciplinary behavior management program for weight loss in a community health setting was a collaborative study undertaken by Gold Coast Health and Griffith University.

The study found that there were significant improvements in weight loss (average 4%) for 80 overweight/obese adults over a 12-month period. At completion of the program, participants also experienced improved quality of life, self-reported knowledge and stages of change.

The collaborative study involved the Gold Coast Health Chronic Disease and Post-acute Pain team, Adult Community Health and Menzies Health Institute Queensland.

The study was published in 2016 in the journal *Eating and Weight Disorders - Studies on Anorexia, Bulimia and Obesity*.

Allied Health



Prof Sharon Mikan
Professor of Allied Health

Allied health professionals partner with our consumers to contribute to the diagnosis, management and therapy of illness or injury; promoting optimal recovery; and maximising health and independent well-being. Allied health uses strategies of individualised care planning, patient-centred goal directed rehabilitation, self-management of chronic disease and the application of evidence-based interventions.

To complement the allied health clinicians conducting research within the four divisions, I work with three Principal Allied Health Research Fellows to focus on developing clinicians' research capacity and their skills in knowledge translation. While not all clinicians want to participate in or lead research, from a strategic perspective it is important to encourage all clinicians to be aware of and use research to inform and enhance their clinical practice.



Clinicians and their managers also need to understand how difficult it is to change practice to incorporate research evidence. A collaboration with senior academics from the Knowledge Institute within St Michael's Hospital, Toronto, is helping allied health and nursing clinicians to consider using research to improve the quality of their clinical practice and then to engage in research activities and collaborations to answer their important clinical questions.

As evidence of clinicians engaging and using research, almost 300 allied health professionals have attended 11 monthly allied health research forums. More than 100 allied health professionals participated in nine different journal clubs within the Tailored to Research Evidence and Theory (TREAT) randomised control trial and a further 16 allied health professionals from eight different professions have participated in a small group evidence-based practice workshop within an evaluative research project. More than 25 allied health projects were presented at the Research Showcase and the Gold Coast Health and Medical Research Conference in December. Twenty allied health workers and groups have consented to participate in the mixed methods STRETCH project which is documenting and evaluating 'Strategies for Research Engagement of Clinicians in Allied Health'.

Research staff

Name (qualifications)	Position	Interests / specialities
Sharon Mickan BOccThy, MA, PhD	Professor of Allied Health, Gold Coast Health and Griffith University	Knowledge translation; research capacity building; education and learning; health services research
Christy Noble BPharm, PGCertClinPharm, Med, PhD	Principal Medical Education Officer, Gold Coast Health Principal Research Fellow, Gold Coast Health and Griffith University	Workplace learning; medical education; health professional education
Kelly Weir BSpThy, MSpPath, PhD	Principal Research Fellow, Gold Coast Health and Griffith University	Paediatrics; respiratory diseases; medical & health sciences (paediatric dysphagia & speech pathology)
Rachel Wenke BSpPath(Hons), PhD	Principal Research Fellow and Senior Speech Pathologist, Gold Coast Health Adjunct Senior Lecturer, Griffith University	Research capacity building; models of care; treatment of neurogenic communication and swallowing disorders

Supervised post-graduate students

Name	Current studies	Research topic
Leah Coman	MPhil, Griffith University	Improving videofluoroscopic swallow study interpretation in radiology registrars through a targeted training program: A prospective cohort study
Samantha Densem	MSc Evidence-Based Health Care, University of Oxford	Familiarising Allied Health professionals with evidence based practice: Mixed methods evaluation of a six-month educational programme in an NHS hospital
Dominic Hurst	PhD, University of Oxford	Describing knowledge encounters in healthcare: A mixed studies systematic review and development of a classification
Tawanda Machingura	MPhil, Griffith University	Effectiveness of sensory modulation in treating sensory modulation disorders in people with schizophrenia
Adrian Rohrbasser	PhD, University of Oxford	Exploring why quality circles work in European primary care: A realist review
Anneli Schwarz	MSc Evidence-Based Health Care, University of Oxford	A standardised care plan in an acute stroke unit, barriers and enablers: A mixed methods study

Awards and achievements

Award	Event	Recipient
Honorary Tutor	Nuffield Department of Primary Care Health Sciences, University of Oxford	Sharon Mickan
Visiting Fellow	Kellogg College, Oxford, United Kingdom	Sharon Mickan
Finalist	Empowering People Award, Gold Coast Health Golden Gala Awards	Rachel Wenke



Research grants

Investigators	Title	Grant body / scheme	Awarded
K Bell, K Benfer, K Weir, R Ware, P Davies, R Boyd, J Arvedson	Identifying red flags for feeding difficulties and nutritional status in children and young people with cerebral palsy	Nutricia (Netherlands), funds managed by The University of Queensland	\$145,254
S King, K Weir	Establishing a regional paediatric videofluoroscopic swallow study clinic via telehealth to improve outcomes for Sunshine Coast children with oropharyngeal dysphagia	Sunshine Coast Health Foundation, funds managed by Sunshine Coast Hospital and Health Service	\$10,000
S Mickan, K Weir, C Noble, R Wenke	How do Allied Health research fellows use knowledge brokering strategies to facilitate research engagement in Allied Health clinicians: A mixed methods research project	Gold Coast Health	\$210,000
S Mickan, A Bamford-Wade, M Vonau, S Straus, J Moore, S Khan, C Marquez, S Rashid, M Courvoisier	Practicing knowledge translation: Course evaluation	Gold Coast Health	\$54,000
R Wenke, S Mickan, J Hulcombe	Impact of a research capacity building initiative: Qualitative evaluation of health practitioner research positions	Allied Health Professional Office of Queensland	\$50,000

Research projects

Investigators	Project title
S Mickan, R Thomas, R Wenke	The impact of a small-group Evidence-Based Practice (EBP) education program for Allied Health professionals on EBP knowledge, skills, self-efficacy: Barriers and facilitators for EBP champions to share learning with peers
R Wenke, S Mickan, N Morris, A Bialocercowski	Building research capacity and collaboration in Allied Health: An evaluation of the research incubator
R Wenke, S Mickan, R Thomas	TREAT journal clubs 'Tailoring research evidence and theory' into Allied Health journal clubs: A randomised controlled trial



LEARNING TO PRESCRIBE THROUGH INTER-PROFESSIONAL CO-WORKING

Learning to prescribe is challenging for junior doctors. It is often overlooked that learning to prescribe and prescribing practices rely on practice-based interactions with informed practitioners, such as pharmacists and consultants.

Interviews with practitioners, comprising junior doctors (n=11), consultants (n=10), and pharmacists (n=13) showed that the method used by junior doctors while learning to prescribe is dependent on their interactions with both senior medical officers and pharmacists.

However, the nature of these interactions is complex and influenced by differing understandings of prescribing practices between professional groups.

Strategies identified to improve opportunities for learning to prescribe through practice include pharmacists attending ward rounds to promote inter-professional collaboration and supporting pharmacists to understand how to facilitate junior doctor learning in practice.

Medical Education

The Gold Coast Health Medical Education Unit (MEU) supports the professional development of medical students, junior doctors and their supervisors. The contribution of supporting medical student and junior doctor learning ultimately translates into improving patients' outcomes. The MEU is leading the way with its high level of medical education research engagement and its focus on augmenting workplace learning. This achievement has been demonstrated through research publications, inter-professional research collaborations, external funding and translation of findings into practice.

There have been several research highlights for MEU:

- We have been part of a national Office of Learning and Teaching research grant, led by Professor Stephen Billett (Griffith University) and in collaboration with Professor Elizabeth Molloy (University of Melbourne), which investigates how to improve learner-centred feedback processes in the workplace. Initial findings suggest that our educational intervention has improved healthcare students' engagement in feedback processes while on clinical placements at Gold Coast Health. These findings have been presented through the Australian Collaborative Education Network and a book chapter is currently under development.
- We have been actively investigating how we can improve research learning opportunities for junior doctors, which will ultimately result in a number of publications being prepared.
- Our innovative research investigating inter-professional models of co-supervision engaging pharmacists is in its final stages of dissemination and has resulted in the publication of three book chapters, two peer reviewed articles, two national conference presentations and two more publications in preparation.

- MEU has been actively developing and researching various innovative transition to internship models and interventions. Prompted by the success of the pre-intern placement for final year medical students, Gold Coast Health will offer an extra week of orientation to 2017 interns to support their learning and assist with transition from student to intern.

The MEU facilitates Gold Coast Health clinical research activities for medical students from Bond University and Griffith University Schools of Medicine. Annually, more than 100 medical students participate in a variety of clinical research projects supervised by Gold Coast Health clinicians. Facilitated by the MEU, this has provided medical students with the opportunity to actively participate in clinical research activities as principal or co-authors, and has supported Gold Coast Health clinical researchers and clinicians with research and publication output. Research activities contribute to improved workplace learning opportunities and thus improved health practitioner competency.

It is likely that pharmacists' contributions to junior doctor prescribing learning will lead to reduced medication errors. These findings prompted health care professionals from NSW Health to visit Gold Coast Health. Our high levels of research engagement have increased opportunities to collaborate with Griffith University (Griffith Health and Griffith Institute of Educational Research), Bond University (School of Medicine), University of Melbourne (School of Medicine) and the University of Queensland (School of Pharmacy).



Dr Christy Noble, Ms Christine Sly, Mrs Brooke Myers

Research staff

Name (qualifications)	Position	Interests / specialities
Patrick Glover BScNeuro, MBBS, FRACP	Staff Specialist, Anaesthesia	Training; regional anaesthesia
Brooke Myers BPharm, PGDipClinPharm	Principal Medical Education Officer	Junior doctor communication; prescribing; medication safety
Christy Noble BPharm, PGCertClinPharm, MEd, PhD	Principal Medical Education Officer Principal Research Fellow (Allied Health), Gold Coast Health and Griffith University	Workplace learning; medical education; health professional education; feedback
Christine Sly MHScCIEd, PGCertCIEd, BASocSc, DipBusHR, Cert IV TrainAssess, PGCertPeriopAna PACU, RN	Medical Student Co-ordinator and Medical Education Officer Gold Coast Health, Griffith University and Bond University	Workplace learning; medical education; health professional education; feedback

Supervised post-graduate students

Name	Current studies	Research topic
Dana Phang	MD, Griffith University	Examining factors influencing junior doctors' engagement in research in the workplace
Jenna Turkington	MPhil, University of Queensland	Improving feedback processes to junior doctor prescribers

Awards and achievements

Award	Event	Recipient
Joint Winner	Three minutes of fame, Royal Brisbane and Women's Hospital (RBWH) Research Symposium	Brooke Myers

Research grants

Investigators	Title	Grant body / scheme	Awarded
S Billett, G Rogers, R Shaban, L Grealish, M Mitchell, A Bialocerkowski, L Sweet, E Molloy, J Newton, C Steketee, T Levett-Jones, C Courtney-Pratt, C Noble, C Sly	Augmenting students' learning for employability through post-practicum educational processes	Office of Learning and Teaching Australian Government	\$467,000
I Coombes, M Barras, P Donovan, C Mitchell, C Noble, R Friend, T Teasdale, B Myers, L Stockwell	Improving intern medical officer prescribing through an intervention of self-assessment and feedback	RBWH and RBWH Foundation	\$46,300

Research projects

Investigators	Project title
P Glover, D Hyde, N Woodall, C Daniel	Skill acquisition using a blue phantom simulation
B Myers, I Coombes, C Mitchell, P Donovan, J Whitty	Investigating the impact of a clinical pharmacist on post take ward round prescribing, medication appropriateness and cost
C Noble, L Grealish, J Morris, B Shanahan, B Hiremagular	Planning to care for the dying: An implementation research project



IMPACT OF COUGH REFLEX TESTING IN ACUTE STROKE

The impact of cough reflex testing on rates of aspiration pneumonia in acute stroke patients was measured following the random allocation of patients to receive either cough reflex testing or the standard bedside assessment.

The study showed that patients who received cough reflex testing had reduced overall rates of aspiration pneumonia, with the treatment being the most beneficial for patients following a cortical stroke.

Speech pathologists reported an increased confidence in clinical decision making when using the cough reflex testing method. Based on the research findings, speech pathologists in the acute stroke unit are now routinely using cough reflex testing for specific acute stroke patients.





Dr Jeremy Wellwood
Clinical Director

As one of the operational directorates in Gold Coast Health, Cancer Access and Support Services (CASS) has an operating budget of around \$169 million and employs about 900 staff (FTE). It includes a heterogeneous collection of specialised clinical, non-clinical and support services. The clinical services vary from larger departments such as medical oncology, haematology and palliative care to smaller services such as infectious diseases and infection control, rheumatology and sexual health. The largest non-clinical area is food services, which works in partnership with nutrition. There are many support services such as speech pathology, social work and pharmacy. The Public Health Unit has a broad remit across both the health service and community in general.

As you will see from this review, the CASS service areas are all active in research, often to a level disproportionate to its size. This reflects the significant opportunity for research that exists in these areas. This research is a combination of

Cancer, Access and Support Services

investigator-initiated work, collaborative cross-sector work and includes a large clinical trial portfolio, which is especially common in the cancer disciplines.

The CASS research leaders meet monthly to discuss their output and to consider ways to improve involvement in and access to research across the directorate.

This review highlights the high quality of academic staff in CASS, including many with a PhD qualification in a range of our service areas. There are many successful research grants as well as high-level publications listed. A feature in CASS has been the development of local, national and international research partnerships in areas such as Infection Control, Public Health and Allied Health. These collaborations set a robust and optimistic platform to increase research involvement and output into the future.



Clinical Haematology



Dr Michelle Bryson
Acting Director

The Department of Clinical Haematology co-supports permanent, dedicated staff for clinical trial coordination, including multi-centre trials. These trials are predominantly Phase II to Phase IV, with a focus on Myeloma, Non-Hodgkin's Lymphoma and Chronic Leukaemia. Staff have extensive haematology, oncology and stem cell transplantation experience and also coordinate medical oncology clinical trials at Gold Coast University Hospital (GCUH). The department has strong research partnerships with not-for profit groups such as The Australasian Leukaemia and Lymphoma Group (ALLG) and a robust portfolio supported by pharmaceutical sponsorship.

The department has increased its trial coordinator workforce from one permanent full-time staff member to three permanent full-time staff.

During 2015-16, two separate therapies under the Food and Drug Administration (FDA) Breakthrough Therapy Designation – Daratumumab and Venetoclax, were available to GCUH patients, a first for the service. Staff also presented on the co-investigated POLLUX study at The American Society of Haematology Annual Meeting 2016.

The department aims to improve overall survival, progression-free survival and quality of life for Gold Coast Health patients on clinical trials.

Research staff

Name (qualifications)	Position	Interests / specialities
Michelle Bryson MBBS, FRACP, FRCPA	A/Director, Haematology	Haematology
Fiona Clark BN, PGCertTransfusionPracOncN	Transfusion Clinical Nurse Consultant	Transfusion practices
Tara Cochrane BMBS, FRACP, FRCPA	Haematologist	Lymphoma
Jacob Darch BN, PGCertCancerCare	Trials Manager Clinical Nurse Consultant	Haematology; oncology
Sunelle Engelbrecht MBBS, FRACP, FRCPA	Haematologist	Thrombosis; transfusion
Ian Fraser BN	Clinical Trial Coordinator Clinical Nurse	Haematology; oncology
Kayalia Marks BN	Clinical Trial Coordinator Registered Nurse	Haematology; oncology
Elise Sturgeon BN	Clinical Trial Coordinator Clinical Nurse	Haematology; stem cell transplantation
Jeremy Wellwood MBBS, FRACP, FRCPA	Clinical Director, CASS Haematologist	Malignant haematology; stem cell transplantation



Research projects

Investigators	Project title
M Bryson, T Cochrane, J Wellwood	A two-stage Phase III, international, multi-centre, randomised, controlled, open-label study to investigate the pharmacokinetics, efficacy and safety of Rituximab SC in combination with CHOP or CVP versus Rituximab IV in combination with CHOP or CVP in patients with previously untreated follicular lymphoma followed by maintenance treatment with either Rituximab SC or Rituximab IV
F Clark	National massive transfusion registry
T Cochrane, M Bryson, J Wellwood	A Phase II Study of patients treated for relapsed Follicular Lymphoma: with Revlimid consolidation added to Rituximab maintenance therapy in those remaining PET positive
T Cochrane, M Bryson, J Wellwood	A Phase III, randomised, placebo-controlled, double-blind study of oral Ixazomib Citrate (MLN9708) maintenance therapy in patients with multiple Myeloma following autologous stem cell transplant
T Cochrane, M Bryson, J Wellwood	Double blind randomised Phase III study of lenalidomide (Revlimid) maintenance versus placebo in responding elderly patients with DLBCL and treated with R-CHOP in first line
T Cochrane, M Bryson, J Wellwood	Open label, single arm, Phase IIIb, multi-center study evaluating the impact of Venetoclax on the quality of life of relapsed/refractory subjects with CLL including those with the 17p Deletion or TP53 Mutation OR those who have received prior treatment with a B-cell Receptor Inhibitor
T Cochrane, M Bryson, J Wellwood, G Seeley	Paroxysmal Nocturnal Haemoglobin Registry
T Cochrane, M Bryson, S Engelbrecht	Phase II study of Ibrutinib, Rituximab and mini-CHOP therapy in very elderly patients with newly diagnosed DLBCL
T Cochrane, M Bryson, J Wellwood	Phase III study comparing Daratumumab, Lenalidomide, and Dexamethasone (DRd) vs Lenalidomide and Dexamethasone (Rd) in subjects with relapsed or refractory multiple Myeloma

Infectious Diseases and Infection Control



A/Prof John Gerrard
Director Infectious Diseases and Immunology



The Department of Infectious Diseases and Infection Control aims to improve infection control standards throughout Australasia. Our efforts will be augmented by the launch of a three-tiered credentialing system through the Australasian College for Infection Prevention and Control (ACIPC). This system specifies minimum criteria for credentialing infection control professionals from primary through to advanced and ultimately expert levels. This credentialing system will be implemented throughout Gold Coast Health in 2017.

Research is a strong focus for the department. We have experienced research staff involved in large NHMRC-funded multi-site projects as well as those who supervise 13 PhD students from a range of universities. Apart from using their research expertise to drive a range of research projects within the department, staff are actively involved in a range of 'extra-curricular' research activities including membership of the NHMRC committee overseeing the review of the Australian Infection Control Guidelines, ACIPC Board membership and membership of an expert panel review of the Canterbury District Health Service Infection Control Service in New Zealand. The department has achieved a number of key publications in international peer-reviewed journals including the American Journal of Infection Control and was the recipient of funding from Medtronic.

Professor Ramon Shaban, Clinical Chair and Professor of Infection Control, was honoured with the award for Outstanding Alumni 2016 from James Cook University and is a chief investigator on a successful NHMRC application for the project 'High throughput technology targeting antimicrobial resistance in animals'. This grant will enable a national team of researchers to bring together vital information about drug resistances in the animal sector for analysis and integration with data from the human sector. It will provide opportunity to pre-empt the emergence of resistances in the human sectors that have origins in the animal sectors.



Prof Ramon Shaban



Dr Deborah Macbeth

Research staff

Name (qualifications)	Position	Interests / specialities
John Gerrard BScMed, MBBS, MSc DTM&H, DLSHTM, FRACP	Director, Infectious Diseases and Immunology	Emerging infectious diseases; infection control; malaria
Keith Grimwood ONZM, MBChB, FRACP, MD	Pre-eminent Senior Staff Specialist, Paediatric Infectious Diseases Professor of Infectious Diseases, Gold Coast Health and Griffith University	Infectious diseases; paediatrics; vaccine preventable diseases
Deborah Macbeth RN, BN, MAppEthics, PhD, CICP-E	Assistant Director of Nursing, Infection Control	Infectious diseases; medical and health sciences; credentialing
Ramon Shaban RN, CICP-E, EMT-P, BSc, BN, PGDip PH&TM, GradCertInfecCon, MCHPrac(Hons), MEd, PhD, FACN, FCENA	Professor of Infection Control Nursing, Gold Coast Health and Griffith University	Infectious diseases; medical and health sciences; decision making

Supervised post-graduate students

Name	Current studies	Research topic
Katherine Frayman	PhD, University of Melbourne	The pulmonary microbiome in infants and young children with cystic fibrosis
Vikas Goyal	PhD, University of Queensland	To advance the knowledge, understanding and management of respiratory exacerbations in children with bronchiectasis
Tristram Ingham	PhD, University of Otago	Whiti – Te Ra: Acute respiratory infection disparities amongst Maori and Pacific children
Ranse Jamie	PhD, Flinders University	Disaster nursing - the lived experience
Tamsin Jones	PhD, Griffith University	Australian standards for emergency nursing
Ng Wai Khan	PhD, Griffith University	Evaluating a faith-based intervention on hand hygiene compliance in the United Arab of Emirates
Tim Lai	GDipHRes, Griffith University	Electronic hand hygiene auditing models: An evaluation
Mohinder Sarna	PhD, University of Queensland	The community-based epidemiology and cost of respiratory infections in early childhood
Sarah Sheridan	PhD, University of Queensland	Assessing vaccine effectiveness of publically funded vaccination programs in Queensland
Frank Stadler	PhD, Griffith University	Supply chains for maggot debridement therapy
Elina Trembizki	PhD, University of Queensland	A nationwide study of Neisseria gonorrhoeae antimicrobial resistance: Towards molecular surveillance
Vikram Vaska	PhD, University of Queensland	Community-associated Meticillin resistant Staphylococcus aureus: Increased burden of infections in children and young people in Queensland and Australia
Suifang (Sophia) Ye	PhD, University of Queensland	Rotavirus detection and typing in the rotavirus vaccine era



Awards and achievements

Award	Event	Recipient
Temporary Advisor	Antimicrobial Resistance, World Health Organisation	Ramon Shaban
President	Australasian College for Infection Prevention and Control	Ramon Shaban
Outstanding Alumni 2016	College of Health and Medical Sciences, James Cook University	Ramon Shaban

Research grants

Investigators	Title	Grant body / scheme	Awarded
A Chang, K Grimwood, T Yeo, J Upham, M Ooi, M Fong	A multi-centre double-blind RCT on community-acquired pneumonia in Indigenous children and a developing country: Improving clinical outcomes and identifying systemic biomarkers	NHMRC	\$2,167,560
K Hare, H Smith-Vaughan, K Grimwood, C Satzke, E Price, D Sarovich, A Chang	Understanding the role of the two major bacterial pathogens in the upper and lower airways of Indigenous children with chronic lung disease	NHMRC	\$743,282
D Trott, S Abraham, G Coombs, J Paton, J Iredell, J Norris, M Schembri, J Gibson, B Howden, S Garg, H Venter, R Shaban, J Turnidge, D Jordan, Y Abs El-Osta	High throughput technology targeting antimicrobial resistance in animals	Australian Research Council	\$510,000

Research projects

Investigators	Project title
A Chang, N Brown, E Mulholland, K O'Grady, K Grimwood, P Morris, A Leach, J Upham, P Torzillo, H D'Antoine	Centre for Research Excellence in Lung Health of Aboriginal and Torres Strait Islander Children
A Chang, P Morris, C Robertson, K Grimwood, P Van Asperen, A Wilson, K O'Grady, T Sloots, P Torzillo	Multicentre, randomised controlled trial to improve the management of exacerbations in children with bronchiectasis
E Fantino, P Sly, K Grimwood, U Kappler, T Sloots	Immune recognition of upper airway microbiota in early life: Viral – bacterial interactions
R Levesque, F Brinkman, A Cantin, R Hancock, C Winstanley, N Tucker, J Turton, S Heeb, A Stephenson, S Bell, T Kidd, P Rainey, K Grimwood, S Aaron, S Rousseau, D Nguyen, B Yves, B Boyle, J Laroche, H Maaroufi, J Jeukens, A Nisole, J Burns, A Comeau	Clinical exploitation of genomics data produced by the Pseudomonas International Consortium
K O'Grady, A Chang, K Grimwood, P Morris, H Smith-Vaughan, K Mulholland, P Torzillo, A Cripps, N Wood, A Revell	A multi-centre, double blind, randomised controlled trial to evaluate the efficacy of 10 valent-pneumococcal-Haemophilus influenzae-Protein D conjugate vaccine in reducing respiratory exacerbations in children aged >18 months with chronic suppurative lung disease
R Shaban, S McCarthy, A Henderson, F Coyer, D Macbeth, B Mitchell, R Fox, K Theobald, B Thompson	Academic-industry integration in health: Enhancing postgraduate professional learning for specialty infection control practice
R Shaban, D Macbeth, N Vause, D Simon	Documentation, composition and organisation of infection control programs and plans in Australian healthcare systems: A pilot study
P Sly, S Lambert, B Hales, E Fantino, U Kappler, P Holt, K Grimwood, T Sloots	Immune recognition of upper airway microbiota in early life as a determinant of respiratory health in children
C Wainwright, K Grimwood, P Sly, H Tiddens, P Hugenholtz, R Massie, C Robertson, P Cooper, C Byrnes, S Vidmar	Clinical and psychosocial changes over late childhood and adolescence and early life determinants of long-term clinical outcomes in cystic fibrosis

Medical Oncology



A/Prof Jasotha Sanmugarajah
Director

The Department of Medical Oncology at Gold Coast Health provides comprehensive multidisciplinary cancer care for patients. It is a tertiary referral centre that sees more than 1000 new cancer patients each year. The department is active in clinical research, participating in collaborative international studies, cooperative national cancer group trials and local clinical trials targeting breast, lung, melanoma, prostate, head and neck, colorectal and gynaecological cancers.

Our research team works in collaboration with researchers from Bond and Griffith Universities, and the University of Queensland. They have published several peer reviewed articles and have presented findings and recommendations at national and international conferences.

Research staff

Name (qualifications)	Position	Interests / specialities
Suzanne Allan MBBS, FRACP	Staff Specialist	Breast and adolescent cancer
Susan Caird MBBS, FRACP	Staff Specialist	Geriatric oncology; gastrointestinal cancer
Bethany Crowe CNC	Team Leader Specialist Cancer Nursing Service	Oncology and carcinogenesis; clinical nursing: secondary (acute care); health counselling
Jacob Darch CNC	Clinical Trials Manager	Haematological tumours; cancer therapy; solid tumours
Marcin Dzienis MBBS, FRACP	Staff Specialist	Sarcoma; head and neck cancer
Ian Fraser CN	Clinical Trials Coordinator	Haematological tumours; cancer therapy; solid tumours
Andrew Hill MBBS, FRACP	Staff Specialist	Skin, gastrointestinal and urological cancer

Research staff (cont.)

Name (qualifications)	Position	Interests / specialities
Mohammed Islam MBBS, FRACP	Staff Specialist	Lung, head and neck cancer
Kayalia Marks RN	Clinical Trials Coordinator	Haematological tumours; cancer therapy; solid tumours
Marco Matos MBBS, FRACP	Staff Specialist	Head and neck, gynaecological cancer
Wade Pullin MBBS, FRACP	Staff Specialist	Genitourinary, central nervous system cancer
Jasotha Sanmugarajah MBBS(Hons), MD NY, FRACP	Director	Breast, lung, geriatric oncology
Elise Sturgeon CN	Clinical Trials Coordinator	Haematological tumours; cancer therapy; solid tumours
Dean Vuksanovic BPsych(Hons), MClInPsych	Clinical Psychologist	Psychology; public health and health services; clinical services

Awards and achievements

Award	Event	Recipient
Clinical Lead	Haematology Oncology Triage (HOT) project	Marcin Dzienis
People's Choice Award	Improvers Program, Gold Coast Health for the project: Implementation and evaluation of the HOT project to improve telephone triaging service, triaging guidelines, staff and patient education and a HOT clinic for cancer patients	Marcin Dzienis
Clinical Lead	Cancer Care Block, Griffith and Bond Universities	Jasotha Sanmugarajah
Clinical Lead	Queensland Oncology and Malignant Hematology CPC, Queensland Health	Jasotha Sanmugarajah

Research projects

Investigators	Project title
S Caird, J Sanmugarajah, A Quennell, M Powell	Prospective assessment of the introduction of a senior oncology clinic at the Gold Coast University Hospital
S Caird, P Gibbs	TRACC – Treatment of recurrent and advanced colorectal cancer: A prospective multi-site registry
S Chambers, J Sanmugarajah, J Dunn, M Hyde, B Crowe, M Lazenby	Evaluating distress screening and referral to psychosocial care
C Dowling, J Sanmugarajah, S Caird, M Powell, G Liu	Safety audit of accelerated Bevacizumab infusions: A single centre retrospective cohort study
A Marshall, S Roberts, J Sanmugarajah, J Abbott, A Molasiotis, L Cheng	PICNIC – Partnering with families to promote nutrition in cancer care
J Sanmugarajah, S Allan, L Laakso	Prevention of aromatase inhibitor induced musculoskeletal pain by exercise programme
D Vuksanovic, H Green, M Dyck, S Morrissey	Dignity therapy and life review for palliative care patients: A randomised controlled trial

Nutrition and Food Services



Mr Alan Spencer
Director

Nutrition and Food Services operates as a single service across Gold Coast Health and comprises a clinical arm and an operational arm. The clinical arm provides clinical nutrition support and education to inpatients and outpatients across two hospitals and multiple community health centres. Education is also provided to a range of stakeholders. The service also undertakes multidisciplinary research in clinical nutrition and food services with research being conducted locally, nationally and internationally.

Operationally, Nutrition and Food Services provides clinically, ethnically and allergy-appropriate meals for patients across both hospital sites. The amalgamation of the two services has permitted significant synergies that have resulted in a more productive service which is better able to meet the needs of patients. Regular auditing of food services ensures the service meets the Queensland Health Food Service Key Performance Indicators.

The service works closely with both Griffith and Bond Universities around student placements, education and collaborative research. Nutrition and Food Services has recently developed a Nutrition Research Collaborative with Griffith University, Bond University and other health service stakeholders with the aim of concentrating research around five domains (acute care, intensive care, oncology, food services and public health). To date, the collaborative is involved in 17 research projects with grants totalling \$2.8 million.

In 2016, Nutrition and Food Services created a post-doctoral research position and is also looking at creating a conjoint research position with Bond University in 2017. One of the health service dietitians, Dr Shelley Roberts, was recently awarded a \$240,000 postdoctoral fellowship to undertake research evaluating the use of the food services Delegate IT system to enhance patient care. A number of presentations at conferences both nationally and internationally have occurred as a result of research within the service and a number of publications have or are in the process of resulting from the research to date.



Research staff

Name (qualifications)	Position	Interests / specialities
Jessica Abbott BHLthScNut&Diet (Hons), BAppScHMS (Hons), CertAdolHWelb	Senior Oncology Dietician	Oncology
Rebecca Angus BSc(Hons) MNutrDiet, PhD	Research Officer Dietician	Clinical and sports nutrition; public nutrition intervention; nutrition and dietetics
Zane Hopper BHumanMovSt, MNutrDiet	Assistant Director	Food services
Meri Manafi BNutr	Senior Renal Dietician	Nutrition and dietetics; nephrology; urology
Andrea Marshall RN, PhD, FACN, FACCCN	Professor of Acute and Complex Care Nursing, Gold Coast Health and Griffith University	Implementation science; nutrition; critical illness and improving outcomes from critical illness
Lyza Norton BSc, MNutrDiet	Senior Paediatric Dietitian/ Team Leader-Nutrition	Nutrition; paediatrics
Shelley Roberts BHLthSc(Nutr), MNutrDiet(Hons), PhD	Dietician Research Fellow Griffith University	Clinical nutrition; patient participation in care; knowledge translation
Alan Spencer BSc(Hons), GDipDiet, MPH	Director	Nutrition and dietetics; gastroenterology and hepatology; medical biochemistry

Supervised post-graduate students

Name	Current studies	Research topic
Megan Rattray	PhD, Griffith University	Improving feeding practices in postoperative patients: A knowledge translation approach

Awards and achievements

Award	Event	Recipient
Improvers Award, Health Minister (up to \$10,000)	Improvers Program, Gold Coast Health: Sustainable produce garden program	Helen Clifford and Alan Spencer
Early Career Researcher Award 2016	Griffith University Pro Vice Chancellor (Health) Research Excellence Awards	Shelley Roberts
Emerging Researcher Award	Gold Coast Health Research Showcase	Shelley Roberts

Research grants

Investigators	Title	Grant body / scheme	Awarded
A Marshall, S Roberts, J Sanmugarajah, J Abbott, A Molasiotis, E Cheng	PICNIC – Partnering with families to promote nutrition in cancer care	Griffith University and Hong Kong Polytechnic University Collaborative Grant	\$28,684
S Roberts, W Chaboyer, Z Hopper, A Spencer, A Marshall, R Gonzalez	NUTRI-TEC – Engaging patients in their nutrition care using technology	National Centre for Research Excellence in Nursing Seeding grant	\$9,600
		Griffith University Postdoctoral Fellowship Scheme (S Roberts)	\$193,415
		Menzies Health Institute Queensland	\$12,471

Research projects

Investigators	Project title
J Abbott, E Isenring, S Hofto	Evaluate local nutrition and swallowing outcomes for patient's treatment with radiation therapy to the head and neck at Gold Coast University Hospital
J Abbott, Teleni, E Isenring	Investigating new technology to help screen and triage nutritional issues in cancer patients
J Abbott, E Isenring, L Teleni, F Ottery, A Villanueva, H Jager-Wittenaar	To investigate the inter-rater reliability between patients and the dietician, and the patient usability of the scored 'Patient generate subjective global assessment' PG-SGA (paper form) and Pt-Global app (iPad version)
J Abbott, E Isenring	Translating evidence into practice – nutritional and swallowing outcomes for patients treated for head and neck cancer with radiotherapy
K Campbell, J Kurtkoti, J Kelly	Teli-CKD – Technology use for information in Kidney Disease
M Hopper	Evaluation of aphasia friendly menus
M Manafi, I Ismail, B Hiremagalur, T Titus, S Braham	The effects of intradialytic parenteral nutrition (IDPN) on nutritional parameters in malnourished haemodialysis patients
A Marshall, T Leeder	International Nutrition Survey
A Marshall, A Spencer, S Pearson	PREDICT – Predictive equations for estimating resting energy demand in critically ill patients
J Paxton, F Clark, G Spanti	Retrospective audit to determine if the implementation of three measures, pre-operative iron deficiency anaemia screening, the use of tranexamic acid perioperatively and the promotion of appropriate red blood cell (RBC) transfusions according to the National Blood Authority Patient Blood Management Guidelines
A Spencer, L Bissett	Evaluation of sub-optimal preoperative nutrition intake in patients awaiting surgery for fractured neck of femur



A photograph of two healthcare professionals in teal scrubs. One is a woman with dark hair and a stethoscope, looking towards the other. The other is a woman with short blonde hair, seen from the side. They are in a hospital room with medical equipment in the background.

PREDICT STUDY

The measurement of resting energy expenditure and its level of agreement with predictive equations was assessed in the PREDICT study.

Sixty critically ill patients had measurements taken over a 7 day period. The study showed that patients who are obese and those who require mechanical ventilation for more than 48 hours benefit most from metabolic monitoring and using these results lead to improved nutrition prescription and delivery.

As a result of this work, metabolic monitoring is now well established in the GCUH ICU and this may contribute to improved nutrition care in this group of at-risk patients.

Pharmacy



Mrs Elizabeth Coombes
Director

The Pharmacy Department operates as a single service across Robina and Gold Coast University Hospitals. It provides health service-wide medicines management to support the principles of the quality use of medicines, by providing safe, effective, evidence-based and cost-effective medicines to patients of the Gold Coast and wider area. Our pharmacists and assistants are learning the principles and practices of research through collaboration with Griffith University and more experienced researchers within Gold Coast Health.



Board Chair, Mr Ian Langdon and Mrs Trudy Teasdale

In 2015-16, a conjoint position was established with Griffith University and a Pharmacy Research Collaborative was formed. This is helping Gold Coast Health pharmacists commence workplace-based research projects. Additionally, the Medical Education Unit and Allied Health Research Fellows have been assisting with a number of shared research projects. The Pharmacy Department was represented at the Federal Hospital Pharmacy conference, the Haematology conference and the Clinical Oncology conference.

The research being conducted within the service relates to workplace and clinical practices. For example, the expanded scope of pharmacy assistants has been developed, trialled and evaluated and is now being put into every day practice to improve inpatient medicines management and release pharmacists to undertake higher clinical practice.

A collaborative research study investigating pharmacists as clinical co-supervisors for junior doctors was undertaken with the Medical Education Unit, which will result in pharmacists being formally trained as clinical co-supervisors demonstrating improvements in medical staff prescribing safety and ability. Collaborative studies into sepsis, the use of oral encapsulated faecal matter in Clostridium Difficile, the use of Rituximab in nephrotic syndrome, and accelerated Bevacizumab infusions are current research projects that will alter clinical practice, to improve outcomes and provide more efficient services.

Research staff

Name (qualifications)	Position	Interests / specialities
Jack Cross BPharmSci, MPharm	Senior Pharmacist	Infectious diseases, antimicrobial PK-PD; Clostridium Difficile
Rebecca Curran BPharmaceutSc, MPharm(Hons), GCPHarmPrac	Pharmacist	Clinical sciences; pharmacology and pharmaceutical sciences
Katherine Dekker BSc, BPharm	Pharmacist	Medical; surgical
Jane Hogan BPharmSci, MPharm	Pharmacist	eMedicine management; toxicology; clinical education
Matthew Percival BPharm, MCLinPharm	Clinical Pharmacist Gold Coast Integrated Care	Public health and health services; primary health care; pharmacology and pharmaceutical science
Tara Prowse BPharm, MCLinPharm	Senior Pharmacist	Oncology and carcinogenesis; pharmacology and pharmaceutical sciences; clinical sciences
Rachael Raleigh BPharm	Clinical Pharmacist	Clinical pharmacy and pharmacy practice; clinical pharmacology and therapeutics; respiratory diseases
Jemma Robinson MPharm	Pharmacist	Clinical sciences
Vicki Sharman BPharmSci, MPharm, PGDipClinPharm	Senior Pharmacist	Clinical pharmacy and pharmacy practice; pharmacology and pharmaceutical sciences; emergency medicine
Linda Stockwell BScPharm, DipClinPharm	Advanced Pharmacist	Prescribing; nephrology; supervision
Trudy Teasdale B Pharm, MScClin Pharm, GCert BA	Assistant Director Pharmacist	Clinical pharmacy and pharmacy practice; health care administration; neurology and neuromuscular diseases

Awards and achievements

Award	Event	Recipient
Excellence Award	Gold Coast Health Golden Gala Awards	Trudy Teasdale

Research projects

Investigators	Project title
R Curran, N Bernaitis, A Davey, H Hattingh, A McFarland, E Chue Mei Ching, T Siew Chong, C Chi Keong, S Anoopkumar-Dukie	Factors influencing prescribing of statins in Singapore compared to Queensland, Australia
K Dekker, M Barras, B Myers	Compliance with Enoxaparin dosing and monitoring guidelines and the impact on patient length of stay: A pilot study
J Hogan, G Grant, F Kelly, J O'Hare	Evaluation of the impact of a pharmacy robotic dispensing system (PRDS) of Gold Coast Health pharmacy department
M Percival, M Sabaratnam, L Henshaw	Does a community-based, multidisciplinary chronic health failure (CHF) management program improve patient health outcomes and reduce hospitalisations?
R Raleigh, T Teasdale, J Mahoney, R Wenke, K Galbraith	Evaluation of the impact of an advanced pharmacy assistant role on an inpatient unit on the provision of clinical pharmacy services
J Robinson, J Crilly, J Cross, V Sharman, T Teasdale	The golden hours of sepsis
L Stockwell	Regular medication chart audit and feedback: Does it improve the quality of junior doctor prescribing?

Public Health



Prof Paul Van Buynder
Staff Specialist

The Public Health Unit delivers communicable disease control, environment health, preventive health, epidemiology and immunisation services to the broader Gold Coast community. The unit comprises a multidisciplinary team of practitioner researchers; including physicians, clinical nurses, environmental health officers, health promotion officers, and epidemiologists. The service works collaboratively with partners in academia, government, non-government, industry, and the community, to conduct research across the spectrum of public health and improve population health outcomes.

Public Health is translating evidence-based practice and supporting continual service evaluation and improvement. Examples of this work during the 2015-16 period is outlined:

- The delivery of the paediatric and school immunisation program. Projects include a review of the accessibility and acceptability of the City of Gold Coast's paediatric immunisation clinics, an evaluation of maternal reasons for non-vaccination during pregnancy and engagement of parents in the planning and delivery of a school immunisation program.
- Initiation of Prevention Tracker Gold Coast in collaboration with the Australian Prevention Partnership Centre. Gold Coast is one of five sites (and the only metropolitan area) to take part in this national initiative to describe, guide and monitor systems change to improve health and wellbeing efforts in local communities.

- Coordination of the Gold Coast Health and Wellbeing Working Group. This multi-agency group is developing a strategy to address local obesity levels through community and service provider engagement, research and innovation.
- Enhancement of surveillance systems for early outbreak detection and timely public health response, in preparation for mass gathering events such as Gold Coast 2018 Commonwealth Games.
- Enhancement to outbreak control practice, such as training and support for the management of influenza in residential care facilities.
- Identification, assessment and control of environmental risk factors for disease, such as surface to human transmission of *Staphylococcus Aureus* in fitness centres and environmental risk factors for *Salmonella* Waycross.
- Evidence-based prevention activities in the community, general practice, hospital and health service sector, including the integration of Active and Healthy Recovery into Mental Health service delivery.

Public Health has been represented at several research conferences locally and internationally, and has recently been accepted to present four papers at the World Congress on Public Health in April 2017. The unit undertakes supervision of Bond and Griffith University students on research and industry placement and implementation of monthly public health education sessions and communicable disease control journal club.

Research staff

Name (qualifications)	Position	Interests / specialities
Satyamurthy Anuradha MBBS, FRCS, GCHSt, FAFPHM, MPH, PhD	Medical Officer	Infectious diseases; epidemiology; preventative health
Deena Seesaengnom BHSc, BHSc(Hons), MPH(Hons)	Senior Epidemiologist	Epidemiology; health and community services; health promotion
Paul Van Buynder MBBS, MPH, FAFPHM	Staff Specialist, Gold Coast Health Professor School of Medicine, Griffith University	Infectious diseases; epidemiology; preventative health

Supervised post-graduate students

Name	Current studies	Research topic
Feroza Arshad	MPH, Griffith University	Determining the presence of micro and radioactive organisms in sandpits and playgrounds in the Gold Coast
Ricardo Thomas	MD, Griffith University	Epidemiological investigation of Salmonella waycross notifications on the Gold Coast

Research grants

Investigators	Title	Grant body / scheme	Awarded
S Anuradha, G Pollard, I Hunter, D Seesaengnom, H Clifford, S White, F Vosti, S Jurd	Syndromic surveillance: Gold Coast feasibility study	Gold Coast Health	\$100,000
L Beecham, P Van Buynder, J Van Buynder, S Drew	Use of reminder stickers to improve pregnancy vaccination	Sanofi	\$25,000
D Seesaengnom, H Clifford, S Hughes, S Miller, M Roetteler, H Dove, G Thompson	Active and healthy recovery: A pilot study supporting individuals experiencing mental illness to engage in physical activity for health benefit and social connection	Partners in Recovery Gold Coast	\$106,300
D Seesaengnom, R Thomas, H Clifford, S Anuradha	Community jury weighing in on obesity	Gold Coast Health	\$25,000
P Van Buynder, J Van Buynder, S Drew, I Hunter, D Seesaengnom	Addressing barriers to consenting to school vaccination programs	Queensland Health Immunisation Program	\$60,000

Research projects

Investigators	Project title
S Anuradha, S Lambert	Epidemiology of Chlamydial eye infections notified in Queensland: 2000-2013
D Seesaengnom, A Robinson, S Anuradha, S Jurd, D Jurgeneit	Determining the incidence of Staphylococcus aureus in Gold Coast fitness centres
P Van Buynder, J Van Buynder, S Drew, I Hunter, R Andrews, J Sun	Barriers to pregnancy vaccination
P Van Buynder, J Van Buynder, S Drew, I Hunter, D Seesaengnom	Parental views of desirable aspects of immunisation clinics

Speech Pathology



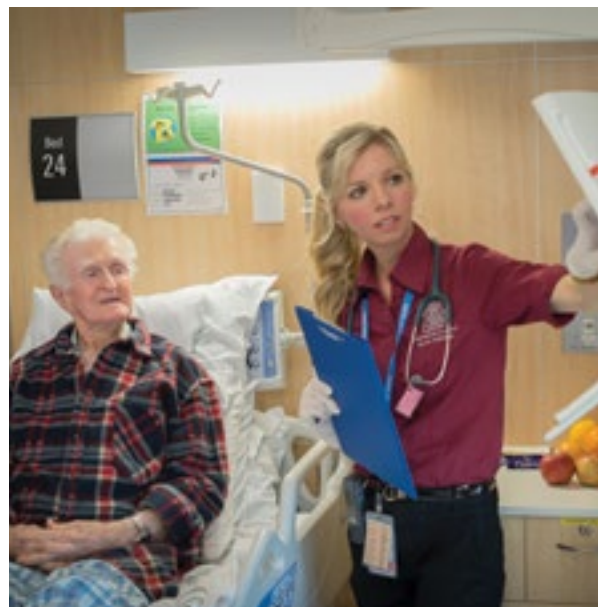
Ms Melissa Lawrie
Director

Speech Pathology services are managed operationally and professionally within the CASS division, but provide clinical services across each of the four operations divisions. Speech Pathology is comprised of 32 staff who provide both routine and specialist clinical services for paediatric and adult populations. Additional speech pathology staff are hosted in other operational divisions.

The Speech Pathology service has a strong commitment to delivering patient-focused, innovative and evidence-based services, with a strong research agenda and delivery of research outcomes. The service is currently engaged in more than 10 ethically approved research projects in collaboration with Griffith University, the University of Queensland and the Australian Catholic University; and is undertaking five systematic reviews. In addition, the service has received funding of about \$100,000 for research activities and has had two publications and more than 12 conference publications presented (or accepted for presentation). The team is also participating in three multisite national trials for the management of aphasia.

Other specific achievements include the completion of data collection (recruiting close to 400 patients) for a randomised controlled trial evaluating the effects of cough reflex testing in stroke patients, with findings to be written up in 2017 for publication by Makaela Field. Data collection for an intensive smooth speech program ‘Fluency Bootcamp’, led by Marie Hopper, and the use of aphasia friendly menus have also commenced.

The appointments of conjoint Senior Lecturer, Leah Coman and conjoint Research Fellow, Dr Kelly Weir (both at Griffith University) has led to innovative projects being initiated in the area of instrumental swallow assessments and paediatrics. With the help of Research Fellows Dr Kelly Weir and Dr Rachel Wenke, the Speech Pathology team also developed a five-year vision for their research agenda, with key strategies to monitor the ongoing operationalisation of their research plan being implemented.



Research staff

Name (qualifications)	Position	Interests / specialities
Angie Canning BSpPath	Senior Paediatric Speech Pathologist	Paediatric speech pathology; infant feeding and swallowing disorders
Leah Coman BSpPath	Assistant Director Speech Pathology Researcher / Lecturer, Gold Coast Health and Griffith University	Voice disorders; linguistic processes; psychology and cognitive sciences
Makaela Field BSpPath	Senior Speech Pathologist	Management of acute neurogenic swallowing disorders
Katherine Francis BSpPath	Senior Speech Pathologist	Treatment of neurogenic communication disorders; food services
Megan Free BSpPath	Assistant Director, Speech Pathology - Paediatrics	Models of care; paediatric speech pathology
Shelley Gapper BSpPath	Senior Speech Pathologist	Management of neurogenic swallowing disorders
Heidi Gray BSpPath	Speech Pathologist	Voice disorders; treatment of neurogenic communication disorders
Marie Hopper (nee Edwards-Giller) BSpPath	Assistant Director, Robina Hospital and Community Services	Fluency disorders; food services
Claire Jackson MSpPath	Speech Pathologist	Communication in dementia
Melissa Lawrie BSpPath	Director, Speech Pathology Adjunct Associate Professor, Griffith University	Models of care; treatment of neurogenic communication and swallowing disorders
Rachael Oorloff BSpPath	Senior Speech Pathologist	Paediatric speech pathology; infant feeding and swallowing disorders
Penelope Stabler BSpPath	Senior Speech Pathologist Head & Neck	Head and neck cancer; voice disorders
Katina Swan BSpPath(Hons)	Speech Pathologist	Communication in dementia; food services
Tracy Till BSpPath	Speech Pathologist	Communication in dementia
Megan Trebilcock BSpPath	Senior Speech Pathologist	Treatment of neurogenic communication disorders
Louise Van Dijk BSpPath	Senior Speech Pathologist	Paediatric speech pathology; infant feeding and swallowing disorders
Chloe Walton MSpPath	Speech Pathologist	Treatment of neurogenic communication disorders; voice disorders
Rachel Wenke BSpPath(Hons), PhD	Principal Research Fellow and Senior Speech Pathologist Adjunct Senior Lecturer, Griffith University	Research capacity building; models of care; treatment of neurogenic communication and swallowing disorders
Chelsea Whillans MSpPath	Speech Pathologist	Treatment of neurogenic communication disorders

Awards and achievements

Award	Event	Recipient
Improvers Award, Category 2 (up to \$50,000)	Improvers Program, Gold Coast Health: A radiology registrar training program for interpreting adult and paediatric videofluoroscopic swallow studies	Leah Coman and Kelly Weir
Improvers Award, Category 4 (up to \$10,000)	Improvers Program, Gold Coast Health: Establish and implement a support visitor programs to support laryngectomy patients recently diagnosed with communication or swallowing difficulties	Penny Stabler and Shelley Gapper

Research grants

Investigators	Title	Grant body / scheme	Awarded
A Canning, S Clarke, M Chauhan, S Thorning, K Weir	Does introducing oral feeding to infants and children requiring high flow oxygen or nCPAP facilitate full oral feeding without adverse effects? Systematic review	Clinical Backfill Grant, Allied Health	\$9,228
M Free, M Lawrie, D Shelton, K Weir	Review of service delivery model for paediatric speech pathology community services	Clinical Backfill Grant, Allied Health	\$8,528
R Oorloff, K Weir, J Willcox, A Blake, C Traicos	NMOM – Navigating the maze of mealtimes: Evaluation of a training program for parents of children with childhood feeding difficulties	Clinical Backfill Grant, Allied Health	\$6,396
P Stabler, E Ward, N Clayton, J O'Neill, S Dowthwaite, M Cronin, D Nikolarakos, R Wenke	Impact of active scar contracture management on oromotor, speech and swallowing outcomes for patients following oral resection for head and neck cancer: A pilot trial	HP Research Backfill Grant	\$9,820
K Swan, R Wenke, M Hopper, E Conway, C Jackson, T Till	Speech-language pathologist interventions for communication in moderate – severe dementia: A systematic review	Clinical Backfill, Gold Coast Health	\$9,228
L Van Dijk, S Burston, S Thorning, K Weir	Systematic review of patient and service outcomes of interdisciplinary feeding team management of infants and children with feeding and swallowing difficulties	Clinical Backfill Grant, Allied Health	\$9,232
C Whillans, R Wenke, M Lawrie, E Cardell, C Kelly, R Bala	A systematic review of group intervention for acquired dysarthria	Clinical Backfill Grant, Allied Health	\$5,800
L Worrall, D Copland, M Lawrie, E Ward, M Pattie, A Khan, J Veerman, D O'Connor	LIFT – Language impairment and functioning therapy: A stratified randomised control trial of an intensive, comprehensive aphasia program to compare patient outcomes post stroke with usual care*	NHMRC	\$751,000

* Multi-site national study

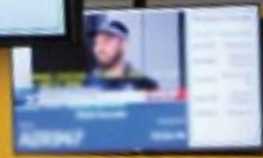


Research projects

Investigators	Project title
A Canning, K Weir, M Chauhan, S Thorning	Oral feeding for infants and children on high flow nasal cannula oxygen and continuous positive airway pressure: A survey of practice
L Coman, K Weir, E Cardell, J Richards, A Mahon, M Lawrie, R Ware	Improving videofluoroscopic swallow study interpretation in radiology registrars through a targeted training program - a prospective cohort study
S Coy, R Wenke, M Lawrie, E Cardell	Student led community based dysphagia assessment 'Dysphagia afternoon tea'
M Field, R Wenke, M Lawrie, A Sabet, M Corcoran, E Cardell	Implementing cough reflex testing in a clinical pathway for acute stroke: A pragmatic randomised controlled trial
E Godecke, E Armstrong, J Bernhardt, S Middleton, T Rai, D Cadilhac, A Whitworth, M Rose, N Ciccone, G Hankey, A Holland	VERSE – Very early rehabilitation in speech after stroke* (Local Associate Investigators – M Lawrie & R Wenke)
H Gray, L Coman, C Walton, E Cardell, K Weir, S Thorning	A systematic review comparing the voice and patient wellbeing outcomes of adults with functional voice disorders provided with traditional voice therapy and cognitive therapy versus traditional voice therapy alone
M Hopper, M Lawrie, E Cardell	Intensive smooth speech for adults who stutter: A Phase I trial of a distributed group model conducted by speech pathologists and students
M Hopper, R Wenke, S Roberts, L Bromiley, Z Hopper, A Marshall	INTENDED – Texture modified diets in dysphagia
M Rose, M Meinzer, B Ong, D Copland, L Togher, L Nickels	COMPARE – Constraint induced or multimodal aphasia rehabilitation: A randomised control trial of therapy for stroke related chronic aphasia* (Local Associate Investigator – M Lawrie)
K Swan, R Wenke, T Rose, M Hopper, M Lawrie	The use and impact of a supported aphasia-friendly menu tool in the inpatient hospital setting
R Wenke, P Stabler, L Coman, C Walton, J O'Neill, H Gray, D Theodoros, E Cardell, M Lawrie	A comparison between standard voice treatment and high intensity voice treatment programs for functional voice disorders: Phase II
R Wenke, M Lawrie, D Gunning, E Cardell	Efficient and effective subacute services for people with aphasia: How much therapy is enough

* Multi-site national study

Ticket	Location
AZ2495	Room 26
AZ2884	Service Point 4
AZ2239	Reception 2A
AZ8730	Service Point 4
AZ2495	Room 27



Area
2



Dr Mark Forbes
Clinical Director

Diagnostic, Emergency and Medical Services

Diagnostic, Emergency and Medical Services (DEMS) is a large and diverse operational division, responsible for much of the non-elective clinical work that the health service delivers.

We continue to introduce new services, and our existing services are all expanding and improving efficiencies in efforts to deal with an ongoing increase in presentations.

Despite a high clinical workload, the research and academic efforts of all levels of staff continues to increase, both in terms of volume and quality.

We are maturing as an academic institution, and this is evident in the number of projects completed and ongoing, the number of financial grants successfully applied for and the quality of publications coming from the division.

Further highlights include the Professorial appointments of three of our Emergency Department staff and the ever-increasing number of collaborative projects with each of our associated universities.

I am proud of the efforts of the staff during the period July 2015 to December 2016 and I look forward to strengthening our divisional research governance processes in the coming years. DEMS looks forward to working with the rest of the organisation as we work toward our goal to be recognised as a centre of academic and research excellence.



Cardiology

The Cardiology Unit at Gold Coast University Hospital includes the Coronary Care Unit and sub-acute (step down) Cardiac Unit. The service performs a range of clinical measurements - Echocardiography, Stress Testing, Holter and Event Monitoring. The health service has a Cardiac Catheter Suite that delivers diagnostic and interventional services.

Our collaborations with Griffith University have increased our research opportunities particularly in the area of clinical trials. Currently we have research projects arising from the Gold Coast cardiovascular

DNA bank, the PRECISE (PFO CloSuRE and Cryptogenic Stroke) multi-centre international registry, the CHAMPION (CardioMEMS Heart Sensor Allows Monitoring of Pressure to Improve Outcomes in NYHA Class III Heart Failure Patients) clinical trial and the CARS (Coumadin Aspirin Reinfarction Study) trial.

In addition there are projects under way in Accelerated Atherocoronary Metabolic Syndrome, functional capacity and cardiovascular disease and the development of new cardiovascular interventional devices.

Research staff

Name (qualifications)	Position	Interests / specialities
Greg Aroney MBBS, BSc(Hons), FRACP	Consultant Cardiologist	Evidence based cardiology; cardiovascular clinical trials
Ravinda Batra MBBS, MD, FRACP	Consultant Cardiologist	Interventional cardiology; clinical trials
Tracy Brumby RN	Research Nurse	Cardiology
Laurence Howes PhD, MBBS, FRACP, FCSANZ	Pre-eminent Consultant Physician, Cardiology Professor of Pharmacology and Therapeutics, Griffith University	Cardiology; clinical pharmacology and therapeutics; genomics; hypertension; lipids
Rohan Jayasinghe MBBS, FRACP, FCSANZ, PhD, MSpM, MBA	Medical Director Professor of Cardiology, Griffith University	Cardiology; exercise cardiology; genomics; interventional cardiology
Robert Park MB, ChB, FRACP, FCSANZ, FHRS	Consultant Cardiologist Cardio Electrophysiologist	Cardiology; cardiac electrophysiology; pacing and devices
Atifur Rahman MBBS, FRACP	Consultant Cardiologist	Interventional cardiology; clinical trials
Sharon Quinlan BSc, GCertDD, GCertCTA	Manager Clinical Trials	Cardiology; gene expression; population, ecological and environmental genetics
Lynley Schostakowski EEN	Research Endorsed Enrolled Nurse	Cardiology
Luke Shanahan BExSc, GDip Cardiac Electrophysiology, CCDS, CEPS, FHRS, MBA	A/Director, Clinical Measurement Advanced Clinical Scientist	Cardiac electrophysiology
Fayleen Turner RN	Research Nurse	Cardiology

Supervised post-graduate students

Name	Current studies	Research topic
Bryce Balmain	PhD, Griffith University	Thermoregulation during exercise in heart failure patients

Research projects

Investigators	Project title
G Aroney	SPHINX – A multi-centre double-blind randomised placebo-controlled trial of oral anticoagulation with Apixaban in systemic sclerosis-related pulmonary arterial hypertension
L Howes, R Jayasinghe, S Quinlan, T Brumby	PARAGON – A multicenter, randomised, double-blind, parallel group, active-controlled study to evaluate the efficacy and safety of LCZ696 compared to valsartan, on morbidity and mortality in heart failure patients (NYHA Class II-IV) with preserved ejection fraction
L Howes, R Jayasinghe, S Quinlan	STRENGTH – A long-term outcomes study to assess statin residual risk reduction with EpaNova in high cardiovascular risk patients with Hypertriglyceridemia
R Jayasinghe, L Howes, S Quinlan	BIOBANK – Gold Coast University Hospital Cardiovascular BioBank
R Jayasinghe, L Howes, S Quinlan	CAMELLIA – A randomised, double-blind, placebo-controlled, parallel-group study to evaluate the effect of long-term treatment with BELVIQ (lorcaserin HCl) on the incidence of major adverse cardiovascular events and conversion to type 2 diabetes mellitus in obese and overweight subjects with cardiovascular disease or multiple cardiovascular risk factors
R Jayasinghe, L Howes, S Quinlan	CANTOS – A randomised, double-blind, placebo-controlled, event-driven trial of quarterly subcutaneous canakinumab in the prevention of recurrent cardiovascular events among stable post-myocardial infarction patients with elevated hsCRP
R Jayasinghe, L Howes, S Quinlan	DNA BANK – Gold Coast Cardiovascular DNA Bank
R Jayasinghe, L Howes, T Brumby	TIGRIS Registry – Long-term risk, clinical management and healthcare resource utilisation of stable coronary artery disease in post myocardial infarction patients
R Park, R Batra, P Koovor	PROTECT-ICD Trial: Programmed ventricular stimulation to risk stratify for early cardioverter-defibrillator implantation to prevent tachyarrhythmia following acute myocardial infarction

Clinical Trials



Ms Rachael Dunning
Clinical Trials Nurse Manager

Gold Coast Health has conducted and participated in many commercially sponsored and not-for-profit trials in the past two years. Our collaboration with multinational pharmaceuticals, biotech companies and national organisations has resulted in our patients accessing an array of pharmaceutical and medical devices during their care, leading to improvements in health practices and enhancing health outcomes.



All phases of Clinical Trials (I-IV) are able to be accommodated across many health disciplines, including:

- neurosciences
- interventional neurology
- respiratory medicine
- cardiology
- nephrology
- endocrinology.

From an industry perspective, our clinical trials service was noted for the following achievements:

- highest number of participants for the AstraZeneca SOCRATES study in Australia
- commendation from Jansen for our participation in the MARINER Study
- only Australasian site reviewing the safety and efficacy of the Pipeline Embolisation Device™ with SHIELD™ Technology (flow diversion device for Intracranial Aneurysm treatment).

Gold Coast Health is providing accessibility to new and innovative treatments to improve patient outcomes that are only currently available in major centres. The Clinical Trial Unit has generated about \$35,000 in savings for the health service through its medical device safety and efficacy trials. Trial patients are often at an advantage, as they have their medical information monitored and reviewed by local specialists as well as national leaders in their medical field, when enrolled in national and international studies.

Research staff

Name (qualifications)	Position	Interests / specialities
Tracey Brumby RN, BN	Clinical Trial Coordinator	Cardiology
Rachael Dunning RN, BN, GCertHRM&D	Nurse Manager	Clinical trials; health services research
Helen McEvoy RN, DipOphthalmics	Clinical Trial Coordinator	Respiratory; endocrine; renal
Maame Amma Owusu RN, BSC, MNSt	Clinical Trial Coordinator	Neurovascular; neurology
Cheryl Rapier RN, BN	Clinical Trial Coordinator	Medical imaging; interventional radiology
Lynley Schostakowski EEN	Clinical Trial Coordinator	Cardiology
Fayleen Turner RN	Clinical Trial Coordinator	Cardiology
Berzenn Urbi RN, BN, MAdvPrac(CritCare)	Clinical Trial Coordinator	Neurology; infectious disease



Diabetes and Endocrinology

The Department of Diabetes and Endocrinology provides all tertiary-level services in the specialty. Telehealth and email services extend our research to northern New South Wales and western Queensland and our GP email advice line is an innovative and well-received service.

The main research interest of the department has been in clinical medicine and audits of health outcomes. Staff have presented at national and international meetings and have joined with Griffith University staff in progressing their research projects.

Research staff

Name (qualifications)	Position	Interests / specialties
Talib Al-Jumaily MRCCP(UK), DipDiabEndocrine, CIDC(UK), MBChB, FRACP	Staff Specialist	Cardiovascular disease
Peter Davoren BMed, MD, FRACP	Director	Endocrinology; podiatry
Katherine Griffin MBBS(Hons), FRACP	Staff Specialist	Obstetric medicine
David Irvine RN, Credentialed Diabetes Educator	Diabetes Educator	Type 1 diabetes
Mansey Kiniravala MBBS	Basic trainee	General endocrinology
Janine Paul MNutrDiet(Res), BHumanMvt(ExSc), GCertDiabEd, DipProjMgt, DipBus	Diabetes Dietician	Type 1 diabetes
Chee Tang MBBS	Advanced trainee	General endocrinology
Lisa Ward MBBS	Basic trainee	Obstetric medicine
Anis Zand Irani MBBS FRACP	Advanced trainee	General endocrinology

Research projects

Investigators	Project title
AJ Cox, P Zhang, DW Bowden, B Devereaux, PM Davoren, AW Cripps, NP West	Increased intestinal permeability as a risk factor for type 2 diabetes
P Davoren, I Singh	Anthocyanins: Possible antiplatelet alternative for aspirin resistant diabetic population
AZ Irani, PM Davoren	Endocrine indications for neurosurgically resistant prolactinomas
M Kinarivala, P Davoren	Atypical presentation of hypopituitarism
J Paul, D Irvine, P Davoren	Very low carbohydrate diets in type 1 diabetes
C Tang, P Davoren	Idiopathic hypogonadotrophic hypogonadism
C Tang, T Al-Jumaily, P Davoren	The use of continuous blood glucose monitoring in adults with type 1 diabetes mellitus
L Ward, K Griffin	Audit of obstetric and neonatal outcomes for women with pre-gestational diabetes



Emergency Medicine



A/Prof David Green
Medical Director

The Department of Emergency Medicine provides acute care emergency services to patients across two campuses. There were over 160,000 patient presentations made in the 2015-16 financial year.

Our growing relationships with Griffith University and Bond University have strengthened our commitment to research within our department. Research assists in providing quality and timely health care to the increasing number of patients seeking emergency care. New ways to deliver this care are increasingly being considered, implemented and evaluated.

Outputs arising from the growing team of active research staff over the past 18 months include:

- leading or contributing as an associate investigator on research projects funded by grants totalling over \$1.3 million dollars
- more than 30 papers accepted for publication in peer-review journals
- supervision of two undergraduate and six postgraduate health students and clinicians.

These outputs are testament to the strong and enthusiastic research leadership from Professor Gerben Keijzers and Professor Julia Crilly. Going forward, we established two Professorial joint appointments with Bond University, Professor Gerben Keijzers and Professor Victoria Brazil to help to drive emergency care research.

We congratulate Dr David Spain on receiving the John Gilroy Potts Award from the Australasian College of Emergency Medicine for his co-authorship on a published article, the content of which made a significant contribution to emergency medicine.

We also congratulate Professor Julia Crilly who in collaboration with Professor Stuart Kinner of the Griffith Criminology Institute and a team of researchers from Gold Coast Health and Menzies Health Institute Queensland, Griffith University, have recently been awarded an NHMRC project grant titled 'Improving outcomes for people with acute mental illness in the emergency department: A data linkage study'.



Research staff

Name (qualifications)	Position	Interests / specialities
Nerolie Bost BN, MN, RN	Nurse Researcher	Emergency health services research; clinical handover
Julia Crilly BN, MEmergN(Hons), PhD	Associate Professor Emergency Care, Gold Coast Health and Griffith University	Emergency health services research; staff wellbeing; nursing
Shane George BSc, MBBS, MPH, FACEM	Staff Specialist: Department of Emergency Medicine	Emergency medicine; children's critical care
Amanda Harley RN	Research Nurse	Clinical research
Christine Heenan EEN	Research Assistant	Clinical research; health services research; nursing
Joanne Hilder MSW(Q), BSocSc, GCMH	Welfare Officer	Health and community services; emergency medicine; mental health
Amy Johnston BSc(Hons), BN, GDipAdEd, MEd, PhD	Research Fellow Emergency Care, Gold Coast Health and Griffith University	Staff wellbeing; patient flow; service delivery
Gerben Keijzers MScBiomedHSci, MBBS, FACEM, PhD	Senior Staff Specialist, Emergency Physician, Gold Coast Health Professor School of Medicine, Bond University	Clinical research; critical care research; respiratory
Sarah Paul RN	Research Nurse	Emergency health services research; nursing
Richard Pellatt BA(Hons), MBChB	Registrar	Orthopaedics; trauma; airway
Josea Polong Brown RN	Research Nurse	Emergency health services research; nursing
Amy Sweeny BSc, MPH, CN	Research Nurse Research Development Manager	Epidemiology; research methods
Sarah Trehearn RN	Research Nurse	Clinical research; emergency health services research; nursing
Jasmine Wadham BA, MN, RN	Research Nurse	Clinical research; emergency health services research; nursing



Supervised post-graduate students

Name	Current studies	Research topic
Janice Bass	PhD, Griffith University	Clinical reflection
Nijole Bernatis	PhD, Griffith University	Warfarin vs. newer oral anticoagulants (non-vitamin K antagonist oral anticoagulant)
Rhonda Boorman	PhD, Griffith University	Empathy in childbearing women
Kalshani De Silva	MMRes, Griffith University	Residential and aged care community pharmacy antimicrobial stewardship system (RACCPASS) trial
Elizabeth Elder	PhD, Griffith University	Understanding and informing the working environment of emergency department staff: A mixed methods study
Andy Emanuele	PhD, Griffith University	Developing and testing a revised neonatal package to prevent neonatal death within the first 7 days of life
Anne-Marie Feary	PhD, Griffith University	Parents' experiences of seeking physical and emotional closeness with their premature infant in a single family room nursery design
Ben Gardiner	MMRes, Griffith University	Epidemiology of trauma and registries for patient outcomes
Jane Gifkin	MSc(Hons), Griffith University	A qualitative approach to the impact of shift work on eating patterns and diet in experienced and inexperienced nurses
Tanya Greaves	MEmergN(Hons), Griffith University	Impact on emergency department of an ambulance offload nurse
Susan Harvey	PhD, Griffith University	Clinical supervision
Lynda Hughes	PhD, Griffith University	Failure to fail in clinical courses for nursing students: An evaluation of processes
Kay Jones	PhD, Griffith University	Women's experience for labour and birth in the context of terminating a 2nd trimester pregnancy for fetal abnormality incompatible with life
Tamsin Jones	PhD, Griffith University	Australian standards for emergency nursing
Ng Wai Khuan	PhD, Griffith University	Evaluating a faith-based intervention on hand hygiene compliance in the United Arab Emirates
Elicia Kunst	Honours, Griffith University	The role of simulation in mental health care undergraduate nurse education
Darren McLean	MRes, Griffith University	Relational coordination: A case study of maternity care
Jamie Ranse	PhD, Griffith University	Australian civilian hospital nurses' lived experience of the out-of-hospital disaster environment following a disaster: A lived-space perspective
Judith Salvage-Jones	PhD, Griffith University	The macrophage inducible c-type lectin, Mincle, is a receptor for the yeast <i>Candida albicans</i>
Frank Stadler	PhD, Griffith University	Supply chains for maggot debridement therapy
Bethan Townsend	PhD, Griffith University	Women's experiences of water immersion on the context of a previous caesarean section
Sandra-Lee Wakefield	BN(Hons), Griffith University	Handover from emergency to other clinical areas: Critical components

Awards and achievements

Award	Event	Recipient
Best rapid fire presentation	International Conference for Emergency Nursing	Katie East
Best research presentation	Gold Coast Nursing and Midwifery Symposium	Amy Johnston
Best showcase presentation	Gold Coast Health Research Showcase	Amy Johnston
John Gilroy Potts Award	Australasian College for Emergency Medicine	David Spain

Research grants

Investigators	Title	Grant body / scheme	Awarded
A Archer-Jones, S Watkins, A Sweeny	Peripheral intravenous cannulation: an observational study of the experience of patients at Gold Coast University Hospital, and the effect of an ultrasound-guided intervention program on intravenous cannulation practice in the Emergency Department	Emergency Medicine Foundation	\$22,541
F Babl, M Borland, A West, S Dalziel, A Kochar, D Herd, M Zhang, J Hort, S George, L Barrow, K Velusamy, S Sivayoganathan, B Lawton	Bell's Palsy in children: A multi-centre randomised blinded, placebo controlled trial to determine whether prednisolone improve time to recovery at one month	Emergency Medicine Foundation	\$68,179
L Cullen, J Greenslade, W Parsonage, A Scott, J Ungerer, T Hawkins, G Keijzers, J Crilly, N Graves, A Ho	Examination of health care assessment practices and costs pre- and post-implementation of an accelerated chest pain assessment protocol	Emergency Medicine Foundation	\$69,395
S George, A Schibler, K Rasmussen, L Burman, S Simpson, S Humphreys, K Foster	Kids Thrive: Investigating a new method of intubation to reduce the risk of low oxygen levels in the blood and also prevent low blood pressure associated with the procedure	Emergency Medicine Foundation	\$282,290
G Keijzers, S Brown, G Arendts, F Kinnear, D Taylor, D Fatovich, D Cooper, R Bellomo, M Saxena, M Anstey	REFRESH – Restricted fluid resuscitation in sepsis-related hypotension	Emergency Medicine Foundation	\$54,125
R Pellatt, G Keijzers, E Tan, E Thomas, M Thomas, R Bindra, M Smith, D Lenaghan	Is minimal intervention as effective as routine immobilisation in adults with an uncomplicated closed neck of 5th metacarpal fracture? A randomised prospective study	Emergency Medicine Foundation	\$17,425
J Winearls, D Campbell, L Wake, C Hurn, D Bodnar, G Keijzers, G Ryan, J Presneill, J Furyk, J Paxton, K Walters, M Tallott, M Wullschleger, M Shuttleworth, M Trout, R Ely, S Czuchwicki, J Cohen, S Engelbrecht, J Fraser, J Walsham	FEISTY – Fibrinogen concentrate vs cryoprecipitate in traumatic haemorrhage: A pilot randomised controlled study	See listing Intensive Care Unit	

Internal Medicine



Dr Siddharth Sharma
Deputy Director

Internal Medicine has grown to have the second largest number of advanced trainees in the state. Research is a fundamental part of the Royal Australian College of Physicians (RACP) training curriculum and of the Fellowship. The majority of specialists are dual trained and spread their research broadly. Currently staff are engaged in investigator-led and commercially driven multi-site, multi-national clinical trials.

The department was part of the Griffith University Doctor of Medicine pilot program and in 2016 offered five research projects to MD students across both Gold Coast Health major campuses – GCUH and Robina Hospital. Collaborations with Griffith University

have also enabled PhD candidates' access to clinical research and clinical supervisors.

Internal Medicine has conducted numerous internal audits on troponin use, CT pulmonary angiography, D-Dimer and telemetry that have translated to local changes in practice, resulting in better patient care and cost savings. Potential opportunities continue to arise from projects such as the study of seasonal influenza epidemics and patterns that have affected the Gold Coast community over the past two years. The department is now devising tools to better prepare and manage local surges in presentations when they occur.

Research staff

Name (qualifications)	Position	Interests / specialities
Li Li Chong, MBBS	Advanced Trainee	
Elizabeth Forrest, MBBS	Resident	
Sean Leow, MBBS	Advanced Trainee	
Srinivasa Nama, FRACP	Staff Specialist	
Shivanshan Pathmanathana, MBBS	Basic Physician Trainee	Clinical sciences
Siddharth Sharma, FRACP	Deputy Director	Endocrinology
Cheng Jun Siew, MBBS	Advanced Trainee	Nephrology
Vinay Srinivasa, MBBS	Advanced Trainee	
Chee Tang, MBBS	Advanced Trainee	
Harish Venugopal, FRACP	Staff Specialist	
Suminda Welagedara, FRACP	Advanced Trainee	

Supervised post-graduate students

Name	Current studies	Research topic
Danielle Cannon	PhD, Griffith University	Understanding COPD patients' barriers to behavioural and lifestyle changes using a grief, readiness-to-change, and resilience model
Saman Khalesi	PhD, Griffith University	Evaluation of dietary intake, nutrition knowledge, quality of life, and hypertension management skills of adults with high blood pressure in Australia
Vinay Srinivasa	MClinRes, Griffith University	The CKD-FIX Study: Controlled trial of slowing of kidney disease progression from the inhibition of Xanthine Oxidase

Awards and achievements

Award	Event	Recipient
Best Poster	2016 Research Showcase, Gold Coast Health	Cheng Jun Siew

Research projects

Investigators	Project title
S Nama, J Mayer	A Phase IIB, randomised, double-blind, placebo-controlled, multi-centre study evaluating antiviral effects, pharmacokinetics, safety, and tolerability of gs-5806 in hospitalised adults with Respiratory Syncytial Virus (RSV)
S Nama	MARINER – Medically ill patient assessment of Rivaroxaban versus placebo in reducing post-discharge venous thrombo-embolism risk: A randomised control trial
S Sharma, V Srinivasa	CKD-FIX – Controlled trial of slowing of kidney disease from inhibition of Xanthine Oxidase: A double-blind, randomised, placebo-controlled trial
S Sharma	Pharmacotherapy of aggression / agitation in hospital

Neurology



Dr Meng Tan
Medical Director

Neurology at Gold Coast Health offers a broad range of cutting-edge evaluations and therapies for most categories of neurological disease.

Acute ischaemic stroke presentations are assessed in emergency by CT angiography and perfusion imaging, enabling rapid decisions about thrombolysis and endovascular clot retrieval (ECR), often by telemedicine. The first definitive evidence in favour of ECR was published in the EXTEND-IA study in 2015 which included patients treated at GCUH. The benefits of ECR are leading to a transformation of clinical practice, albeit one of which implementation nationally and internationally is limited to designated 'stroke hubs' due to the requirement for on-call interventional neuroradiologists.

We have participated in several clinical trials in stroke, both hyperacute management and secondary prevention studies. Our involvement with the Australian Stroke Clinical Registry benchmarks our clinical practice against other centres.

For severe Parkinson disease, advanced therapies are available by continuous infusion (intestinal Levodopa and subcutaneous Apomorphine). Botulinum toxin

is available to treat spasticity, dystonia and chronic migraine. Patients with epilepsy and related disorders undergo video-EEG monitoring for diagnostic clarification and pre-surgical evaluation.

Professor Simon Broadley oversees clinical care of about 500 patients with multiple sclerosis (MS) who have access to all licensed disease-modifying therapies. Gold Coast Health Neurology is the most experienced unit in Australia for using the drug Alemtuzumab for relapsing-remitting MS.

In the field of neuroimmunology, ongoing projects focus on the genetics of MS, the role of vitamin D in disease progression and the epidemiology of another autoimmune neurological disorder, neuromyelitis optica (NMO). This work is supported by an NHMRC grant and has been presented at the prestigious European Committee for Treatment and Research in Multiple Sclerosis (ECTRIMS) congress.

Other active research efforts continue in neuromuscular disease, dementia, movement disorders and epilepsy.

Research staff

Name (qualifications)	Position	Interests / specialities
Peter Bailey BSc, MD, FRCP(Ca), DipTropMedHygiene, FRACP	Staff Neurologist	Stroke and other neurological conditions
Sandeep Bhuta MBBS, DMRD, DNB, FRANZCR	Staff Neuroradiologist	Stroke and other neurological conditions
Simon Broadley BSc, MBBS, PhD	Staff Neurologist Dean of Medicine, Griffith University	Causes and treatment of multiple sclerosis (MS) and the related disorder neuromyelitis optica (NMO)
Hal Rice MBBS, FRANZCR	Staff Neurologist	Stroke and other neurological conditions
Arman Sabat BSc(Physics), MD, FRACPM	Staff Neurologist	Neuromuscular disorders; clinical neurophysiology
Kee Meng Tan MBBS, FRACP	Medical Director	Epilepsy; para-neoplastic neurological disease; autoimmune encephalopathy

Research grants

Investigators	Title	Grant body / scheme	Awarded
B Taylor, I van der Mei, R Lucas, C Blizzard, A Coulthard, S Broadley, D Williams, C Shaw	The role of environmental and genetic factors in progression of MS	NHMRC	\$945,000

Research projects

Investigators	Project title
P Bailey	Extend-IA TNK – Tenecteplase vs Alteplase before endovascular therapy for ischemic stroke
S Bhuta, A Sabat	INSPIRE – International stroke perfusion imaging registry - use the registry data to further validate the use of CTP to predict imaging and clinical outcomes, including the use of CTP to refine the selection of patients for thrombolysis
H Rice	SHIELD – Pipeline flex with shield technology TM embolisation – An international multicentre observational post market study of treated Intra Cranial Aneurysms: A phase IV post-marketing study
A Sabat	A post-marketing safety study to evaluate the occurrence of Aseptic Meningitis Syndrome (AMS) in an adult population (≥ 18 years) treated with doses of $\geq 1\text{g/kg}$ Intragam [®] 10 NF
A Sabat	EXTEND-IA START – Stroke imaging prevention and treatment – extending the time for thrombolysis in emergency neurological deficits: A randomised controlled trial
A Sabat, S Nama	MARINER – Medically ill patient assessment of Rivaroxaban versus placebo in reducing post-discharge venous thrombo-embolism risk: A randomised control trial
A Sabat	NAVIGATE ESUS – Phase III clinical trial of secondary prevention of stroke and prevention of systemic embolism in patients with a recent Embolic Stroke of Undetermined Source (ESUS)
A Sabat, K George	TASTE – Tenecteplase versus Alteplase for stroke thrombolysis evaluation

Occupational Therapy



Mrs Trudi Epple
Director

Occupational therapists are concerned with promoting health and wellbeing through occupation. This involves enhancing individuals to participate in everyday activities that they need to do, want to do and are expected to do, in order to live a meaningful and purposeful life. Occupational therapists working in hospital and community settings across Gold Coast Health achieve this outcome by enabling individuals to change aspects of their person, their occupations, their environment, or a combination of these.

Emerging research areas in the Occupational Therapy (OT) Department include rehabilitation, hand therapy, older adults, professional supervision and workplace learning.

Highlights have included:

- Leadership of a multi-site randomised controlled trial 'Education, night splinting and exercise versus usual care on recovery and conversion to surgery for people awaiting carpal tunnel surgery'.
- Receipt of a competitive grant to support six weeks clinical backfill funding for two senior Occupational Therapists to undertake formal research activities.
- Prioritised research participation and capacity building strategies as part of the Occupational Therapy 2017-2018 Operational Plan.
- A restructure of the OT professional supervision plan that has resulted in improved provision and use of evidence-based professional supervision amongst all staff. The restructure was informed by the outcomes of the research project 'Theory into practice: Enhancing occupational therapy practice through improved supervision'.

Research staff

Name (qualifications)	Position	Interests / specialities
Deborah Fitzgerald BOccThy, GCertHMgt	Clinical Education Support Officer	Professional supervision; clinical education
Aleksandra Karwaj BOccThy	Senior Occupational Therapist	Rehabilitation; patient-centred goal setting
Karina Lewis BOccThy, MPH	Clinical Specialist	Hand therapy
Janine Matus BOccThy(Hons)	Senior Occupational Therapist	Decision-making capacity assessment; workplace learning



Mrs Sonya Shrimpton and the Hon. Cameron Dick, Minister for Health and Minister for Ambulance Services

Research grants

Investigators	Title	Grant body / scheme	Awarded
T Epple, J Mahoney	Identification of elements of organisational design and how they impact on allied health service provision	Health Practitioner Research Scheme	\$20,000
M Roberts, D Fitzgerald, M Molineux	Theory into practice: Enhancing occupational therapy practice through improved supervision	Private Practice Trust Fund, Gold Coast Health	\$8,671

Research projects

Investigators	Project title
A Karwaj, D Cooke	Evaluation of the use of the Patient Specific Functional Scale (PSFS) as a goal setting tool within a rehabilitation response service
KJ Lewis, MW Coppieters, B Vincenzino, A Schmid	Education, night splinting and exercise versus usual care on recovery and conversion to surgery for people awaiting carpal tunnel surgery: A randomised controlled trial
J Matus, C Noble, S Mickan	Evaluation of an innovative support role for occupational therapists who contribute to decision-making capacity assessments

Rehabilitation



Ms Yvonne Elliott-Kemp
Service Director

Rehabilitation encompasses a Rehabilitation Response Team, three inpatient rehabilitation units, a hospital-based sub-specialty outpatient service and a Community Rehabilitation Team.

The service is committed to providing patient-centred, evidence-based care. We work in collaboration with state, national and international academic and health service partners to conduct high quality research. Key areas of research include stroke rehabilitation and implementation science.

The rehabilitation service is leading implementation research in the SMART Arm, an innovative upper limb retraining device, and is a key site in the health care improvement funded multi-site study: Building Efficient and Equitable Pathways to and through Rehabilitation in Stroke (BEEPRS).

Research in rehabilitation services has resulted in increased clinician utilisation, participation and leadership in research. It has enhanced patient care through the implementation of novel evidence-based interventions and improved processes.

Research staff

Name (qualifications)	Position	Interests / specialities
Benjamin Chen MBBS(Hons), FAFRM	Clinical Director	Rehabilitation
Aleksandra Karwaj BOccThy	Senior Occupational Therapist	Rehabilitation; neurology; goal setting
Alexandra Longmire BExScPhty	Physiotherapist, Research Project Officer	Rehabilitation
Jennifer Quail BPhty, GCertRehab	Assistant Director, Physiotherapy – Rehabilitation	Rehabilitation; stroke; upper limb recovery
Sonya Shrimpton BOccThy	Assistant Director, Occupational Therapy – Rehabilitation	Rehabilitation; stroke; upper limb recovery
Ashlea Walker BOccThy	Allied Health Lead, Allied Health Research Project Officer	Rehabilitation; stroke; upper limb recovery
Breanne Young BPsych(Hons), PhD	Senior Neuropsychologist	Single/small group case series; neuropsychology; cognitive assessment; cognitive rehabilitation; cognitive mechanisms

Research grants

Investigators	Title	Grant body / scheme	Awarded
B Chen, R Grimley, I Rosbergen, T Green, G Cadigan	BEEPRS – Building efficient and equitable pathways to and through rehabilitation in stroke	Healthcare Improvement Unit	\$320,000

Research projects

Investigators	Project title
M Barker, B Young, G Robinson	Cohesive and coherent connected speech deficits in mild stroke
K Ferguson, B Chen	Traumatic brain injury in older people: A comparison between specialist and general inpatient rehabilitation units
A Karwaj, D Cooke, S Shrimpton	Evaluation of the use of the Patient Specific Functional Scale (PSFS) as a goal setting tool within a rehabilitation response service
E Rodriguez, B Young, R Sekhon, T Butson	Early intervention in Cerebellar Cognitive Affective Disorder (CCAS)
A Walker, K Hayward, A McCluskey, S Shrimpton, J Quail, R Barker	SMART arm implementation in an inpatient rehabilitation unit to improve upper limb use early after stroke



Renal Services



Dr Murthy Divi
Medical Director

The renal service at Gold Coast Health is a tertiary unit providing support to Gold Coast, Darling Downs and northern New South Wales regions. We provide holistic renal care for patients in a safe and timely manner through various services including a renal dialysis unit, home therapies unit and integrated care.

Research activity is increasing within our unit and medical and nursing staff are actively working on

projects that have led to national and international presentations and two publications in international journals.

One of these studies, published in the journal *Nephrology*, compared administration of an anticoagulant medication (Enoxaparin) via venous versus arterial lines in patients undergoing dialysis to reduce to the likelihood of clots.

Research staff

Name (qualifications)	Position	Interests / specialities
Lorraine Bublitz RN	NP Trainee, Renal Supportive Care	Nephrology and urology; clinical services (palliative care); nursing (community)
Murthy Divi BMBS, FRACP	Staff Specialist, Medical Director	Nephrology
Jagadeesh Kurtkoti MBBS, FRACP, MD, DM, CPI	Staff Specialist, Renal Dialysis	Vasculitis; haemodialysis

Research projects

Investigators	Project title
L Bublitz, K-L Fowler, S Henderson, D Fulkco, L Grealish	Narrative survey of renal nurses – an enquiry of challenging clinical situations with people on haemodialysis approaching end of life
K Campbell, J Kurtkoti, J Kelly	ENTICE-CKD – The evaluation of individualised telehealth intensive coaching to promote healthy eating and lifestyle in Chronic Kidney Disease
M Divi, L Feltell	PDOPPS – The peritoneal dialysis outcomes and practice patterns study
J Kurtkoti, A San, S Sharma, L Stockwell, C Lee	The effect of Rituximab on patients with Nephrotic Syndrome- retrospective study of single-centre experience

Respiratory



A/Prof Pathmanathan Sivakumaran
Medical Director

The respiratory medicine service has experienced growth both in workforce and research output. Two new Senior Medical Officers, Dr Carl Pahoff and Dr Jane Basham, have extensive research experience and recently completed their specialist training and fellowships in large tertiary care hospitals across Queensland.

Our principal goal is to provide the highest quality of care to our patients with acute and chronic respiratory disorders. We believe this can be achieved through practicing evidence-based medicine, as well as contributing to the evidence by undertaking high

impact clinical research. To this end, we have a range of investigator-initiated research projects, many of which have resulted in publications in high-impact factor journals.

We also place a strong emphasis on developing the research skills of junior doctors, nurses and other allied health staff who are encouraged to undertake projects that will not only enhance their knowledge and research skills but also contribute to the health service's body of scientific knowledge about respiratory disorders.

Research staff

Name (qualifications)	Position	Interests / specialities
Iain Feather MBBS, FRACP, FCCP	Consultant Physician Respiratory and Sleep Medicine	Respiratory medicine; cystic fibrosis
Maninder Singh MBBS, FRACP	Consultant Physician Respiratory and Sleep Medicine	Respiratory medicine
Pathmanathan Sivakumaran MBBS, MRCP, FRACP	Medical Director A/Prof School of Medicine, Griffith University	Chronic obstructive pulmonary disease; pulmonary hypertension
Bajee Krishna Sriram MBBS, FRACP, PhD	Consultant Physician Respiratory and Sleep Medicine	Chronic obstructive pulmonary disease; lung cancer; sleep medicine

Research projects

Investigators	Project title
B Sriram, J Mackintosh, K Harland	Effect of music during pleural procedures: A randomised controlled study of anxiety, perceived pain and satisfaction

Transitional Care



Mrs Lesley English
Acting Service Director

Chronic Disease and Post-acute Programs delivers community-based secondary chronic disease management programs (complex needs) and post-acute community nursing and allied health services.

The service has formed several partnerships to progress innovative research aimed at improving community access and increasing the capacity of the community to support client transition to physical activity and other options:

- In partnership with the Griffith University School of Medicine, the team is using a Grief, Readiness, Resilience and Shared Decision Making Model to understand Chronic Obstructive Pulmonary Disease (COPD) patients’ barriers to pulmonary rehabilitation participation.
- In partnership with Griffith University Physiotherapy, the team is determining exercise-induced oxygen desaturation and perceived breathlessness in patients with COPD using a six-minute walk test and grocery shelving task. The study aims to validate our use of upper limb activity in Pulmonary Rehabilitation.

- In partnership with the Bond University Physiotherapy Intern Program, the team has been working with the Heart Failure Service to develop a database of clinical outcomes that will provide several years of research analysis around chronic disease management.

A number of research studies have led to publications including:

- Development of a multidisciplinary team approach to behavioural modification for weight management in a community health group setting: Appetite 4 Change.
- Development and utilisation of an Intensity Grading Tool to inform GPs, consumers and health providers about the level of intensity of specific community options.
- Development of a Diabetes Exercise Guideline to support delivery of care during exercise for clients with diabetes in cardiac, pulmonary and heart failure Rehabilitation and Multiple Sclerosis Fitness.

Research staff

Name (qualifications)	Position	Interests / specialities
Daniel de Bruyn BPhy(Hons)	Physiotherapist	Physiotherapy; neurology and neuromuscular diseases; health and community services

Research projects

Investigators	Project title
D de Bruyn, M Raine, S McBride, N Rando, R Pope	Community-based task-specific circuit class therapy for elderly patients in the first six months after stroke: A feasibility study

Vascular Surgery



A/Prof Mark Jackson
Director

The vascular service is a busy clinical service with active clinical research interests. We collaborate with research academics based at Southern Cross University, Griffith University, The University of Queensland and Queensland University of Technology. Within GCUH, the vascular unit has a close clinical working relationship with renal, interventional radiology, endocrinology and podiatry departments. In particular, the unit actively participates in Australian multi-centre research trials including the Covered Versus Balloon Expandable Stent Trial (COBEST), the SHIELD first-in-man

multi-centre investigation of pharmacological interventions adjunct to peripheral angioplasty and the pilot Severe Limb Ischaemia Registry (SLIR).

Service modifications as a result of clinical research include the ultrasound assessment of arteriovenous fistula and grafts, management of patients with critical limb ischaemia and acute diabetic foot wounds and provision of minimally invasive techniques for varicose veins. In many cases this has resulted in greater efficiencies and cost savings.

Research staff

Name (qualifications)	Position	Interests / specialities
Mark Jackson MBBS, FRACS, MD	Consultant Vascular Surgeon	Peripheral arterial; renal vascular access; skills assessment

Supervised post-graduate students

Name	Current studies	Research topic
Jeanette Travis	PhD, Southern Cross University	Diabetic ulcers-investigation of biofilms and treatment therapies

Research projects

Investigators	Project title
M Jackson, J Lancashire	Vascular access in renal patients study
M Rashid, M Jackson, R Ward-Harvey, T Snow	SHIELD pilot trial – A multicentre, parallel, blinded, randomised comparison of the safety and efficacy of balloon angioplasty plus intraluminal SBCV (SymicBio CardioVascular) to balloon angioplasty alone for treatment of stenosis or occlusion within the femoropopliteal artery





Dr Kathryn Turner
Clinical Director

Mental Health and Specialist Services

Gold Coast Health Mental Health and Specialist Services (MHSS) has seen many innovative changes and positive growth in research capacity and activity in 2015 and 2016. Considerable effort has gone into improving the capacity to support researchers and improve research governance, as well as to directly increase research activity, which has been guided by the Gold Coast Health Research Strategic Plan 2015-2017. These initiatives are discussed within the framework of the Gold Coast Health Research Strategy.

MHSS has made a firm commitment to embedding research as core business. The service has seen considerable growth in activity since July 2015, with the rollout of new and innovative clinical services. Possibly the largest change to core business has been in the form of the Gold Coast Suicide Prevention Project. This project uses the Zero Suicide Framework to improve outcomes for consumers who present with suicidal markers. Clinical rollout for this project commenced in December 2016, with a simultaneous rollout of an extensive data gathering and evaluation program. This reflects our commitment to embedding structured data collection, for both quality and also research purposes, into new services. This project has employed a research assistant to gather and evaluate data.

Innovative new services, such as the MHSS Mother-Baby service and the MHSS Pain Service have also been funded for research assistants, while new programs in MHSS Alcohol and Other Drugs Services (AODS) employ two research assistants. This brings the number of research assistants currently in MHSS to five.

Significant effort has gone into providing increased research support and further streamlining research governance. MHSS has released a guide to research document which provides detailed information on research processes, research governance and available resources to support staff members, particularly new researchers, wanting to pursue projects.

In addition, other resources were created and include a software tool for creating a basic research budget and a research funding directory and calendar, which is a living database available to researchers in the field of mental health. MHSS also has a group of 17 mentors to assist researchers. The Research Sandbox was established as a support group and provides an opportunity for members to network at regular meetings. The strategy of putting multiple supports in place represents a more long-term approach to building research capacity, especially for junior staff members, trainees and students.

The division has built partnerships with various organisations in the process of progressing some of the larger research projects. These include Griffith University, Bond University, The University of Queensland and the Gold Coast Primary Health Network. While MHSS continues to focus on building the capacity for research translation, the focus is on education, growing a research culture and change leadership.

Alcohol and Other Drugs Service



Prof Kevin McNamara
Director



Alcohol and Other Drugs Service (AODS), which sits within Mental Health Specialist Programs, is a complex service line encompassing many teams. Research is developing in the following areas:

- The Persistent Pain Program where the project, 'Allied Health Pathway for persistent pain' has allowed Gold Coast Health to manage its pain service waiting list and enabled provision of timely and effective interventions to the general public suffering chronic pain conditions.
- The AODS Ice project which, following an initial review of data, has informed realignment of AODS service provision. This directly influences the health service's ability to deal with the methamphetamine drug ice epidemic and has facilitated increased AODS services to the Emergency Departments.

Research staff

Name (qualifications)	Position	Interests / specialities
Hesitha Abeysondera MBBS, RANZCP	Consultant Psychiatrist	Dual diagnosis; alcohol tobacco and other drugs; mental health
Darren Doherty MMusculoskeletalSportPhty, MPhtySt, BAppSchMS	Physiotherapist	Chronic pain; musculoskeletal; neurophysiology
Tamara Edwards BPsychSc	Research Officer	Ice response project; trends and epidemiology in drugs and alcohol
Simon Langston BBus, BAppSc, GDipAppSc, MPsychH, MPsychCl	Director, Psychology	Hepatitis C; post traumatic stress disorder
Suzi Orschulok BPsych, PGDipPsych, MPsychFor	A/Service Development and Research Coordinator	Forensic psychology; health and community services; mental health
Margaret Vandermost PGDipAppPsych	Senior Psychologist	Chronic pain; acceptance and commitment therapy; psychological interventions

Research grants

Investigators	Title	Grant body / scheme	Awarded
H Scriven, D Doherty, L Ward, J Head, K Clark, M Andrews	A pilot evaluation of a tele-health 'Virtual Group' model for delivery of persistent pain management for rural / remote patients	Health Practitioner Research Scheme	\$25,000

Research projects

Investigators	Project title
H Abeysundera, B Ng	A retrospective study to determine the impact of having a dual diagnosis on two specific outcomes for patients who are on the Opioid Treatment Program (OTP), namely duration of stay on the OTP and relapse rates of mental illness
S Langston, M Edwards	Impact of bio-medical markers and psychosocial variables on Hepatitis C adjustment and treatment outcomes



Child and Youth Mental Health Services



A/Prof Savio Sardinha
Medical Director

The Child, Youth and Young Adult Mental Health Service (CYMHS) is a tertiary service that deals with the mental health needs of people in our community aged 0-25 years. The service follows the Biopsychosocial model with health promotion and prevention as a central philosophy of early intervention to promote positive mental health for the individual within the family system. The service aims to incorporate contemporary evidence-based approaches up to transition age (16-25), recognising the needs of the individual to be independent with support.

In addition to an acute inpatient service, CYMHS has two units for clients aged less than 18 years and 18 to 25 years. There are a range of community-based services including an acute care (ACCESS) team that operates during working hours and manages acute crises as well as brief community-based assessment and interventions and two community teams that manage clients aged 0-18 years and their families. In addition, specialty teams address certain clinical and system complexities including:

- early psychosis team for clients aged 15-25 years
- eating disorder program
- assertive mobile youth outreach service for non- engaging complex needs clients

- infant mental health for 0-4 years with developmental and attachment related difficulties
- Evolve Therapeutic Service, specialist intensive therapeutic interventions for children in care.

Research being undertaken in CYMHS falls under the themes of:

- early psychosis (biological, genetic and endo-phenotypes in first episode psychosis)
- stem cell research to study differential pharmacological effects in early psychosis
- augmentation with supplements in early psychosis (CADENCE) study
- eating disorders
- Cognitive Behavioural Therapy versus Attention Based Family Therapy in adolescents and young adults
- neurodevelopmental disorders looking at collaborative approaches between developmental paediatrics and child psychiatry in children with Autism Spectrum Disorder and Attention Deficit Hyperactivity Disorder.



Research staff

Name (qualifications)	Position	Interests / specialities
Kim Hurst BAPsych, GDipPsych, BSocSc(Hons)	Senior Psychologist	Mental health; health, clinical and counselling psychology

Awards and achievements

Award	Event	Recipient
Nomination, Peter Beumont, Young Investigator Prize	Australia & New Zealand Academy for Eating Disorders Conference 2016	Kim Hurst

Research projects

Investigators	Project title
H Green, K Hurst, A Bleasdale	Comparing two treatments for Anorexia Nervosa in an Australian outpatient setting
H Green, K Hurst, H Thompson	Evaluating the implementation of Maudsley Family Based Treatment (FBT) into Child and Youth Mental Health Service (CYMHS), Gold Coast
K Hurst, M Zimmer-Gembeck	Placing the focus on perfectionism in female adolescent Anorexia Nervosa: augmented Maudsley Family Based Treatment (FBT and CBT)



Consultation Liaison Psychiatry



Prof Chris Stapelberg
Senior Staff Specialist

Consultation Liaison Psychiatry (CLP) is a specialised mental health service which provides assessments and brief interventions to adult inpatients of the general medical, surgical and intensive care wards at GCUH and Robina Hospital.

It is a consultation model of service, assisting general medical treating teams in the diagnosis, management and referral of their patients who are suffering from a mental illness, psychological distress or behavioural disturbance. The CLP service assists and provides expertise and education for mental health presentations within specific specialty areas such as renal medicine, perinatal medicine, intensive care medicine, rehabilitation services and palliative care services.

CLP is a field which frequently deals with biological psychiatry. Our research interests therefore reflect the biological mechanisms which underlie presentations with mental illness. The concept of a holistic approach to mental illness is also embedded in the practice of psychiatry and psychology with the biopsychosocial model. This holistic framework can also be extended to systems biology, an interdisciplinary field of study that focuses on complex interactions within biological systems.

Data gathering began in 2016 for the Body and Mood, Biomarkers in Depression Pilot Study. The overall aim of the study is to determine whether biomarkers could be used as quantifiable markers in the diagnosis and assessment of major depression. The study employs a systems biology framework, investigating biomarkers as representative of the physiological network of mechanisms which underlies major depression.

Research staff

Name (qualifications)	Position	Interests / specialities
Chris Stapelberg BSc(Hons), MBBS, PhD, FRANZCP	Senior Staff Specialist Clinical Lead in Mental Health (Psychiatric), Griffith University	Psychiatry (including psychotherapy); biological psychology (neuropsychology, psychopharmacology, physiological psychology); systems biology

Awards and achievements

Award	Event	Recipient
Learning and Teaching Citation	Griffith University Group Learning and Teaching Citation Awards 2016	Chris Stapelberg
Nomination, Doctor of the Year	Gold Coast Health Golden Gala Awards 2015	Chris Stapelberg

Research grants

Investigators	Title	Grant body / scheme	Awarded
C Stapelberg, S Brandis, D Neumann, D Shum, M Blumenstein, B Stantic, V Muthukumarasamy, H Chenery	Body and Mood: Biomarkers in depression pilot study	Private Practice Trust Fund, Gold Coast Health	\$89,912

A woman with long dark hair, wearing a dark lab coat over a white shirt with a 'FEISTY' lanyard, is working in a laboratory. She is wearing white gloves and using a pipette to transfer liquid into a blue and white laboratory instrument. The background shows a typical lab setting with various pieces of equipment and papers.

ROTEM® GUIDED THERAPY

The aim of this observational project was to develop and implement a protocol which allowed for the assessment of blood clotting potential of patients suffering from trauma and/or critical bleeding. Assessment of blood clotting was performed using a Point of Care ROTEM® and Multiplate platelet function analyser.

ROTEM® guided therapy was targeted at all patients meeting the requirement of trauma activation at GCUH. Implementation of the protocol, achieved through interdisciplinary collaboration, occurred over a 15 month period with protocol compliance increasing to 73% during that time.

Data obtained through this observational study facilitated the development of the FEISTY protocol which investigates the feasibility of early fibrinogen replacement in traumatic haemorrhage utilising fibrinogen concentrate or cryoprecipitate. The FEISTY study is under way and involves four major trauma centres in Queensland.



A/Prof Deborah Bailey
Clinical Director

Specialty and Procedural Services

Specialty and Procedural Services (SaPS) is a large and complex operational division that covers a diversity of clinical service groups including- Perioperative and Critical Care; Head, Neck, Oral and Neurosurgical; Surgical and Musculoskeletal Services; and Women's, Newborn and Children's Health.

Across the division there is considerable research activity in all clinical specialities. Within these groups we have conjoint and adjunct professors, as well as visiting research fellows, leading research activity. We are building our research capacity through the supervision of seven PhD students and Doctor of Medicine (MD) students who are undertaking a range of quality and research activities.

Our academic partnerships have led to programs of research attracting large competitive grants. These programs include targeted coagulation management in severe trauma, family-partnered care pathways for critically ill older patients, educational programs and models of care for midwifery, and the utilisation

of 3D printing for a range of orthopaedic injuries. A particular highlight is the recent announcement of the NHMRC-funded Centre for Research Excellence in Stillbirth of which Professor David Ellwood, Professor of Obstetrics and Gynaecology and Director of Maternal and Fetal Medicine, is a chief investigator. Being a national collaborative, establishing this centre will lead to growth in the research footprint across this very important area that will benefit women and families across Australia.

The SaPS clinical trials portfolio is increasing with both commercial and investigator-led trials occurring in critical care, breast cancer, orthopaedics and maternity. With the involvement of SaPS research leaders on research committees at divisional, operational and strategic levels and the support of the Office for Research Governance and Development, the opportunities for staff to engage in research will continue to grow.



General Surgery



Dr Michael Von Papen
Director

General Surgery at GCUH is comprised of five units - colorectal, hepatobiliary, upper gastrointestinal, acute surgery and breast and endocrine. There are about 7800 general surgery admissions a year, both emergency and elective.

We have two accredited Fellow positions - Colorectal Fellow through the Australian and New Zealand Training Board in Colon and Rectal Surgery (ANZTBRCRS) and the Breast and Onco-Plastic Fellow through Breast Surgeons of Australia and New Zealand.

General Surgery has strong links with Griffith and Bond Universities providing surgical education and research opportunities to medical students.

The colorectal unit contributes to the Bi-National Colorectal Cancer Audit (BCCA) of the Colorectal Surgical Society of Australia and New Zealand for quality assurance and research. It is also participating in the Transanal Total Mesorectal Excision (TaTME) Registry which is an emerging surgical technique for rectal cancer.

Research staff

Name (qualifications)	Position	Interests / specialities
Thomas Arthur BSc, MBBS	General Surgery Trainee	Surgery
John Gault MB, Bch, BAO, FRACS	Consultant Surgeon	Surgery; cancer therapy
Lucy Guazzo BSci MBBS MSurg	Principal House Officer	Surgery
Elizabeth Harrison MBBS	Principal House Officer	Surgery
John Li MBBS	Principal House Officer	Surgery
Rhea Liang BAEd, MSurgEd, MBChB, FRACS	Consultant Surgeon	Surgery; cancer therapy; medical education
Dionea Liefmann MBBS	Principal House Officer	Surgery
Harald Puhalla MD, FRACS, PhD	Hepatobiliary Surgeon A/Prof Griffith University	Surgery; medical education; metabolic/ bariatric surgery; HPB surgery
Carolyn Vasey MBBS, FRACS	Colorectal Fellow	Surgery
Michael Von Papen FRACS	Director Colorectal and General Surgeon	Surgery

Supervised post-graduate students

Name	Current studies	Research topic
Carolyn Vasey	MSurgEd, University of Melbourne	Parenthood and surgery

Awards and achievements

Award	Event	Recipient
Ian and Ruth Gough Surgical Education Scholarship 2015	Royal Australasian College of Surgeons	Rhea Liang
Inaugural Recipient, John Collins Educational Research Development Prize 2015	Royal Australasian College of Surgeons	Rhea Liang

Research grants

Investigators	Title	Grant body / scheme	Awarded
R Liang, R Alzubaidy, R Alzuhairy, C Saunders, E Elder, C Chong	ROLLIS – The randomised control trial – Radioguided Occult Lesion Localisation using I-125 Seeds	New Technology Funding Evaluation Program Queensland Health	\$92,304

Research projects

Investigators	Project title
T Arthur, R Gartrell, B Manoharan, D Parker, K Sharpe	Outcomes of emergency appendicectomy in Australia; A multi-centre prospective study
T Arthur, A Phillips, Z Franks, S Pearce	Redesigning informed consent; enhancing risk communication through a novel data visualisation tool
S Bell, M Von Papen	ADIPOSE – Australasian decrease in intra-pelvic obesity for surgery trial – using very low energy diets to reduce weight and improve outcomes in obese patients undertaking laparoscopic rectal cancer surgery



Intensive Care Unit



Dr Andrew Semark
Director

The GCUH Intensive Care Unit (ICU) is a closed model Level 3, 22-bed unit with about 1800 admissions per year. The ICU is a busy environment that provides comprehensive, holistic team-based care where the best available evidence is used to produce clinically important outcomes for patients and their families. Undertaking clinical research is an integral part of care in the ICU and is designed to improve the diagnosis, prognostication, monitoring and treatment of critically ill patients, including effective management of end-of-life care.

Clinicians in ICU work in collaboration with national and international ICUs, the Australian and New Zealand Intensive Care Society (ANZICS) Clinical Trials Group and academic partners to conduct high quality research in a local, state, national and international context. Key areas of research include

targeted coagulation management in severe trauma that has resulted in the development, refinement and implementation of algorithms and protocols for assessment and management of coagulation in critical bleeding. The ICU also hosted the first multi-site multi-department randomised controlled trial study 'FEISTY – Fibrinogen concentrate vs cryoprecipitate in traumatic haemorrhage: A pilot randomised controlled study'.

Research to improve quality and safety in the ICU has resulted in improved structures and processes for handover of critically ill and postoperative patients, including evaluation of sedation practice in a single room environment, timely management of critically ill patients admitted to ICU direct from the Emergency Department, and innovative approaches to providing education in a single room environment.

Research staff

Name (qualifications)	Position	Interests / specialities
Greg Comadira MBBS, FACEM, FJFICM	Staff Specialist	Intensive care
Maimoonbe Gough RN, GCertCritCare	Clinical Nurse Research	Clinical trials; intensive care
Andrea Marshall RN, PhD, FACN, FACCCN	Professor of Acute and Complex Care Nursing, Gold Coast Health and Griffith University	Implementation science; nutrition; critical illness and improving outcomes from critical illness
David Pearson MBBChair, GCICM	Staff Specialist	Intensive care
Brent Richards MBChB, FRACP, FCICM	A/Director, Innovative and Clinical Research	Biomedical engineering; pharmaceutical sciences; intensive care
Mandy Tallott RN, GDipCritCare, MCritCare	CNC Clinical Research Coordinator	Clinical trials coordination
James Winearls MBBS, MRCP, FCICM	Staff Specialist	Intensive care; coagulation

Supervised post-graduate students

Name	Current studies	Research topic
Laura Alberto	PhD, Griffith University	Sepsis early identification in general medical-surgical hospitalised patients
Lauren Gurney	Honours, Griffith University	ROTEM® Neuro Coiling
Matt Hedge	Honours, Griffith University	ROTEM® Cardiac
Tegan Roberts	Honours, Griffith University	Heart rate variability in trauma
Megan Shuttleworth	PhD, Griffith University	ROTEM® Trauma
Matt Wells	PhD, Griffith University	Heart rate variability

Awards and achievements

Award	Event	Recipient
Best short paper	College of Intensive Care Medicine Annual Scientific Meeting 2016	Brent Richards
Research project of the year	Gold Coast Health Golden Gala Awards 2015	James Winearls
Best presentation	Swan Trauma Conference 2016	James Winearls

Research grants

Investigators	Title	Grant body / scheme	Awarded
J Bellopart, J Winearls, M Cartner, J Lipman, J Stuart	ET 1 SAH: Prognostic evaluation of plasma Endothelin-1 in SAH	Gold Coast Hospital Foundation	\$10,000
F Lin, A Marshall, M Murphy	Implementing strategies to reduce central line associated blood stream infections in a tertiary intensive care service: A knowledge translation study	School of Nursing and Midwifery, Griffith University	\$7,500
H Stelfox, D Heyland, P Boucher, B O'Neill, D Robertson, P Wickson, D Zygun, P Allatt, S Au, B Berg, R Cohen, D Coyle, A Day, J Downar, W Ely, K Fiest, L Gramlich, C Grant, B Harries, M Hartwick, J Holroyd-Leduc, J Jenkins, K Kyeremanteng, M Mourtzakis, D Niven, S Oczkowski, E Papatathanasoglou, L Parsons, M Potestio, A Rahman, K Rockwood, A Roze des Ordons, M Shaw, S Sinclair, T Sinuff, Y Skrobik, K Stajduhar, S Straus, K Thavorn, A Turgeon, V Vandall-Walker, P Oxland, C Doig, M Eisenstat, N Foster, L Stewart, S Debigare, R Harvie, C Hatcher, P Hruska, K Zjadewicz, N Brummel, J Curtis, J Davidson, A Marshall, D Needham, S Sheppard, R Stapleton, A Turnbull, L Van Scoy, T Walsh	Development and evaluation of a family-partnered care pathway for critically ill older patients	Canadian Institutes of Health Research	\$1,388,754
J Winearls, D Campbell, L Wake, C Hurn, D Bodnar, G Keijzers, G Ryan, J Presneill, J Furyk, J Paxton, K Walters, M Tallott, M Wullschleger, M Shuttleworth, M Trout, R Ely, S Czuchwicki, J Cohen, S Engelbrecht, J Fraser, J Walsham	FEISTY – Fibrinogen concentrate vs cryoprecipitate in traumatic haemorrhage: A pilot randomised controlled study	National Blood Authority Emergency Medicine Foundation Private Practice Trust Fund, Gold Coast Health	\$172,977 \$292,937 \$117,948





Research projects

Investigators	Project title
J Cohen, J Winearls, B Venkatesh	A comparison of the plasma total and free cortisol response in traumatic brain injury
A Marshall, M Wullschleger, S Roberts, L Wake, D Pearson	A systematic review of nutrition intake in trauma
A Marshall, J Winearls, M Tallott, N Murphy, M McNamara	An observational study of sedation practice in a single room environment in ICU
A Marshall, W Moyle, L Aitken	Potentially modifiable predictors of outcomes for elderly critically ill patients
A Marshall, D Pearson, A Spencer, M Aiken	Predictive equations for estimating energy demand in critically ill patients: Agreement with measured energy expenditure
N Murphy, A Marshall, W Simpson, B Gillespie, G Comadira	A knowledge translation to improve handover from operating theatre to ICU
J O'Dwyer, J Crilly, A Marshall, M Tallott, D Figures, B Richards, D Green	An observational cohort study of outcomes of patients admitted to the Intensive Care Unit directly from the Emergency Department
B Richards	A Phase III, placebo-controlled, randomised, double-blind, multi-centre study of LJPC-501 in patients with Catecholamine-Resistant Hypotension (CRH) shock
B Richards	A prospective, randomised, double-blind, multicenter, Phase III study to assess the safety and efficacy of intravenous Ceftolozane / Tazobactam compared with Meropenem in adult patients with ventilated Nosocomial Pneumonia
B Richards	A randomised, double-blind, placebo controlled, Phase III study to assess the safety and efficacy of ART-123 in subjects with severe sepsis and coagulopathy 3-001
R Walker, A Marshall, M Cooke, L Aitken	Enhancing recognition and response to clinical deterioration of postoperative patients
J Winearls, B Venkatesh	ADRENAL – Adjunctive Corticosteroid treatment in critically ill patients with septic shock
J Winearls, A Bulmer, D Pearson, J Fraser	Critical evaluation of a targeted Point Of Care (POC) ROTEM® in critical bleeding; trauma, neuro coiling and cardiac

Orthopaedics



Prof Randy Bindra
Research Director



Dr Don Pitchford
Medical Director

The orthopaedic service is staffed by 13 consultant surgeons and 26 trainee surgeons, and provides a comprehensive and specialised trauma and orthopaedic service to the Gold Coast area as well as northern New South Wales. With the large number of patients seen in clinics and a relatively captive population, the department has the potential for long-term epidemiological studies and the opportunity to measure the effectiveness of surgical intervention on various conditions. Changes and improvements in the electronic medical records will further enhance the ability to capture and review data.

GCUH's proximity to Griffith University allows us the opportunity for collaborative research with various departments that share common interests, such as engineering, industrial design, anatomy and regenerative medicine.

Orthopaedics is proactive in developing new approaches to improving assessment, monitoring and treatment of musculoskeletal conditions. Some of these approaches have progressed research projects while others have the potential to do so. Research under way includes:

- The development of a tool for measuring foot deformity in children, funded by a \$25,000 Gold

Coast Health Improvers Award, presented to Dr Nanda Kumar.

- The Queensland Hand Society awarded Prof Randy Bindra \$10,000 to study the development of an artificial ligament for the wrist. Professor Bindra also led a study on the utility and cost effectiveness of collagenase injection as an alternative to surgical treatment for musculoskeletal conditions and has pioneered its use in the state's public health system.
- A study on open tibia fractures by Associate Professor Ezekiel Tan has resulted in the creation of a multidisciplinary team and dedicated operating lists for expediting care of major limb injuries at GCUH.
- The department has conjoint projects with radiology and is studying technical aspects of anterior cruciate ligament (ACL) reconstruction in the knee and benefits of 3-D printing in planning fracture fixation, which will facilitate and enhance positive surgical outcomes. We have evaluated the stability of fixation of radial head fracture at the elbow in collaboration with engineering and this will facilitate surgery.
- The orthopaedic team is working with the Department of Regenerative Medicine and the Mayo Clinic, USA, to create replacement tissue for wrist ligament injuries.

Research staff

Professor of Orthopaedics	
Randy Bindra FRACS, MSOrth, FRACS, MChOrth, FAAOS	
Orthopaedic Consultants	
Jason Beer MBBS, BSc, FRACSOOrth, FAOrthA, CIME	Ezekiel Tan MBChB, FRACSOOrth
Price Gallie MBBS, FRACS	Fraser Taylor MBBS, FRACSOOrth, BScChemistry
Haig Lennox MBBS, FRACS	Michael Thomas MBBCh, MRCS, FRCSTr&Orth, AMC Cert, FRACSOOrth
Don Pitchford MBBCh, FRACS, FCS(SA)Orth, FAOrthA	Francois Tudor MBBS, BSc(Hons), MSc, FRCS Tr&Orth, FRACSOOrth
Simon Platt MBChB, FRCSTr&Orth, PGCert	
Orthopaedic Registrars	
Will Cundy MBBS	Andrew McBride MBBS, BPhysio
Ulf Landgraf MBBS	Andrew Stillwell MBBS
Principal House Officers	
Monpetta Brunt-MacKenzie MBBS	Matthew Knight MBBS
Nanda Kumar Sakaleshpura Chandrashekar DNBOrth, MBBS, MHSM, MBA, ADHA, ADST	Andrew McLean MBBS, BPhysio
Luca Daniele MBBS	Alf Phillips MBBS
Jason Fletcher MBBS, BPhysio, BESC	Nathan Price MBBS, BMedSc
Conor Gouk MBChB, MSc	Anthony Silva MBBS, BSc(Hons), MSc
Dan Heitman MBBS	Drew Tarrant MBBS
Christopher Ioannou MBBS, BAppMedSc, BAppSc(Hons)	Nicholas Whitworth MBBS, BPhysio
Henry Kan MBBS	
Senior House Officer	Medical Physicist
Hannah Kennelly MBBS	Timothy Ireland MMedPhys, BSc
Interns	
Benjamin Peachey MBBS, BPharm	



Awards and achievements

Award	Event	Recipient
Clinical Educator of the Year, Queensland	Confederation of Postgraduate Medical Education Councils	Randy Bindra
Improvers Award, Category 3	Improvers Program, Gold Coast Health for the project: Develop a device to enable clinicians to assess club foot deformity more objectively and help treat these children in a better way	Nanda Kumar Sakaleshpura Chandrashekar

Research projects

Investigators	Project title
N Chandrashekar, J Reidy, G Keijzers, J Matthews, H Lui	Jump safe study: A study of musculoskeletal injury profile from trampoline injuries
L Daniele, H Lennox, M Brunt-MacKenzie	Anterior vs posterior hip
L Daniele, E Tan, P Rebgetz, N Price, H Kenelly	Distal biceps rupture
H Kan, P Gallie, A McBride, U Landgraf, A McLean	Monoblock vs modular hemiarthroplasty for neck of femur fractures – Is there still a role for the monoblock in today's orthopaedic practice?
A McLean, J Matthews, R Bindra	Bacteriology and antibiotic sensitivity of community acquired musculoskeletal infections in an Australian coastal community
R Pellatt, R Bindra, E Tan, M Thomas, G Keijzers, D Leneghan	Minimal intervention in boxer's fractures
A Phillips, P Gallie	Evaluation of a novel lower radiation computed tomography protocol for assessment of tunnel position post anterior cruciate ligament reconstruction
M Rayner, C Gouk, M Thomas, R Bindra	Is watchful waiting a viable option in the treatment of distal radius fractures? Safe in the knowledge that distal radius osteotomy can be performed for poor functional outcome
F Taylor	Graft jacket review
N Whitworth, E Tan	Relevance of social media in modern orthopaedic practice





SURGICAL SAFETY CHECKLISTS IN THE OPERATING THEATRE

The proper use and application of surgical safety checklists in practice is associated with improvement in clinical processes, however the accuracy around this practice is inconsistent.

This research translation project aimed to evaluate the feasibility and acceptability of implementing strategies to support surgical teams' use of the surgical safety checklist in the operating room.

The Pass the Baton (PTB) intervention was designed to improve the use of the checklist. In partnership with clinical staff, strategies were developed and implemented, including change champions/opinion leaders; education; reminders; audit; and feedback.

Structured observations of checklist use were conducted at baseline, and at 6 and 12 months following implementation of the PTB intervention. Results indicated significant improvements in observed use of checklist items. Participants reported that communications around the checklist items were better and surgical teams were more often on the same page.

The PTB intervention has been so successful in changing practice around checklist use that it is now being implemented in the operating rooms of Robina Hospital.

Trauma



A/Prof Martin Wullschleger
Director

The GCUH trauma service provides a case management service to multi-injured trauma patients, managing about 1200 patients every year. The trauma service prides itself on providing comprehensive, holistic team-based care and valuing clinically important outcomes using best evidence-based practice for patients in trauma.

As an academic and research facility, conducting clinical research is integral. The trauma team facilitates and participates in research to help improve the ICU environment and improve the diagnosis, prognosis, monitoring, treatment and recovery of multi-injured trauma patients and their families. The service supports research initiatives that are local, state, national and international.

In conjunction with the ICU, we are developing a program of research on targeted coagulation management in severe trauma. The results of this research have been instrumental in implementing ROTEM® (POC) into clinical practice and providing ROTEM® guided blood product transfusion to critically injured trauma patients. This project and initial results have been presented at multiple conferences nationally and worldwide. Currently there is one publication, another under review and plans for further publications. The project has also increased our opportunity to collaborate with other institutions on the Gold Coast and across Australia.

Research staff

Name (qualifications)	Position	Interests / specialities
Donald Campbell MBBS, FACEM	Deputy Director, Emergency Department Specialist	Trauma research
Kate Dale BN, MAEmergN, MA, NP	Trauma Program Manager	Trauma research
Andrea Marshall RN, PhD, FACN, FACCCN	Professor of Acute and Complex Care Nursing, Gold Coast Health and Griffith University	Implementation science; nutrition; critical illness and improving outcomes from critical illness
Elizabeth Wake BSC, MN	Research Coordinator	Trauma research
Martin Wullschleger MBBS, MD, PhD, FRACS, FMH, EBSQTrauma	Director	Trauma research

Supervised post-graduate students

Name	Current studies	Research topic
Erick Chan	MD, Griffith University	ROTEM® trauma
Emma Cooper	MD, Bond University	Beach injuries audit
Igor Fomin	MD, Griffith University	ROTEM® trauma
Matt Hedge	Honours, Griffith University	ROTEM® trauma
Debbie Ho	MD, Griffith University	ROTEM® trauma
Susannah Lauer	MD, Griffith University	Systematic review of nutrition in trauma patients
Ian Mackay	MD, Griffith University	ROTEM® trauma
Megan Shuttleworth	PhD, Griffith University	ROTEM® trauma
Melad Syed	MD, Bond University	Beach injuries audit
Kauchik Thungathunthi	MD, Bond University	Beach injuries audit
Julie Wong	MD, Griffith University	Systematic review of nutrition in trauma patients
Woosun You	MD, Griffith University	ROTEM® trauma

Research grants

Investigators	Title	Grant body / scheme	Awarded
M Lu, A Pettit, A Wu, M Wullschleger, H Huang	Additive manufacturing of biodegradable porous polymer scaffolds for bone tissue engineering	University of Queensland Seed Grant, Medical Engineering	\$39,879
J Winearls, D Campbell, L Wake, C Hurn, D Bodnar, G Keijzers, G Ryan, J Presneill, J Furyk, J Paxton, K Walters, M Tallott, M Wullschleger, M Shuttleworth, M Trout, R Ely, S Czuchwicki, J Cohen, S Engelbrecht, J Fraser, J Walsham	FEISTY – Fibrinogen concentrate vs cryoprecipitate in traumatic haemorrhage: A pilot randomised controlled study	See listing Intensive Care Unit	





Research projects

Investigators	Project title
S Bernard, D Campbell, M Wullschleger, J Winearls	PATCH – Prehospital Antifibrinolytics for traumatic coagulopathy and haemorrhage
D Bodnar, L Parker, C Hurn, G Ryan, M Shirran, E Bosley, M Meister, S Rashford, S Williams, M Wullschleger	PROPHIICY – Prevalence of pre hospital injury induced coagulopathy
K Dale, M Wullschleger, D Campbell, G Keijzers	Trauma tertiary survey compliance and missed injury rates after the introduction of a dedicated trauma service at a major trauma centre
R Maguire, M Wullschleger, K Dale, M Jain, L Danielle	Implementation of a trauma service in a major trauma centre. Effects on morbidity and mortality in severe trauma
A Marshall, M Wullschleger, D Pearson, E Wake, S Robert, M Stanley, M Atkin, S Lauer, J Wong	Systematic review of nutrition in trauma patients
A Pearce, A Donohue, M Wullschleger, K Dale, D Campbell, E Wake	A comparison of trauma patients characteristics and outcomes pre and post introduction of the red blanket protocol
V Tsing, J Ng, M Wullschleger	Prevalence and mechanism of urethral injuries in traumatic pelvic fractures
E Wake, K Dale, M Wullschleger, D Campbell, N Bost	An evaluation of a newly established trauma service in a tertiary hospital in South East Queensland
M Wullschleger, J Winearls, B Richards	POLAR – The prophylactic hypothermia trial to lessen traumatic brain injury
M Wullschleger, E Cooper, S Melad, T Kauchik	Beach injuries audit

Women's, Newborn and Children's Services



Dr Doug Shelton
Director

Women's and Newborn Health

The Women's, Newborn and Children's Service has continued to build a research presence through the work of the Centre for Women's and Newborn Research (soon to be known as the Centre for Maternity, Newborn and Families Research). Our research is primarily focused on prevention and aims to support women to have a healthy pregnancy, a healthy labour and birth, followed by a transition to parenthood that promotes confidence and connected infant, family and community relationships.

We work from an individual, group, and systems perspective, where members of our team are investigating concepts such as micro-nutrition and its role in pregnancy outcomes, the effect of oxidative stress on placental functioning and the antecedents of stillbirth, preterm birth, and domestic violence in pregnancy.

Team members also have outstanding research track records and expertise in perinatal mental health, evidence-based models of care, facilitating cultural change, conducting cost-benefit analyses,

and evaluating health service innovations. Exciting research opportunities are also emerging in health facility design with a specific focus on birth and nursery spaces.

Our clinicians, academics and researchers have contributed to more than 70 peer reviewed publications. In addition a number of our clinicians and staff have gained a postgraduate qualification and three new staff have commenced higher degree by research studies.

In 2016, our researchers were involved in the submission of five NHMRC project grants, one centre grant and one large international grant from China. Of these submissions, the NHMRC supported the establishment of the Centre of Excellence in Stillbirth, of which Professor David Ellwood, Professor of Obstetrics and Gynaecology and Director of Maternal Fetal Medicine, is a Chief Investigator. This is a terrific achievement and will be an important project not only for the women and families of the Gold Coast but also in supporting the growth of our research footprint across the service.

Research staff

Name (qualifications)	Position	Interests / specialities
Kathleen Baird PhD	Midwifery and Nursing Education Director, Gold Coast Health Senior Midwifery Lecturer, Griffith University	Domestic and family violence
Pita Birch BMBChB, FRACP	Consultant Neonatologist	Neonatal infection; neonatal respiratory disease and management; neonatal feeding
Hazel Brittain RN, RM, BN, MNLeadership	Director, Nursing-Midwifery	Models of care; workforce
Stacey Davie MBBS, DRANZCOG	Senior House Officer Obstetrics and Gynaecology	Obstetrics; gynaecology; chronic pain
David Ellwood PhD	Director of Maternal-Fetal Medicine Professor of Obstetrics and Gynaecology, Gold Coast Health and Griffith University	Stillbirth; adverse outcomes; models of care
Jennifer Fenwick PhD	Professor of Midwifery, Gold Coast Health and Griffith University	Models of care; women's childbirth expectations including fear of birth; perinatal mental health; birth unit design
Timothy Hong BMedSci, MBBS, FRACT, MClinEpi	Consultant Neonatologist	Neonatology; quality and safety
Bree Lowing RM	Midwife and Research Associate	High risk pregnancy
Christopher Richmond MBBS, BBiomedSc	Paediatric Registrar Advanced Trainee	Paediatrics; neonatology; clinical genetics
Peter Schmidt MBChB, FRACP	Director, Newborn Care Unit Consultant Neonatologist	Effect of the neonatal environment; neonatal developmental care; medical ethics in the NICU
Valerie Slavin MAAdvPrachCRes, BSc Mid, DipHE Mid, RM	Midwife Research Associate	Fear of birth; implementation science
Anne Sneddon MBBS, FRANZCOG	Obstetrician Academic Lead in Obstetrics and Gynaecology, Griffith University	Endometriosis
Olivia Starowicz BMedSc, MBBS	Paediatric Registrar	Paediatric haematology
Graeme Walker MBChB, MRCOG, FRANZCOG, BSc	Director, Gynaecology	Cancer
Sara Woodhouse BSoc&Policy, BAPsych	Social Worker	Social work



Prof David Ellwood



Prof Jennifer Fenwick



Adj Prof Hazel Brittain



Research staff

Adjuncts / Visiting researchers	Position	Interests / specialities
Wendy Chaboyer PhD	Professor of Nursing Griffith University	Wound care
Debra Creedy RN, BA(Hons), MEd, PhD	Professor of Perinatal Mental Health Griffith University	Midwifery; mental health; health psychology
Jenny Gamble PhD, MHRes, BN, DipAppSc-NEd, CertMid, CertN	Professor and Head of Midwifery Griffith University	Midwifery; mental health; primary health care
Liz Jones BAPsych(Hons), PhD	Director, Organisational Psychology Griffith University	Social and organisational psychology; health and community services; family care
Mary Sidebotham PhD, MA, RM, RMGCertAdultEdu	A/Professor of Midwifery Director of Post Graduate Programs School of Nursing and Midwifery, Griffith University	Midwifery
Jocelyn Toohill PhD	Midwifery Lecturer Griffith University	Fear of birth; implementation science

Supervised post-graduate students

Name	Current studies	Research topic
Kobi Best	Honours, University of Queensland	Sensory exposure of neonates in single room environments (SENSE): An observational study of light exposure
	PhD, University of Queensland	Newborn care unit
Anne-Marie Feary	PhD, Griffith University	Exploring parents' experience of seeking physical and emotional closeness to their premature infant within the context of a single family room nursery environment
Janelle McAlpine	PhD, Griffith University	Determinants of nutrition profiles in women of the Gold Coast and their association with reproductive outcomes
Darren Mclean	PhD, Griffith University	Relational coordination – case study in maternity
Bethan Townsend	PhD, Griffith University	Women's expectations and experiences of using water immersion during labour and birth in the context of a previous caesarean section

Research grants

Investigators	Title	Grant body / scheme	Awarded
K Baird, M Sidebotham, L Jones, A Karter	Assessing the validity, authenticity and value of the simulated employment interview formative assessment activity: The views of midwives, midwifery students, midwifery academics and industry stakeholders	Learning and Teaching Research and Scholarship, Griffith University	\$3,900
K Baird	Breaking the silence: Evaluating the midwifery response to domestic and family violence at the Gold Coast University Hospital	New Researcher, Griffith University	\$5,500
K Baird	Domestic violence education and training program for health care professionals	Gold Coast Foundation Education Award	\$3,000
K Baird, D Creedy, J Eustace, A Saito, H Brittain, L O'Brien	Evaluation of an education program for midwives to promote routine antenatal screening for intimate partner violence (IPV) at Gold Coast University Hospital	Metro South Health	\$11,000
E Callander, J Gamble, D Ellwood, V Flenady, J Fenwick, K Sailesh, J Toohill	Health economics of early life and maternal health: Using data linkage to set priorities in tropical Australia	Capacity Building, Australian Institute of Tropical Health and Medicine	\$100,000
W Chaboyer, J Webster, D Ellwood, J Whitty, L Thalib, N Cullum	DRESSING – Negative pressure dressing trial study	NHMRC	\$2,285,351
J Fenwick, M Sidebotham, R Lock	Implementing evidence into practice – evaluation of a unique clinical learning opportunity	Learning and Teaching Research and Scholarship, Griffith University	\$4,800
V Flenady, D Ellwood, P Middleton, J Morris, E Wallace, S Kumar, F Boyle, A Gordon, C East, D Horey	Centre for Research Excellence in Stillbirth	NHMRC	\$2,496,348
J Gamble, J Fenwick, D Creedy, J Toohill, K Richards	Translating research into practice: Improving childbearing women's emotional wellbeing (MIPP –Midwives implementing psycho-education in practice)	Nursing and Midwifery Fellowship, Queensland Health	\$120,000
J Toohill, J Fenwick, M Sidebotham, J Gamble, D Creedy	A mixed methods pilot study to identify enablers and barriers to the Queensland state-wide normal birth clinical guideline	Health Projects International	\$4,500



Awards and achievements

Award	Event	Recipient
Empowering People Award	Golden Gala Awards GCHHS	Hazel Brittain
Midwifery Leadership	Australian College of Midwives	Hazel Brittain
Churchill Fellowship	Churchill Trust Australia	Hazel Brittain
Trainee Research Excellence Award	The Royal Australasian College of Physicians	Christopher Richmond
People's Choice Award	Improvers Program, Gold Coast Health for the project: Develop an app that takes a patient step-by-step through the journey from their initial appointment to subsequent investigations to theatre and possible outcomes that theatre might bring.	Graeme Walker, Hilary Walker, Maree McGregor

Research projects

Investigators	Project title
K Baird, A Ewens	Response to domestic and family violence
S Davie, T Fleming, B Gilsenan, Y Hamilton	Management of ectopic pregnancy at Gold Coast University Hospital
S Davie, G Walker	Sleep quality and endometriosis: A case-control pilot study
J Fenwick, J Gamble, H Brittain, A Sneddon	Birth outcomes: Private practice midwives at GCUH
V Flenady, D Ellwood, P Middleton, J Morris, E Wallace, S Kumar, F Boyle, A Gordon, C East, D Horey	My baby's movements: A stepped wedged cluster randomised trial of maternal awareness and reporting of decreased fetal movements to reduce stillbirth
C Richmond, P Birch	FIBRE – Feeding interventions because of respiratory events
O Starowicz	Calibration of the Kejian KJ-8000 Transcutaneous Bilirubinometer in term and preterm infants of varying ethnicity in the newborn care unit of Gold Coast University Hospital

Children's Health

Paediatric research is continuing to expand at Gold Coast. Fetal Alcohol Spectrum Disorder (FASD) has been a key focus with Dr Doug Shelton and his team receiving a Queensland Health Award for Excellence in 2016 for their nationally respected Neurodevelopmental Exposure Disorder Service. The team also won a large grant for further interdisciplinary research in this area.

Due to diverse disciplines involved in paediatric research and staff employed under all divisions, the Gold Coast Health Children's Research Collaborative was formed in 2016. The aim of this cross-divisional collaborative is to link health professionals engaging in, or interested in engaging in paediatric research in Gold Coast Health by providing a forum for communication, networking, collaboration on projects, information sharing about paediatric grant opportunities and research support for young researchers and clinicians from critical care, medical, nursing and allied health across the hospital-community continuum of care.

Examples of research include:

- Multi-site studies as part of the international PREDICT collaborative under the coordination of Dr Shane George from the Department of Emergency Medicine.
- Multi-site studies investigating feeding difficulties and undernutrition in children with cerebral palsy, led by Dr Kelly Weir. This research is being undertaken in collaboration with the Children's Nutrition Research Centre at the University of Queensland.
- A collaborative study with the Sunshine Coast Hospital and Health Service investigating the use of telehealth to support the provision of a paediatric videofluoroscopic swallow study clinic to improve outcomes for children with oropharyngeal dysphagia.

Research staff

Name (qualifications)	Position	Interests / specialities
Sarah Brown	CNC: Children's Critical Care Unit	Paediatric critical care
Anna Creevy	Nursing Unit Manager, Paediatrics	Paediatrics
Kim LeGros BAppScAppPsych, GDipAppScAppPsych, ClinMAppPsych	Assistant Director of Psychology (CDS)	Childhood anxiety, obesity, adolescent diabetes/psychological wellbeing; parental emotional availability and attachment
Susan Moloney MBBS, FRACP	Director of Paediatrics	Paediatrics; respiratory diseases; community child health
Phil Sargent MBBS, FRACP	Director, Children's Critical Care Unit	Paediatric critical care
Doug Shelton MBBS, DipPaed, FRACP, Churchill Fellow	Director of Community Child Health; Medical Director of Women's Newborns and Children's Health	FASD; child development; child mental health



Supervised post-graduate students

Name	Current studies	Research topic
Natasha Reid	PhD, Griffith University	Improving outcomes for children with FASD

Awards and achievements

Award	Event	Recipient
Neurodevelopmental Exposure Disorder Service	2016 Queensland Health Awards for Excellence	Doug Shelton

Research grants

Investigators	Title	Grant body / scheme	Awarded
S Dawe, D Shelton, P Harnett, L Burns	Improving the lives of children with FASD and their families	Department of Health, Drug and Alcohol Program	\$145,254

Research projects

Investigators	Project title
K Chamberlain, N Reid, J Warner, D Shelton, S Dawe	A qualitative evaluation of caregivers' experiences, understanding and outcomes following diagnosis of FASD
N Reid, S Dawe, P Harnett, D Shelton, L Hutton, F O'Callaghan	Feasibility study of a family-focused intervention to improve outcomes for children with FASD
N Reid, P Harnett, F O'Callaghan, D Shelton, M Wyllie, S Dawe	Physiological self-regulation and mindfulness in children with an FASD diagnosis
N Reid, D Shelton, J Warner, F O'Callaghan, S Dawe	Profile of children diagnosed with FASD: A retrospective chart review
D Shelton, A Montag	Feasibility of determining prenatal alcohol exposure from deciduous teeth
D Shelton, L Moxon-Lester, A Montag, M Tarsa, T Chambers	Prevalence of alcohol-exposed pregnancy among women receiving prenatal care in San Diego County and Queensland, Australia

Centre for Health Innovation



Prof Martin Connor
Executive Director

Gold Coast Health identified a need for major changes in the way health care is managed on the Gold Coast and engaged Griffith University, Gold Coast Primary Health Network and Queensland Health in developing a new model of care. This model, referred to as the Gold Coast Integrated Care (GCIC) program, is focused on the primary care sector to evaluate cost effective solutions for the holistic management of high-risk patients, such as the elderly and those with chronic, complex and comorbid conditions.

The patient-centred model has brought together multi-professional teams within Gold Coast Health, general practice and community based teams to produce a single system that can minimise duplication and maximise care coordination for about 25% of the Gold Coast population. A coordination centre was established in March 2015 for a three-year pilot phase.

The goal is to produce the best patient outcomes at no additional cost to Gold Coast Health patients with chronic and complex conditions, through improved support of general practitioners in managing patients with these conditions. Specifically, the GCIC program aims to:

- Reduce overall costs to the health service for patients with high risk complex and comorbid conditions

- Reduce potentially avoidable admissions to hospital and improve clinical service delivery according to guidelines
- Improve access to appropriate and timely health and community care services
- Improve patient health outcomes, experience and satisfaction with care; and staff experience and satisfaction.

To date, GCIC have recruited 1,500 patients in the intervention group and 3,000 matched GCH patients (passive group) to track hospital utilisation, as well as 750 consenting patients (active group) randomly selected from the passive cohort. Recruitment continues and partnerships have been formed with staff specialists to develop research projects. GCIC continues to foster research alliances with external groups such as the University of Queensland Chronic Kidney Disease Centre for Research Excellence. Two GCIC staff are enrolled in PhD programs and the program has four peer reviewed publications in international journals, one under review and several in the production stage.

A program evaluation, supported by funding from the Commonwealth Department of Health, is being undertaken through the Centre for Applied Health Economics at Griffith University to determine the effectiveness and costs of the new model of care.

Research staff

Name (qualifications)	Position	Interests / specialities
Martin Connor PGDip, NVQ IV HServMgt, PhD	Executive Director	Health services management; primary care; integrated delivery systems
Leanne McGregor BPsych(Hons), PhD	Senior Research Assistant	Chronic disease and health
Anne McMurray AM, RN, PhD	Principal Research Fellow	Community and family health
Haitham Tuffaha BPharm, MBA, MScClinPharm, PhD HEC	Senior Research Fellow	Economic evaluation; decision making; value of research
Lauren Ward BHSC(NutMed), MPH	Research Manager	Chronic disease and health
Rachel Yang BA, MNutrDiet, MPH, CertIV	Research Assistant	Chronic disease and health

Supervised post-graduate students

Name	Current studies	Research topic
Fatma Maraiki	Fresenius University of Applied Sciences	Health Economics
Darren McLean	MRes, Griffith University	Relational coordination: A case study of maternity care
Matthew Percival	PhD, University of Queensland	Exploring the impact of a community based pharmacist in patients with chronic disease, within an Integrated Care Program
Jennifer Wrightson	PhD, Murdoch University	Low risk women's perceptions of the influences on their decision-making regarding induction of labour

Awards and achievements

Award	Event	Recipient
Griffith University Vice Chancellor Research Excellence Award, Excellence of a research Group or Team	Griffith University Awards, 2016	GCIC and Centre for Applied Health Economics Team, Griffith University
Best AusHSI Funded Health Services Research	The Australian Centre for Health Services Innovation, 2015	Haitham Tuffaha

Research grants


Investigators	Title	Grant body / scheme	Awarded
L Gordon, H Tuffaha, R James, P Scuffham	The economic evaluation of healthcare services for prostate cancer in Australia	Prostate Cancer Foundation of Australia	\$180,000
P Scuffham, M Connor	Evaluation of cost-effectiveness of the Gold Coast Integrated Care pilot program for patients with chronic disease: A pragmatic non-randomised controlled clinical trial	Department of Health, Workforce Redesign Programme	\$1,000,000
H Tuffaha	Cost-effectiveness analysis of nursing interventions for hospitalised patients	The National Centre for Research Excellence in Nursing	\$100,000
H Tuffaha, J Byrnes, S Kularatna	Estimating value of information measures from systematic reviews and meta-analyses	Griffith University	\$5,000



Publications

Journal articles

1. Abbott, J., Teleni, L., McKavanagh, D., Watson, J., McCarthy, A. L., & Isenring, E. (2016). Patient-generated subjective global assessment short form (PG-SGA SF) is a valid screening tool in chemotherapy outpatients. *Supportive Care in Cancer*, 24(9), 3883-3887.
2. Abdel-Malek, L., Peters, P., & Lun, K. (2015). Use of adhesive retention tapes to anchor surface sutures in random pattern flaps: Designs, plans and options. *Australasian Journal of Dermatology*, 56, 19-20.
3. Amos, A. J. (2016). Rhetorical flourishes do not justify replacing categorical diagnosis of personality disorders. *Australian and NewZealand Journal of Psychiatry*, 50(11), 119-127.
4. Arnold, D. L., Fisher, E., Brinar, V. V., Cohen, J. A., Coles, A. J., Giovannoni, G., Hartung, H. P., Havrdova, E., Selmaj, K. W., Stojanovic, M., Weiner, H. L., Lake, S. L., Margolin, D. H., Thomas, D. R., Panzara, M. A., Compston, D. A., & CARE-MS I and CARE-MS II Investigators [includes Broadley, S.] (2016). Superior MRI outcomes with alemtuzumab compared with subcutaneous interferon β -1a in MS. *Neurology*, 87(14), 1464-1472.
5. Bacon, R., Williams, L., Grealish, L., & Jamieson, M. (2015). Credible and defensible assessment of entry-level clinical competence: Insights from a modified Delphi study. *Focus on Health Professional Education*, 16(3), 57.
6. Bail, K., & Grealish, L. (2016). 'Failure to maintain': A theoretical proposition for a new quality indicator of nurse care rationing for complex older people in hospital. *International Journal of Nursing Studies*, 63, 146-161.
7. Baird, K. (2015). Women's lived experiences of domestic violence during pregnancy (1). *Practicing Midwife*, 18(3), 27-31.
8. Baird, K. (2015). Women's lived experiences of domestic violence during pregnancy (2). *Practicing Midwife*, 18(9), 37-40.
9. Baird, K. (2015). Primary care professionals and abused women have differing awareness of domestic abuse: A new framework may help facilitate discussions. *Evidence-Based Nursing*, 18(3), 88.
10. Baird, K. (2016). Midwifery: Midwives empowered through domestic violence training. *Queensland Nurse*, 35(1), 34-35.
11. Baird, K., Creedy, D., & Mitchell, T. (2016). Intimate partner violence and pregnancy intentions: A qualitative study. *Journal of Clinical Nursing*. doi:10.1111/jocn.13394
12. Baird, K., & Gamble, J. (2016). Domestic violence - midwives can make a difference. *Australian Midwifery News*, 16(1), 55-56.
13. Baird, K., Gamble, J., & Sidebotham, M. (2016). Assessment of the quality and applicability of an e-portfolio capstone assessment item within a Bachelor of Midwifery program. *Nurse Education in Practice*, 20, 11-16.
14. Baird, K. M., Saito, A. S., Eustace, J., & Creedy, D. K. (2015). An exploration of Australian midwives' knowledge of intimate partner violence against women during pregnancy. *Women Birth*, 28(3), 215-220.
15. Balakrishnamoorthy, R., Horgan, I., Perez, S., Steele, M. C., & Keijzers, G. B. (2015). Does a single dose of intravenous dexamethasone reduce symptoms in emergency department patients with low back pain and radiculopathy (SEBRA)? A double-blind randomised controlled trial. *Emergency Medicine Journal*, 32(7), 525-530.
16. Balmain, B. N., Jay, O., Sabapathy, S., Royston, D., Stewart, G. M., Jayasinghe, R., & Morris, N. R. (2016). Altered thermoregulatory responses in heart failure patients exercising in the heat. *Physiological Reports*, 4(21).

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17. Bandaralage, S. P., Farnaghi, S., Dulhunty, J. M., & Kothari, A. (2016). Antenatal and postnatal radiologic diagnosis of holocarboxylase synthetase deficiency: A systematic review. *Pediatric Radiology*, 46(3), 357-364.

 18. Baptista, N. M., Christensen, K. D., Carere, D. A., Broadley, S. A., Roberts, J. S., & Green, R. C. (2016). Adopting genetics: Motivations and outcomes of personal genomic testing in adult adoptees. *Genetics in Medicine*, 18(9), 924-932.

 19. Barton, M. J., Johnston, A., & Todorovic, M. (2016). Cadaver-based anatomy for nurses: A real learning experience. *Australian Nursing and Midwifery Journal*, 24(3), 41.

 20. Bayes, S., Fenwick, J., & Jennings, D. (2016). Readiness for practice change: Evaluation of a tool for the Australian midwifery context. *Women Birth*, 29(3), 240-244.

 21. Bellinge, J., Herath, S., & Sonigra, D. (2016). Sodium valproate exacerbating an underlying disorder of fatty acid metabolism. *Case Reports in Neurology*, 8(3), 185-192.

 22. Betts, A., & Sinclair, A. (2016). Application of energy conservation techniques to activities of daily living within a pulmonary rehabilitation program. *Respirology*, 21, 141.

 23. Binder, M. D., Fox, A. D., Merlo, D., Johnson, L. J., Giuffrida, L., Calvert, S. E., Akkermann, R., Ma, G. Z., Perera, A. A., Gresle, M. M., Laverick, L., Foo, G., Fabis-Pedrini, M. J., Spelman, T., Jordan, M. A., Baxter, A. G., Foote, S., Butzkueven, H., Kilpatrick, T. J., & Field, J. (2016). Common and low frequency variants in MERTK are independently associated with multiple sclerosis susceptibility with discordant association dependent upon HLA-DRB1*15:01 status. *PLoS Genetics*, 12(3).

 24. Bindra, R., & Colantoni Woodside, J. (2015). Treatment of proximal interphalangeal joint fracture-dislocations. *JBJS Reviews*, 3(12).

 25. Blacklock, C., Goncalves Bradley, D. C., Mickan, S., Willcox, M., Roberts, N., Bergstrom, A., & Mant, D. (2016). Impact of contextual factors on the effect of interventions to improve health worker performance in Sub-Saharan Africa: Review of randomised clinical trials. *PloS One*, 11(1).

 26. Blyth, C., Bost, N., & Shiels, S. (2016). Impact of an education session on clinical handover between medical shifts in an emergency department: A pilot study. *Emergency Medicine Australasia*. doi:10.1111/1742-6723.12717

 27. Boyle, R. J., Tang, M. L. K., Chiang, W. C., Chua, M. C., Ismail, I., Nauta, A., Hourihane, J. O., Smith, P., Gold, M., Ziegler, J., Peake, J., Quinn, P., Rao, R., Brown, N., Rijniere, A., Garssen, J., & Warner, J. O. (2016). Prebiotic-supplemented partially hydrolysed cow's milk formula for the prevention of eczema in high-risk infants: A randomised controlled trial. *Allergy: European Journal of Allergy and Clinical Immunology*, 71(5), 701- 710.

 28. Brandis, S., Fisher, R., McPhail, R., Rice, J., Eljiz, K., Fitzgerald, A., Gapp, R., & Marshall, A. (2016). Hospital employees' perceptions of fairness and job satisfaction at a time of transformational change. *Australian Health Review*, 40(3), 292- 298.

 29. Brazil, V., & Carley, S. (2016). Does the new fellowship examination format ensure a sufficient standard for FACEMs? No. *Emergency Medicine Australasia*, 28(2), 238-239.

 30. Brenu, E. W., Broadley, S., Nguyen, T., Johnston, S., Ramos, S., Staines, D., & Marshall-Gradisnik, S. (2016). A preliminary comparative assessment of the role of CD8+ T cells in chronic fatigue syndrome/myalgic encephalomyelitis and multiple sclerosis. *Journal of Immunology Research*. doi:10.1155/2016/9064529

 31. Brocket, J., & Shaban, R. Z. (2015). Characteristics of a successful hospital hand hygiene program: An Australian perspective. *Healthcare Infection*, 20(3), 101-107.

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 33. Brown, C., Shaw, J., & Armit, L. (2016). Education initiatives in graduate transition. *Australian Nursing and Midwifery Journal*, 24(4), 37.

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34. Brown, S. G., Ball, E. L., Perrin, K., Read, C. A., Asha, S. E., Beasley, R., Egerton-Warburton, D., Jones, P. G., Keijzers, G., Kinneer, F. B., Kwan, B. C., Lee, Y. C., Smith, J. A., Summers, Q. A., & Simpson, G. (2016). Study protocol for a randomised controlled trial of invasive versus conservative management of primary spontaneous pneumothorax. *BMJ Open*, 6(9).

 35. Bucknall, T. K., Hutchinson, A. M., Botti, M., McTier, L., Rawson, H., Hewitt, N. A., McMurray, A., Marshall, A. P., Gillespie, B. M., & Chaboyer, W. (2016). Engaging patients and families in communication across transitions of care: An integrative review protocol. *Journal of Advanced Nursing*, 72(7), 1689-1700.

 36. Button, B. M., Wilson, C., Dentice, R., Cox, N. S., Middleton, A., Tannenbaum, E., Bishop, J., Cobb, R., Burton, K., Wood, M., Moran, F., Black, R., Bowen, S., Day, R., Depiazzi, J., Doiron, K., Doumit, M., Dwyer, T., Elliot, A., Fuller, L., Hall, K., Hutchins, M., Kerr, M., Lee, A. L., Mans, C., O'Connor, L., Steward, R., Potter, A., Rasekaba, T., Scoones, R., Tarrant, B., Ward, N., West, S., White, D., Wilson, L., Wood, J., & Holland, A. E. (2016). Physiotherapy for cystic fibrosis in Australia and New Zealand: A clinical practice guideline. *Respirology*, 21(4), 656-667.

 37. Buzacott, K., Townell, N., Dettrick, A., & Grimwood, K. (2016). Saksenaee subcutaneous abscess in an immunocompetent child. *Pediatric Infectious Disease Journal*, 35(1), 120.

 38. Cannon, D., Buys, N., Sriram, K. B., Sharma, S., Morris, N., & Sun, J. (2016). The effects of chronic obstructive pulmonary disease self-management interventions on improvement of quality of life in COPD patients: A meta-analysis. *Respiratory Medicine*, 121, 81-90.

 39. Cannon, S., Lawry, K., Brudell, M., Rees, R., Wenke, R., & Bisset, L. (2016). Appetite for change: A multidisciplinary team approach to behavioral modification for weight management in a community health group setting. *Eating and Weight Disorders: EWD*, 21(4), 661-668.

 40. Carter, A. G., Creedy, D. K., & Sidebotham, M. (2016). Development and psychometric testing of the Carter Assessment of Critical Thinking in Midwifery (preceptor/mentor version). *Midwifery*, 34, 141-149.

 41. Carter, A. G., Creedy, D. K., & Sidebotham, M. (2016). Efficacy of teaching methods used to develop critical thinking in nursing and midwifery undergraduate students: A systematic review of the literature. *Nurse Education Today*, 40, 209- 218.

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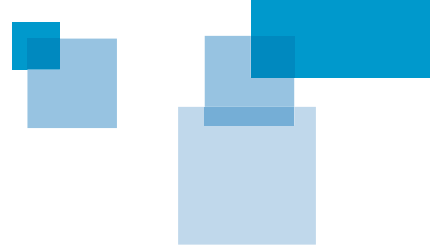


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Books

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Book chapters

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Public Health Act Reporting

In certain circumstances it is justifiable to grant a waiver of consent, as opposed to obtaining informed consent from research participants. Conditions are outlined in Section 2.3.10 of the *National Statement on Ethical Conduct in Human Research 2007* (updated May, 2015). Under section 2.3.12 “it is the responsibility of each institution to make publically accessible summary descriptions of all research projects for which consent has been waived”.

Projects with waived consent

- Ankle Fracture Management using Smartphone MMS Imaging
- An audit of whiplash injuries in the emergency department
- Australia and New Zealand Pulmonary Hypertension Patient Registry
- Bacteriology of Community Acquired Musculoskeletal Infections
- Complications for immediate vs delayed breast reconstruction post mastectomy
- Conservative management of acute, uncomplicated diverticulitis
- CVC KT Study - Central Venous Catheter Knowledge Translation Study
- Dementia Discharge Processes Project
- Determinants of nutrition profiles in Gold Coast women
- ECG in AECOPD - Electrocardiographic Changes in Patients Admitted to Hospital with an Acute Exacerbation of Chronic Obstructive Pulmonary Disease
- Evaluating the Implementation of Maudsley Family Based Treatment (FBT) into Child and Youth Mental Health Service
- FEISTY - Fibrinogen Early In Severe Trauma study
- Gentamicin use in the Intensive Care
- Global Surg-II surgical site infections
- Global Longitudinal Assessment of Treatment Outcomes in Squamous Cell
- Health care at the Gold Coast marathon
- Health Data Processing Service
- Histological margin clearance in periocular skin malignancies removed
- Incidence and mechanisms of bladder injuries in traumatic pelvic fracture
- Incidence and mechanisms of urethral injuries in traumatic pelvic fracture
- Investigating the Usefulness of a Nutrition App in Practice
- Kite Surfing Injuries in Queensland – Retrospective Review
- Missed Organ Donation Opportunities in Queensland
- Music During Pleural Procedures
- Nutritional care of cardiac patients (part 2)
- Opioid Treatment Program (OTP)
- Outcomes following Surgical Treatment of Apical Vaginal Prolapse
- Plain abdominal radiography in the setting of emergency medicine.
- A Retrospective Study of Clinical Presentation, Outcome and Prognosis in Pneumococcal Pneumonia: Experience from the Gold Coast Health District
- Review of management of Empyema at Gold Coast Hospital and Health Service
- Role of Ki67 testing in adjuvant therapy recommendations for early breast cancer
- Respiratory Syncytial Virus seasonality in Queensland
- Sensitivity of using limited MRI prostate sequences
- TExture modified DiEts in Dysphagia: The inTEnDED study
- The Australian Appendicectomy Audit
- The ETOH project - Evaluating The Impact Of Alcohol on emergency department presentations
- The use of oncoplastic flap techniques is associated with reduced rate of re-excision
- Traumatic brain injury in older people

Glossary of terms

AODS	Alcohol and Other Drugs
ACIPC	Australasian College for Infection Prevention and Control
ALLG	Australasian Leukaemia and Lymphoma Group
ANZICS	Australian and New Zealand Intensive Care Society
ANZTBRCRS	Australian and New Zealand Training Board in Colon and Rectal Surgery
BCCA	Bi-National Colorectal Cancer Audit
BEEPRS	Building Efficient and Equitable Pathways to and through Rehabilitation in Stroke
CASS	Cancer Access and Support Services
CYMHS	Child, Youth and Young Adult Mental Health Service
COPD	Chronic Obstructive Pulmonary Disease
CLP	Consultation Liaison Psychiatry
DEMS	Diagnostic, Emergency and Medical Services
MD	Doctor of Medicine
ED	Emergency Department
ECR	Endovascular Clot Retrieval
ECTRIMS	European Committee for Treatment and Research in Multiple Sclerosis
EBP	Evidence Based Practice
FASD	Fetal Alcohol Spectrum Disorder
FDA	Food and Drug Administration
GCIC	Gold Coast Integrated Care
GCUH	Gold Coast University Hospital
HIIRO	Health Innovation, Investment and Research Office
HREC	Human Research Ethics Committee
ICU	Intensive Care Unit
MEU	Medical Education Unit
MHSS	Mental Health and Specialist Services
NHMRC	National Health and Medical Research Council
OT	Occupational Therapy
ORGD	Office for Research Governance and Development
PTB	Pass the Baton
RACP	Royal Australian College of Physicians
SLIR	Severe Limb Ischaemia Registry
SSA	Site Specific Application
SaPS	Specialty and Procedural Services
SRAC	Strategic Research Advisory Committee

Acknowledgements

The Executive Director of Clinical Governance and Research would like to acknowledge the efforts of Gold Coast Health staff towards the development of the Research Review July 2015 to December 2016.

This includes:

- Office for Research Governance and Development staff
- Clinical and Research staff
- Medical and Service Directors
- Communication and Engagement Unit
- Gold Coast Health Library staff
- Research Committee of the Board and the Board Secretariat
- Research Council



From the Gold Coast Hospital Foundation

Established in 1994, the Gold Coast Hospital Foundation helped more than 180,000 community members in distress from accidents and illness during the 2015-16 financial year.

With the continued support of generous individuals and businesses in the community, the Foundation raises vital funds to help more than 20 public health facilities and hospitals on the Gold Coast deliver the very best care for patients and their families. These local health facilities include the Gold Coast University Hospital, Robina Hospital and community health centres.

In the past year, the Foundation purchased more than 100 vital pieces of specialist medical equipment; funded training for 220 Gold Coast Health staff; awarded eight nursing and midwifery scholarships; enhanced patient facilities in six hospital wards; and delivered more than 500 toys and gifts to young patients in need. In 2016 the Foundation also funded and coordinated Gold Coast Health's Golden Gala Awards night, lending its support to Gold Coast Health staff and celebrating the extraordinary care available to the Gold Coast community.

The Foundation purchases lifesaving medical equipment, funds and facilitates health staff education and funds local medical research.

Donations to the Gold Coast Hospital Foundation have a direct impact on Gold Coast community projects, with all funds raised by the Foundation staying in Gold Coast public health care. Chances are you or someone you know will benefit from the vital work the Foundation delivers.

You can help support Gold Coast Hospital Foundation by making a donation online at www.gchfoundation.org.au or by calling (07) 5594 6986.

**Mrs Kim Sutton
Chief Executive Officer
Gold Coast Hospital Foundation**



